



Next Meeting: **Tuesday Sept. 22, 2013**
TOUR
SOUTH WEST DETENTION CENTRE (WINDSOR JAIL)
WINDSOR, ONTARIO

Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca

FUTURE MEETINGS:

Oct. 03, 2013	Sutton Creek Golf Club	Oct. 22, 2013	Tour—Ciociaro Club
Nov. 19, 2013	Distinguished Lecturer—TBA	Dec. 10, 2013	Christmas Social - KEG Downtown
Jan. 21, 2014	Lilly Kazzilly's	Feb. 18, 2014	Lilly Kazzilly's
Mar. 19, 2014	Distinguished Lecturer—TBA	April. 22, 2014	Lilly Kazzilly's
May 21, 2014	Beach Grove Golf Course		

CHAPTER OFFICERS & BOARD OF GOVERNORS

President:	Dan Castellan	(519) 253 3000
President-Elect:	Sara Palmer	(519) 817 9208
Treasurer:	James Smith	(519) 971 0005
Secretary:	Nathan Cook	(519) 971 0005
Past-President:	James Smith	(519) 971 0005
Board of Governors	Bill Davies	(519) 250 2355
Board of Governors	Patrick Castellucci	519) 250 2006

BOARD OF GOVERNORS

Gord Snell	519) 649 1700
Jamie Smith	519) 890 8684
Jeff Cowling	(519) 972 2727, x 4086
Steve Koutsonicolas	(519) 999 9954
Dr. David Ting	(519) 253 3000, x 2599
Jon Palmer	(519) 819 7805
Andrew Hrutka	(519) 969 8025

CHAPTER COMMITTEE'S:

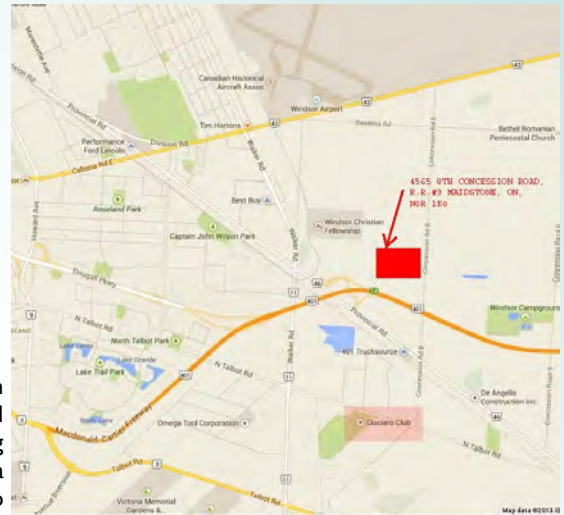
Resource Promotion:	James Smith	(519) 971 0005	Fac. Adviser-U of W Student Chapter	Dr. David Ting	(519) 253 3000, x 2599
Membership:	Nathan Cook	519) 971 0005	Reception:	Patrick Castellucci	(519) 250 2006
Technology Transfer (CTTC)	Jon Palmer	(519) 819 7805	Student Activities	Jeff Cowling	(519) 972 2727, x 4086
Historian:	Gord Snell	(519) 649 1700	Newsletter:	Dan Castellan	(519) 253 3000, x
Fac. Adviser-St. Clair College Student Chapter	Jeff Cowling	(519) 972 2727, x 4086	Chapter Grassroots Government Activities (CGGAC)	Bill Davies	(519) 250 2355
CCTC-Refrigeration	Jon Palmer	(519) 819 7805	Chapter Young Engineers in ASHRAE (YEA)	Jamie Smith	519) 890 8684



TOUR OF SOUTH WEST DETENTION CENTRE (WINDSOR JAIL)

4565 8TH CONCESSION ROAD, R.R.#3
MAIDSTONE, ON, N0R 1K0

TUESDAY OCTOBER 21, 2013



Construction of the South West Detention Centre, which was announced on September 26, 2008 by the Ministry of Community Safety and Correctional Services, supports the Ontario government's commitment to safe, strong communities. Construction of the new 315-bed facility will ensure we have a new facility ready to help meet our current and future capacity needs and to resolve issues regarding overcrowding at the aging Windsor Jail. The South West Detention Centre will:

- Maintain the highest of security standards, with state-of-the-art technology
- Reduce inmate overcrowding in Windsor and Essex County
- Reflect sound correctional practices in a functional, maximum security working environment

**OUR TOUR WILL COMMENCE AT 5:30 PM AND WE WILL MEET AT THE FRONT
ENTRANCE. ALL GUESTS WILL BE REQUIRED TO SIGN IN WITH SECURITY
IN THE MAIN LOBBY.**

**NOTE - TOUR IS LIMITED TO THE FIRST 20 WINDSOR CHAPTER MEMBERS WHO
RSVP. NON-CHAPTER MEMBERS WILL BE CONSIDERED IF SPACE PERMITS.
ALL OTHERS CAN MEET FOR DINNER AND TECHNICAL TALK AFTER THE TOUR
AT 7:00 PM AT THE CIOCIARO CLUB**

PLEASE RSVP TO NATHAN.COOK@JASEL.CA BY THE END OF TODAY.

**COST - \$40.00 CHAPTER MEMBERS
\$50.00 NON - CHAPTER MEMBERS**

Nov. 19, 2013 - Distinguished Lecture Meeting

TUESDAY NOVEMBER 19, 2013

(More details to follow)



SHEILA J. HAYTER, P.E., FASHRAE

National Renewable Energy Laboratory
Integrated Applications Center
Golden, Colorado

Sheila Hayter is the Project Assessment and Development Section Manager within the Integrated Applications Center (IAC) of the U.S. Department of Energy's (DOE) National Renewable Energy Laboratory (NREL) in Golden, Colorado. In this capacity, she leads a team of technical and policy experts who support federal, state, and local entities on energy efficiency (EE) and renewable energy (RE) topics with the goal to make significant reductions in non-renewable energy consumption through energy efficiency and increased use of RE technologies. Sheila's work includes serving as the IAC partnership development lead and managing key accounts for the IAC and NREL, including serving as the NREL Key Account Manager for the U.S. Department of Homeland Security. Sheila's past activities include leading DOE's Solar America Cities technical assistance activities for Boston and New York City, with the goal to assist these municipalities incorporate strategies into policies, procedures, and specific projects that will result in widespread application of solar technologies. Since joining NREL in 1992, Sheila's work has included serving on the Organizing Committee and leading the subjective judging component of the 2002, 2005, and 2007 DOE Solar Decathlons, managing sustainable buildings activities funded by the DOE Federal Energy Management Program, managing the Photovoltaics (PV) for Buildings activities funded by the DOE Solar Program, evaluating building performance during the design and monitoring phases to support the DOE High Performance Buildings Program, and writing papers, giving conference presentations, and developing/giving training related to high-performance buildings. Sheila is registered professional engineer in the State of Colorado.

Sheila served on the ASHRAE Board of Directors as a vice president (2009 – 2011) and also as a Director at Large (2005 – 2008). She chaired the Publications and Education Council, has served on Technology Council, Finance Committee, Planning Committee Society Rules Committee, Research Activities Committee (chair 2004 – 2005), Continuing Education Committee (chair 1998 – 1999), and ASHRAE Program Committee. She chaired the Greening ASHRAE Meetings and Exposition presidential ad hoc committee (2006 – 2008), and was a member of the Building Energy Labeling, ASHRAE Logo, Globalization Roadmap, and Strategic Plan IV ad hoc committees as well as served as a member of the Advance Energy Design Guide Steering Committee. In addition, Sheila has served in leadership roles of many technical committees.

Sheila received a 2007 NREL Staff Award for outstanding performance, 2007 Professional Progress Award from Kansas State University's College of Engineering, and an ASHRAE Technology Award in 1999. She received the ASHRAE Distinguished Service Award in 2001 and the Exceptional Service Award in 2011 and was named an ASHRAE Fellow in 2008.

LECTURE TOPIC

Integrating Renewable Energy Systems into Buildings

This presentation introduces technical opportunities, means, and methods for incorporating renewable energy (RE) technologies into building designs and operations. The speaker will give an overview of RE resources and available technologies used successfully in the USA to offset building electrical and thermal energy loads. Methods for applying these technologies in buildings and the role of building energy efficiency in successful RE projects will be addressed. The speaker will discuss issues related to connecting RE systems to existing electrical grids and offer tips for implementing successful RE projects. Finally, the speaker will summarize ASHRAE activities related to and/or in support of RE applications in buildings.

CHAPTER REGIONAL CONFERENCE TORONTO August 2013



ASHRAE's Solar Essex Energy PV Project Tour



ASHRAE Group visiting the Vollmer Complex Rooftop for a look at the PV Panel Installation

July 31, 2013 – The ASHRAE University of Windsor Student Branch visited the Vollmer Complex in LaSalle, Ontario for a tour of the newly installed Solar PV Panel array installed on the roof of the structure. The panels consist of two separate arrays with the second being installed and turned on the morning of the tour. Steve Ray guided the group through the complex exhibiting the massive panel array, inverters, combiners and transformers that complete the green energy solution and transfer the power into the grid, offsetting the complex's power demand.

"The tour provided an invaluable insight to the simple yet complex operation of green energy solutions. The visit, hosted by Steve Ray, was very informative and provided a simple introduction into the green technology"

Chris Cvetkovski
- University of Windsor Student Chapter President



Steve Ray, Fama Fouladi, Mojtaba Ahmadi Baloutaki, Christopher Cvetkovski, Brian Cheung (Left to Right) on the roof of the Vollmer Complex at the PV Project Tour

ASHRAE Upcoming Events

Windsor Rubber Processing Ltd. Tour

Hosted by the private company located on 1601 Kildare, ASHRAE will get an exclusive inside look at the inner workings of old tire and miscellaneous rubber recycling and how the green process better serves the community and reuses this common material.

- Sept. 18th 3PM (RSVP by Sept. 16th)

ASHARE 101: Discover ASHRAE

Student Branch's President Christopher Cvetkovski plans to give a Discover ASHARE talk to Dr. Pusca's first year class.

- Sept. 11, 2013 @ Toldo 200 @ 1:25PM.



Christopher Cvetkovski and Jamie Smith give Discover ASHRAE Talk to Dr. Ting's third year Mechanical Engineering Class at close of last academic year.

ASHRAE University of Windsor Student Branch Executives 2013/2014

Christopher Cvetkovski <i>President</i>	cvetkovc@uwindsor.ca
Fama Fouladi <i>Vice-President</i>	fouladi@uwindsor.ca
Ahmad Vassel Be Hagh <i>Treasurer</i>	vaselb@uwindsor.ca
Farid Bahiraei <i>Secretary</i>	bahirae@uwindsor.ca
Dr. David S.-K. Ting <i>Faculty Advisor</i>	dting@uwindsor.ca

Contact an Executive for further information on planned events and activities as well as administrative questions regarding ASHRAE

ASHRAE's Windsor Rubber Processing Tour



ASHRAE Group visiting the Windsor Rubber Processing Facility.

September 30th, 2013 – The ASHRAE University of Windsor Student Branch visited the Windsor Rubber Processing Plant to look at the very intriguing world of tire recycling. The group was small but they took full advantage of the opportunity to provide the small start-up recycling firm with ideas on possible research collaborations with U of Windsor to move the firm forward.

"The tour provided a valuable insight to the simple yet complex operation of tire recycling. The visit, hosted by Joe Fontana, was very informative and provided a foundation to a possible future research partnership"

Chris Cvetkovski
- University of Windsor Student Chapter President



Mateus De Rocha, Chris Cvetkovski, Joe Fontana
(Left to Right) in the Meeting Room of Windsor Rubber Processing Ltd.

ASHRAE Upcoming Events Notice

ASHARE 101: Discover ASHRAE

Student Branch's President Christopher Cvetkovski is here to help students discover ASHARE. Email him to find out!



Christopher Cvetkovski and Jamie Smith give Discover ASHRAE Talk to Dr. Ting's third year Mechanical Engineering Class at close of last academic year.

ASHRAE Scholarships

28 Scholarships are available. Go to ashrae.org/scholarship to check out. Deadline is December 1st. In particular 13 undergraduate scholarships of \$3-10k. Please see Dr. Ting (Room 2144 CEI) in person if you are serious about applying.

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Fama Fouladi <i>Vice-President</i>	fouladi@uwindsor.ca
Ahmad Vassel Be Haghighi <i>Treasurer</i>	vaselb@uwindsor.ca
Rachelle DuChene <i>Secretary</i>	duchener@uwindsor.ca
Dr. David S.-K. Ting <i>Faculty Advisor</i>	dting@uwindsor.ca

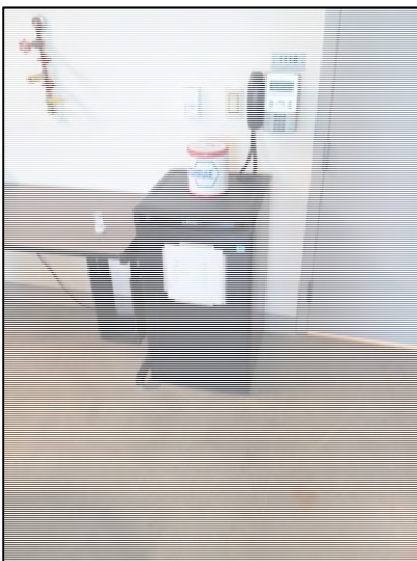
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It's a New School Year!



The Windsor Student ASHRAE Branch Executives and highly involved members

August 19, 2013 – The ASHRAE refrigerator is ready for customers to take advantage of the assorted chocolate, nuts and sesame seed inventory. Are you hot?? Freshly cooled cans of Pepsi are available for only \$1.50. Want to get involved and start fundraising for ASHRAE? Have an idea and want to contribute? Did you know that setting up and organizing fundraising events can significantly boost your CV/Resume? Contact Branch Treasurer Ahmad Vasel Be Hagh or President Christopher Cvetkovski to turn your ideas into reality.



ASHRAE Fundraising Fridge

Location: CEI 1118

Menu

Peanuts	1.50
Snaps	1.50
Chocolate	1.25
Gum	1.00
Pop	0.75

* Subject to change, check Fridge Price List

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**Windsor
Chapter**

AMERICAN SOCIETY OF HEATING REFRIGERATION
AND AIR CONDITIONING ENGINEERS



Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W

NEWSLETTER

November 25, 2012

Volume: 29 - Issue: 4

Next Meeting:

Tuesday December 11, 2012

DOWNTOWN KEG – LOUNGE / BAR

1 RIVERSIDE ST W., WINDSOR, ONTARIO

Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca

FUTURE MEETINGS:

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Nov. 20, 2012	Lilly Kazzilly's
Jan. 22, 2013	Lilly Kazzilly's
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Oct. 23, 2012	Lilly Kazzilly's
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Feb. 19, 2013	Lilly Kazzilly's
April. 17, 2013	Lilly Kazzilly's

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<i>President-Elect:</i>	Dan Castellan	(519) 253 3000
<i>Treasurer:</i>	Sara Algudady	(519) 817 9208
<i>Secretary:</i>	Diane Beresh	(519) 944 1898
<i>Past-President:</i>	Gord Snell	(519) 649 1700

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Greg Dufour	519) 974 5800
Nathan Cook	519) 971 0005
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Steve Koutsonicolas	(519) 999 9954
Bill Davies	(519) 250 2355

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<i>Membership:</i>	Nathan Cook	519) 971 0005
<i>Technology Transfer:</i>	Bill Davies	(519) 250 2355
<i>Historian:</i>	Gord Snell	(519) 649 1700
<i>Fac. Adviser-St. Clair College Student Chapter</i>	Jeff Cowling	(519) 972 2727, x 4086

<i>Fac. Adviser-U of W Student Chapter</i>	Dr. David Ting	(519) 253 3000, x 2599
<i>Reception:</i>		
<i>Student Activities</i>	Jeff Cowling	(519) 972 2727, x 4086
<i>Newsletter:</i>	Dan Castellan	(519) 253 3000, x 2164
<i>CCTC-Refrigeration</i>	Jon Palmer	(519) 819 7805

PRESIDENT'S MESSAGE

We are off to a great start this year and on behalf of the Windsor Chapter executive, thank you all. We had a special guest for our October meeting, Mr. Francis Lacharite, our Region 2 Regional Vice Chair for Student Activities. Francis and I visited with the St. Clair College Student Chapter and our Windsor Chapter Student Activities Chairman, Jeff Cowling and with the University of Windsor Student Chapter executive and with Dr. David Ting. Francis discussed how to improve their chapter operations and to start preparing for the Student Competitions. At our Dinner meeting, we had a total of 42 attendees including a great turn out of Students with over 20. This has been our largest student turnout in our chapter history for a dinner meeting.

In November, we had another special guest in attendance, Mr. Joel Primeau, our Region 2 Assistant Regional Chair. The Chapter executive met with Joel and he presented a Leadership Training session with a focus on helping our chapter define ourselves with a "Hedgehog Concept" and SMac, Specific, Methodical and Consistent rules. Joel has asked our chapter to develop our own unique concept and a set of simple rules to operate our chapter by. I believe if we prepare an appropriate concept and our rules, we will set our chapter up for long term success and I am looking forward to working with our Chapter Executive on this request. At the dinner meeting, we had a great presentation on Seismic Design and Installation requirements by Mike Flynn from the VMC group and a special thanks to Larry Mills for his assistance in setting up this meeting. We had another great turnout with 43 attendees including 14 students.

WEBSITE AND NEWSLETTER

ASHRAE Windsor has commissioned a local service to prepare our Chapter Website and we expect to have it ready in the new year. We will send out a formal announcement when it is ready. We are looking for sponsors for our Website and Newsletter. For \$100, you will receive a business card size ad on our Website and in our newsletter for the 2012 – 2012 year. Please let us know if you are interested in sponsoring.

DECEMBER MEETING

On December 11, 2012, we will be hosting our Christmas Social at the Downtown Keg. Please bring your spouse and friends and come down and have some Christmas cheer.

Please encourage someone at your office or associate that is not an ASHRAE member to come and join us and we are looking forward to seeing you there.

**Renew Your Membership
Online!**

Visit ashrae.org

and

Manage Your Membership



ASHRAE
Advancing HVAC&R to serve humanity
and promote a sustainable world



November 25, 2012

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SPECIAL CONGRATULATIONS

On December 17, 2012 the Windsor Chapter has our first Royal Couple. Sara Algudady our Chapter Treasurer and Jon Palmer our 2010-2011 Chapter President were married. On behalf of all our ASHRAE Windsor Members, we wish them well and a long and happy life together..





DECEMBER 2012 ASHRAE MEETING

CHRISTMAS SOCIAL

Date Tuesday December 11, 2012 - 5 pm to 7:30 pm.

Cost: \$20.00 per person

Where: Downtown Keg – Lounge / Bar Area - 1 Riverside Drive West, Windsor, ON

Come join us for a little Christmas Cheer. Bring your spouse or friends and have a great night.
Appetizers will be provided. Beverages are on your own.

*RSVP by Noon Monday December 10, 2012 to Melissa Weldon
at JASEL Engineering – melissa.weldon@jasel.ca*

FUTURE MEETING DATES

Please keep the following dates for our future meetings:

December 11, 2012	Christmas Social
January 22, 2013	Research Promotion Night
January 28–30, 2013	ASHRAE / HRAI Expo Dallas Texas
February 19, 2013	CTTC Night
March 19, 2013	Membership Promotion Night
April 17, 2013	Research Promotion Night
May 22, 2013	Historian Night (Past Presidents) & Student Activities Night



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November 25, 2012

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October 24, 2012 Meeting





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November 25, 2012

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November 25, 2012

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November 20, 2012 Meeting





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November 25, 2012

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University of Windsor
Student Branch

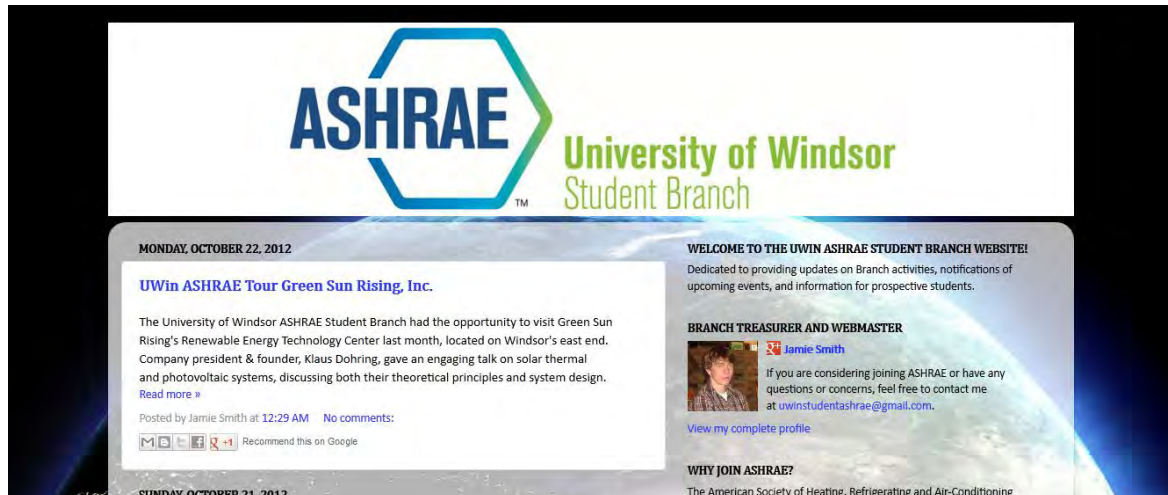
Student Branch

Newsletter

November 2012

UWin Student Branch Hosts Distinguished Guests

On October 23rd, 2012, the University of Windsor ASHRAE Student Branch had the honour of hosting two distinguished guests at the University's Ed Lumley Centre for Engineering Innovation: Mr. Francis Lacharité, ASHRAE Region II Vice Chair on Student Activities and member of the ASHRAE Montreal Chapter, and Mr. James Smith, President of the ASHRAE Windsor Chapter. After a brief introduction of the Student Branch executives and an update on Branch activities, the distinguished guests engaged executives in an enlightening discussion on creating a more active Branch and generating new membership. Later that evening, members of the University of Windsor ASHRAE Student Branch would join Mr. Lacharité (pictured second from the right) and Mr. Smith (pictured on the far right) at an ASHRAE Windsor Chapter dinner meeting on Windsor's east end.



UWin Student Branch Unveils New Website

The University of Windsor ASHRAE Student Branch unveiled their new website at uwinashrae.blogspot.com (pictured on the left), which will provide information for Branch members and prospective students. We are planning a tour of a Windsor-based tire recycling facility, so please visit our website often for news pertaining to this and other events. For any questions or comments, contact President Fama Fouladi at fouladi@uwindsor.ca.



NEWSLETTER

**St. Clair College
Student Branch**

November 2012

Why Join ASHRAE?

Explore Technology

Receive monthly ASHRAE Journal publications.

Get Special Discounts

Receive 75% off the purchase of the ASHRAE Handbook – Fundamentals with additional discounts on other publications.

Advance Your Career

Access the ASHRAE job postings network, or participate in any of the more-than forty courses offered by the ASHRAE Learning Institute.

Meet Industry Leaders

Attend local meetings, tours, and meet other members of the ASHRAE team.

ASHRAE St Clair College Student Branch

President

Jason Hunt

Vice-President

Kristine Fontanini

Executive Members

Dena Barrette
Sasha Suvajdzin
Karling Hoenig

Welcome Back Students

The ASHRAE St. Clair Student Branch would like to welcome new and returning members alike to what promises to be another great year. We have a number of events planned for the upcoming months including several tours, fundraisers, and the ASHRAE Winter Conference in Dallas. As always, we look to our members for their support in making these plans a reality. If you have any suggestions, contacts, or would simply like to be involved, contact us at the address below.

We look forward to sharing the product of our hard work with our members and thank you all for your continuing support.

Jason Hunt
President

Upcoming Events



Unconquered Sun Tour

Friday November 9, 2012 at 3:30 pm



Windsor Regional Hospital Tour

Wednesday November 21, 2012 at 5:30 pm



Windsor Chapter

Windsor Chapter Meeting

Lilly Kazzilly's Crab Shack and Grille

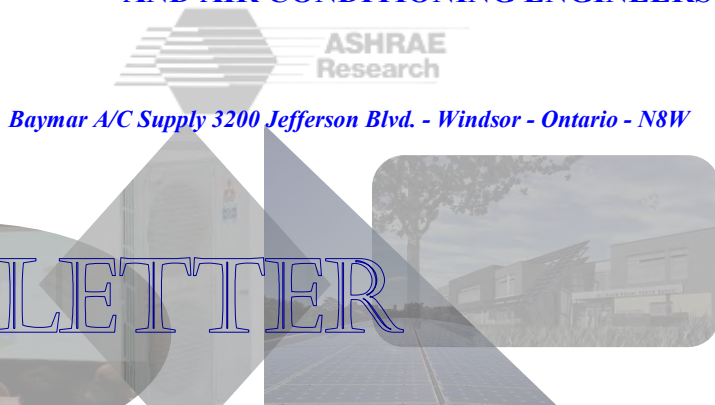
Tuesday November 20, 2012 at 5:30 pm

Contact Us

ashrae.scc@gmail.com



AMERICAN SOCIETY OF HEATING REFRIGERATION
AND AIR CONDITIONING ENGINEERS



Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W

NEWSLETTER

January 21, 2013

Volume: 29 - Issue: 5

Next Meeting:

Tuesday January 22, 2013

TOUR OF FAMILY AQUATIC COMPLEX

CORNER OF BRUCE AVE AND RIVERSIDE DRIVE WEST WINDSOR, ONTARIO

Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca

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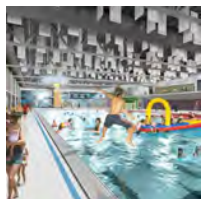


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and promote a sustainable world



January 21, 2013

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JANUARY 2013 ASHRAE MEETING

TOUR OF FAMILY AQUATIC COMPLEX

(CURRENTLY UNDER CONSTRUCTION)



- Date* Tuesday January 22, 2013 - 5 pm Tour - Meet at 4:45pm at Bruce Ave. Entrance.
- Cost:* \$40 ASHRAE Windsor Chapter Member - \$50 Non-ASHRAE Windsor member / Guest
- Where:* Family Aquatic Complex, Corner of Bruce Ave and Riverside Drive West Windsor, ON
Parking Located at Corner of University Ave. and Bruce Ave.
- Dinner:* 6:30 pm Dinner – **Bubi's Awesome Eats** – 620 University Ave
- Presentation :* 7:30 pm

**SAFETY EQUIPMENT MUST BE WORN. YOU MUST BE WEARING THE FOLLOWING
SAFETY EQUIPMENT IN ORDER TO TAKE PART IN THE TOUR:
SAFETY GLASSES, SAFETY SHOES, HARD HAT**



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ASHRAE Windsor Chapter

NEWSLETTER

February 21, 2013

**AMERICAN SOCIETY OF HEATING REFRIGERATION
AND AIR CONDITIONING ENGINEERS**

ASHRAE Research

Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W

Volume: 29 - Issue: 6

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TOUR - ST. CLAIR COLLEGE CHILLER PLANT

WINDSOR, ONTARIO

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<i>Jan. 22, 2013</i>	Tour-Aquatic Centre	<i>Feb. 26, 2013</i>	Tour-St.Clair College Chiller
<i>Mar. 19, 2013</i>	TBA	<i>April. 17, 2013</i>	Caesars—DL Presentation
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<i>President-Elect:</i>	Dan Castellan	(519) 253 3000
<i>Treasurer:</i>	Sara Algudady	(519) 817 9208
<i>Secretary:</i>	Diane Beresh	(519) 944 1898
<i>Past-President:</i>	Gord Snell	(519) 649 1700

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Bill Davies	(519) 250 2355

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<i>Resource Promotion:</i>	Steve Koutsonicolas	(519) 999 9954	<i>Fac. Adviser-U of W Student Chapter</i>	Dr. David Ting	(519) 253 3000, x 2599
<i>Membership:</i>	Nathan Cook	519) 971 0005	<i>Reception:</i>		
<i>Technology Transfer:</i>	Bill Davies	(519) 250 2355	<i>Student Activities</i>	Jeff Cowling	(519) 972 2727, x 4086
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<i>Fac. Adviser-St. Clair College Student Chapter</i>	Jeff Cowling	(519) 972 2727, x 4086	<i>CCTC-Refrigeration</i>	Jon Palmer	(519) 819 7805



FEBRUARY 2013 ASHRAE MEETING

TOUR OF ST. CLAIR COLLEGE CHILLER PLANT

Our February meeting will be on Tuesday February 26, 2013 and it will be a tour of the St. Clair College Chiller Plant and Technical talk on the Efficiencies upgrade for the system. Speaker and Tour Guides – Jon Palmer and James Smith. Tour starts at 5:00 pm. Dinner at 6:30 pm and Technical Talk at 7:30 pm. All attendees are required to have safety shoes and safety glasses. Cost \$40.00 per person

<i>Date</i>	Tuesday February 26, 2013 - 5 pm Tour - Meet at 4:45pm at St. Clair College
<i>Cost:</i>	\$40 ASHRAE Windsor Chapter Member - \$50 Non-ASHRAE Windsor member / Guest
<i>Where:</i>	St. Clair College Chiller Plant <i>Parking Located on Campus.</i>
<i>Dinner:</i>	6:30 pm Dinner – St. Clair College
<i>Presentation :</i>	7:30 pm
<i>Speaker and Tour Guides</i>	Jon Palmer and James Smith.

**SAFETY EQUIPMENT MUST BE WORN. YOU MUST BE WEARING THE FOLLOWING
SAFETY EQUIPMENT IN ORDER TO TAKE PART IN THE TOUR:
SAFETY GLASSES, SAFETY SHOES,**

RSVP to; nathan.cook@jasel.ca by Monday, February 25, 2013



WEBSITE AND NEWSLETTER

ASHRAE Windsor has commissioned a local service to prepare our Chapter Website and we expect to have it ready in the new year. We will send out a formal announcement when it is ready. We are looking for sponsors for our Website and Newsletter. For \$100, you will receive a business card size ad on our Website and in our newsletter for the 2012 – 2013 year. Please let us know if you are interested in sponsoring.

FUTURE MEETING DATES

Please keep the following dates for our future meetings:

February 22, 2013	Tour-St. Clair Chiller Plant
March 19, 2013	Membership Promotion Night
April 17, 2013	DL– Presentation—Caesars Windsor
May 22, 2013	Historian Night (Past Presidents) & Student Activities Night

**Renew Your Membership
Online!**

Visit ashrae.org

and

Manage Your Membership



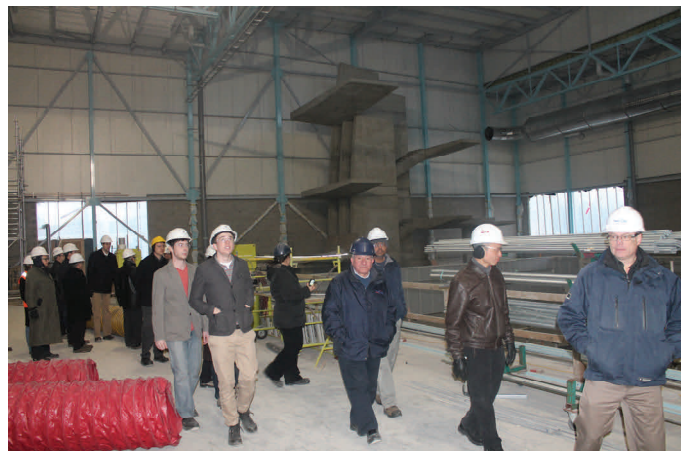
ASHRAE
Advancing HVAC&R to serve humanity
and promote a sustainable world

February 21, 2013

Page 4 of 5

January 22, 2013 Meeting

Tour of Family Aquatic Complex





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and promote a sustainable world



February 21, 2013

Page 5 of 5





AMERICAN SOCIETY OF HEATING REFRIGERATION
AND AIR CONDITIONING ENGINEERS

ASHRAE
Research
Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W

NEWSLETTER

March 13, 2013

Volume: 29 - Issue: 7

Next Meeting:

Tuesday March 19, 2013 **TOUR - UNIVERSITY OF WINDSOR** **CENTRE FOR ENGINEERING INNOVATION**

Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca

FUTURE MEETINGS:

Sept. 22, 2012	Kingsville Golf Club
Nov. 20, 2012	Lilly Kazzilly's
Jan. 22, 2013	Tour-Aquatic Centre
Mar. 19, 2013	UofW-Tour CEI
May 22, 2013	Beach Grove Golf Course

Oct. 23, 2012	Lilly Kazzilly's
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April. 17, 2013	Caesars—DL Presentation

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and promote a sustainable world

March 13, 2013

Page 2 of 5

MARCH 2013 ASHRAE MEETING
UNIVERSITY OF WINDSOR—TOUR
ED LUMLEY CENTRE FOR ENGINEERING INNOVATION



Our March meeting will be on Tuesday March 19, 2013 and it will be a tour of the University of Windsor Ed Lumley Centre for Engineering Innovation and Technical talk on the building sustainable attributes and on the Termobuild system.

Tour Guides: **University Students and Any Jenner , Facility Coordinator**
Tour Starts at 5:00 pm—Meet in the Front Lobby (Atrium)

Dinner : **CIBPA Centre—995 Howard Ave. (corner of Erie & Howard)**
Dinner Starts at 6:30 pm -
Cash Bar



Speaker & Presentation: **Jack Laken, P.Eng. B.Sc., President Termobuild Canada**
The Specialists in Thermal Mass and Energy Storage
Presentation Starts at 8:00 pm

The presentation will be on one of the sustainable energy savings initiatives of the building. The building hollow core slabs given their intrinsic ability to store and distribute heating and cooling in any climate. panels are naturally able to retain heat and cool energy (a process known as “thermal storage”) to be released upon demand. From a technical perspective, the process of thermal storage that occurs via floors and ceilings works intuitively with fan-assisted ventilation that pushes the fresh air through a series of main ducts that are fed into smaller branch ducts, strategically placed within the larger hollow core slab structure. As air passes through the ducts, the concrete warms or cools the fresh air before supplying it to the occupied space.

Parking: **South of the Engineering Building off California St.**

Cost:: **\$40 ASHRAE Windsor Chapter Member - \$50 Non-ASHRAE Windsor member / Guest**

RSVP to; **nathan.cook@jasel.ca by Monday, March 18, 2013**

WEBSITE AND NEWSLETTER

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FUTURE MEETING DATES

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March 19, 2013	University of Windsor—TOUR Ed Lumley Centre for Engineering Innovation
April 17, 2013	DL– Presentation—Caesars Windsor
May 22, 2013	Historian Night (Past Presidents) & Student Activities Night

Save The Date

DISTINGUISHED LECTURER

When: **Wednesday April 17, 2013**

Where: **CEASARS WINDSOR**

Guest Speaker: **DEVIN A. ABELLON, P.E.**

Uponor North America, Phoenix, Arizona



Mr. Abellon is a registered professional engineer with over 17 years of experience in the HVAC field, designing systems for commercial, institutional, industrial, health care, and municipal projects. Mr. Abellon was Vice President and managing principal of LSW Engineers California, Incorporated in San Diego until 2009, when he accepted a position as Business Development Manager for Uponor North America. He now works closely with engineers throughout the country, supporting projects that integrate radiant heating and cooling strategies to maximize energy efficiency. Mr. Abellon earned his B.S. degree from the University of California at Santa Barbara in 1993. He is an active member of ASHRAE on the local chapter, regional, and Society level and is currently the Programs Subcommittee Chair for ASHRAE TC6.5 – Radiant and Convective Space Heating and Cooling, as well as a Regional Vice Chair in Region X.

Lecture Topic: **Embedded Tube Radiant Systems to Maximize LEED Points**

This program will cover the following topics: Radiant Cooling Heat Transfer Fundamentals; Radiant Cooling Performance/Capacity; Typical Construction Methods & Case Studies

Attendees will gain an understanding of how in-slab radiant cooling systems can be used as part of an energy-efficient design solution to maximize Energy and Atmosphere credits for LEED certification, and see examples of how this has been accomplished on projects both here in the United States and abroad.

www.ashrae.org/abepwebcast

Brought to you by the ASHRAE Chapter Technology Transfer Committee

Presenters



Thomas E. Watson,
ASHRAE President



Drury Crawley, Ph.D.



Jim Kelsey, LEED AP,
P.E., BEAP



Christopher Mathis

Assessing Building Energy Performance:

From Principles to Practice

April 18, 2013 | 1:00 PM-4:00 PM EDT

This webcast will feature industry experts who will explain the importance of building energy performance and its far-reaching implications in both new and existing buildings. Viewers will also learn about the various tools and approaches that are available, as well as the many opportunities that assessing building energy performance presents.

How to Participate

- You may register to view the webcast on your PC
- You may host a webcast viewing site for your colleagues
- View the webcast at a site

PDH Credits

Three (3) Professional Development Hours (PDHs) or three (3) AIA Learning Units (LUs) may be awarded to viewers who complete the "Participant Reaction Form" by May 2, 2013.

For more information about the program, presenters, continuing education credits, sponsorships, and ABEP resources, please visit us at www.ashrae.org/ABEPwebcast OR scan this tag with your smart phone.



Get the free mobile app at
<http://gettag.mobi>



WEBCAST

Please join us on April 18, 2013 @ 1:00 pm, Mr. Davies from **Union Gas Limited** has graciously offer their facility to present the Webcast

3840 Rohdes Drive Windsor Ontario 519 251 6824

ASHRAE Webcast to Focus on Building Energy Performance



Christopher Mathis
MCSquared
Asheville, NC

Drury Crawley
Bentley Systems
Washington, DC

Jim Kelsey
kW Engineering
Oakland, CA

ASHRAE's upcoming webcast, titled **Assessing Building Energy Performance: From Principles to Practice**, will broadcast live on **April 18, 2013, from 1:00 – 4:00 pm EDT**. This **FREE** webcast is brought to you by the Chapter Technology Transfer Committee.

"This webcast will focus on the importance of building energy performance and its far reaching implications in both new and existing buildings," said Andy Cochrane, Chair of the CTTC Webcast Ad Hoc Committee. "This program will help participants to recognize the opportunities that Assessing Building Energy Performance (ABEP) presents. From recognizing the different approaches, team skills, and knowledge needed to properly assess building energy performance, to the application of ASHRAE building audit levels, this webcast will provide viewers with an understanding of ABEP principles and practical application knowledge."

The webcast presenters are:

Christopher Mathis, President, MC Squared, Asheville, NC

Drury Crawley, Ph.D, Director of Building Performance, Bentley Systems, Washington, DC

Jim Kelsey, LEED AP, PE, BEAP, Principal, kW Engineering, Oakland, CA

Online registration for the webcast will begin on March 18, 2013. For more information on the webcast program, sponsorship opportunities, continuing education credits, and ASHRAE resources related to assessing building energy performance, visit www.ashrae.org/ABEPwebcast. If you have questions about the webcast, call 678-539-1200 or email ashrae-webcast@ashrae.org.

Canada Wide Science Fair Finalists 2012



(From left to right)
Derek Churchill - Green Cleanup & Dr. M. Koschinsky, Dean of the Faculty of Science, University of Windsor
Alexander Deans - IBELT-Training the Ear to See! & Dr. D. Thomas, Professor Emeritus, University of Windsor
Brynn Charron - Wind Amplification Using a Multi-Stage Wind Turbine & Mr. J. Ullomy, Superintendent, WECD58
Meagan Fabel - Catch the Solar Wave to Save! Phase Two & Mr. G. Leong, VP of Scientific Affairs, Jamieson Laboratories
Candace Brooks-DaSilva (absent), Quick: Sound the Alarm
(Photo by B. Iler)

Past Donors to WRSTEF

A.A. Boscaroli & Associates Ltd. Académie Ste-Cécile International School Dr. Moussa's Vision Therapy Al Hija Academy Allegre Print & Imaging, Windsor Amec Earth & Environmental Ltd. An-Noor Islamic Private School American Society of Heating, Refrigeration and Air Conditioning Engineers Canada South Science & Discovery Centre Captain's Home Furnishing Conseil scolaire de district des écoles catholiques du Sud-Ouest D.C. McCloskey Engineering Ltd. Department of Earth Sciences, University of Windsor	Dillon Consulting & Research Center E.ON/Utilities Essex Region Conservation Authority Engineers of Ontario Ficca Inc. Faculty of Education, University of Windsor Faculty of Engineering, University of Windsor Faculty of Nursing, University of Windsor Faculty of Science, University of Windsor Genivar Inc. Golder Associates Ltd. of Windsor	Greater Essex County District School Board Greater Windsor Horticultural Society Haddad Morgan and Associates Ltd. Interpud General Ltd., Chatham Isaac Technologies Corp. Jamieson Laboratories Landmark Engineers Inc. Mad Science NSERC, University of Windsor Ontario Association of Certified Engineering Technicians and Technologists Ontario English Catholic Teachers Association Office of the President, University of Windsor	Office of the Registrar, University of Windsor R. Lucette Engineering Inc. St. Clair College of Applied Arts and Technology Stantec Consulting Ltd. WE Tech Alliance Windsor Cardiac Centre (Dr. Wadwa Tarhani) Windsor Essex County Catholic District School Board Windsor Essex Chapter of Professional Engineers Ontario Windsor Family Credit Union Windsor Islamic Association Youth Science Ontario
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Thank you to our sponsors!
Looking forward to working with you in 2013!

something **big**
is coming to **Windsor**
in **2014** ...

**The WRSTEF is hosting
the Canada Wide
Science Fair in May 2014!**

**Ask us how YOU can be a
part of this exciting
opportunity!**



April 6th and 7th, 2013

**Hosted by
St. Clair College of Applied Arts and Technology
South Campus, FCEM Building**

www.wrstef.ca

A Message from the WRSTEF

Dear Sponsor,

Preparations for the 52nd annual **Windsor Regional Science, Technology and Engineering Fair (WRSTEF)** are well under way. Students from Windsor and Essex County (Grades 4 to 12) are encouraged to develop innovative projects in the various disciplines of science, mathematics, engineering, and technology. **Selected students** participate in the Windsor Regional Science, Technology and Engineering Fair. The **top students** from our fair will advance to compete nationally at the **Canada Wide Science Fair** in Lethbridge, Alberta in May 2013.

We are requesting your assistance in acknowledging and supporting the hard work, and reward the countless hours spent on our participants' science fair projects. Your financial contribution will be used for a **Sponsored Award** or for our **fair expenses**. Sponsored Awards typically include plaques, books, and cash bursaries. In-kind donations such as meals for participants and judges, medals, tables, printing, promotional items and other function needs are also gladly accepted.

Please contact our fundraising committee at fundraising@wrstef.ca for further information. Thank you in advance for your consideration.

Yours in Science,

Jill Bundun

Jill Bundun
Co-chairperson
WRSTEF 2013

Michel Larocque

Michel Larocque
Co-chairperson
WRSTEF2013



Youth Science Canada
Sciences Jeunesse Canada



The WRSTEF is affiliated with Youth Science Canada and Youth Science Ontario, the umbrella organizations for more than 100 regional fairs across the country.

WRSTEF 2012 Highlights

- Over **\$9,000** in cash, prizes, trips, scholarships and participant awards
- Activities included **Mad Science**, a chemistry magic show and hands-on activities
- All **Gold** medal recipients also received Dr. Moussa's Vision Therapy & Research Center Excellence Awards
- All **Silver** medal recipients also received Windsor Islamic Association Excellence Awards
- **30** WRSTEF students received Windsor Islamic Association Awards of Merit
- **5** WRSTEF students won all-expense paid trips to compete in the **Canada Wide Science Fair** in PEI
- **4** WRSTEF students received **silver or bronze medals** at the **Canada Wide Science Fair** in PEI

Participation Highlights

Number of students : **255** Number of projects : **189**
Number of judges : **203** Number of committee members : **17**
Number of student volunteers : **19**

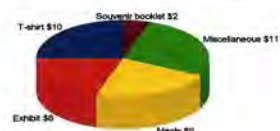
Financial Information

INCOME	2012	2011	2010
Donations/Sponsorship	\$24,950	\$16,700	\$20,900
Registrations	\$2,875	\$6,071	\$4,026
TOTAL	\$27,825	\$22,771	\$24,926

EXPENSES	2012	2011	2010
Administration	\$2,290	\$873	\$1,668
Fair Expenses	\$5,450	\$10,438	\$16,789
Awards	\$7,932	\$6,400	\$3,225
CSWF Expenses	\$11,461	\$3,889	\$5,266
TOTAL	\$27,133	\$21,600	\$26,948

The cost of each student participating in the fair is **\$40** and their registration cost is **\$12**.
The remaining **\$28** comes from generous sponsors like yourself.

(Based on the participation of 300 students)





Next Meeting: **Wednesday April 17, 2013**
DISTINGUISHED LECTURER
CAESARS WINDSOR

Please confirm your attendance by calling James Smith @ 519 971 0005 or Email: james.smith@jasel.ca

FUTURE MEETINGS:

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Nov. 20, 2012	Lilly Kazzilly's	Dec. 11, 2012	Christmas Social - TBA
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Shaping Tomorrow's
Built Environment Today

AMERICAN SOCIETY OF HEATING,
REFRIGERATING AND AIR-CONDITIONING
ENGINEERS, INC.

CHAPTER 141, WINDSOR, ONTARIO

Windsor ASHRAE Chapter Welcomes



DEVIN A. ABELLON, P.E., Uponor North America, Phoenix, Arizona

Mr. Abellon is an ASHRAE Distinguished Lecturer and a registered professional engineer with over 18 years of experience in the HVAC field, designing systems for commercial, institutional, industrial, health care, and municipal projects. Mr. Abellon was Vice President and managing principal of LSW Engineers California, Incorporated in San Diego until 2009, when he accepted a position as Business Development Manager for Uponor North America. He now works closely with engineers throughout the country, supporting projects that integrate radiant heating and cooling strategies to maximize energy efficiency.

Using Embedded Tube Radiant Cooling Systems to Maximize LEED Points

As more and more jurisdictions and building owners are requiring higher levels of LEED certification for their projects, design teams are looking beyond traditional HVAC solutions to provide the energy efficiency needed to maximize LEED points while maintaining occupant comfort and safety. In-slab radiant heating systems have enjoyed popularity both here in the United States and abroad for years. Now, with the availability of improved control systems and better understanding within the design and construction community, the same concept can be applied to radiant cooling as an energy-efficient and cost-effective solution.

Attendees will gain an understanding of how in-slab radiant cooling systems can be used as part of an energy-efficient design solution to maximize Energy and Atmosphere credits for LEED certification, and see examples of how this has been accomplished on projects both here in North America and abroad.

Please accept our invitation and pass along to others!

Wednesday April 17th, 2013 at Caesars Windsor- Luna Room

377 Riverside Dr E, Windsor, Ontario N9A 7H7,

Cocktails (cash bar) from 5:00pm, Gourmet Dinner 6:30 PM

Cost for Presentation and Dinner – ASHRAE Windsor members \$75 Non-members \$85

Please RSVP by Thursday April 11, 2013 to JASEL Engineering
melissa.weldon@jasel.ca or phone 519-971-0005 x0 (leave message)

Meal options:
(Please select one upon your reply)

ENTRÉE

- 1) Mustard Herb Crusted Chicken
- 2) Atlantic Grilled Salmon
- 3) Cider Glazed Pork Rack

Please indicate any Dietary Restrictions



ASHRAE Windsor Chapter

NEWSLETTER

May 15, 2013

**AMERICAN SOCIETY OF HEATING REFRIGERATION
AND AIR CONDITIONING ENGINEERS**

ASHRAE Research

Baymar A/C Supply 3200 Jefferson Blvd. - Windsor - Ontario - N8W

Volume: 29 - Issue: 9

Next Meeting:

Wednesday May 22, 2013

PAST PRESIDENTS

BEACHGROVE GOLF & COUNTRY CLUB

WINDSOR, ONTARIO

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PAST PRESIDENTS NIGHT

AND

Student Night

University of Windsor Student Branch presentations:

- 1) **"University of Windsor ASHRAE Student Branch 2012-2013"**
by Student President Fama Fouladi

- 2) **"Geothermal Capstone"**
by Olaoluwa Tubi.

University of St Clair College Student Branch presentations:

- 1) **"St. Clair College ASHRAE Student Branch 2012-2013"**
Year in Review by Student President Jason Hunt

- 2) **"Capstone Project—Energy Management Analysis"**
by Dena Barette.

April 17, 2013 - Distinguished Lecture Meeting











ASHRAE

Shaping the

Our World - Our

ASHRAE
Toronto
Chapter



Paving the Next...

World -Ourselves -Our Work



A goal without a plan is just a wish.
—Antoine de Saint-Exupéry

The will to win is nothing
without the will to prepare.
—John Wooden

Unless commitment is made,
there are only promises, good
hopes, but no plans.
—Peter Drucker









