



THE SPEAKEASY

January 10, 2018

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GGAC PROMOTION TUESDAY JANUARY 30, 2018 BEACH GROVE GOLF—DISTINGUISHED LECTURER

Please confirm your attendance by calling Nathan Cook @ 519 948 5000 or Email: windsorashrae141@gmail.com

SCHEDULED MEETINGS:

Sept. 11, 2017 26th Annual Golf Tournament
Oct. 30, 2017 Tour of Hiram Walker Power House
Nov. Tour of Wolfhead Distillery
Dec. 12, 2017 Christmas Social—Johnny Shotz

Jan. 30, 2018 Distinguished lecturer
Feb. 27, 2018 Society President Dinner
Mar. 28, 2018 Joint Meeting with AEE and NRC
April 18, 2018 Past Presidents' Night - DL at
May 16, 2018 Students' Night

CHAPTER OFFICERS & BOARD OF GOVERNORS

President: Paul Greff (519) 966 6100
President-Elect: Nathan Cook (519) 948 5000
Treasurer: David Dufour (519) 916 5411
Secretary: (519) 737 5725

BOARD OF GOVERNORS

James Smith (519) 737 5725
Dan Castellan (519) 253 3000
Steve Koutsonicolas (519) 999 9954
Bill Davies (519) 251 6824

CHAPTER COMMITTEES:

Research Promotion: Andy Hrutka (519) 737 1888
Membership: James Smith (519) 250 2006
Technology Transfer: Dan Castellan (519) 251 6824
Historian: Gord Snell (519) 964 1700
Young Engineers in ASHRAE (YEA): Amanda Smith (226) 344 5218
Refrigeration Chair: Jon Palmer (519) 256 7922

Grassroots Government Advocacy: Bill Davies (519) 253 3000
Student Activities: Jamie Smith (519) 890 8684
Fac. Adviser - U of W Student Chapter: Dr. David Ting (519) 253 2871
Newsletter: Paul Greff (519) 737 5725
Reception: Rene Plourde (519) 256 7922



ASHRAE Windsor January 30 2018 Meeting

DISTINGUISHED LECTURER - APPLICATION OF STANDARD 189.1-2014

The Windsor Chapter of ASHRAE is pleased to invite you to our January 2018 meeting. We will be gathering at a location that is known for our Past President's Night meetings; Beach Grove Golf and Country Club in St Clair Beach.

Beach Grove provides a beautiful newly restored establishment paired with excellent views and fabulous food and service.

Date: **Tuesday, January 30, 2018**
5:30 PM - Eastern Time

Location: **Beach Grove Golf & CC**
14134 Riverside Drive East
Tecumseh, Ontario

ASHRAE Windsor Chapter Members: **\$65**
Guests: **\$75**
Students: **\$65**

Dinner includes an entrée , steak dinner with all the fixings. Beverages are not included.

Please RSVP via email by Wednesday January 24th at 12:00 PM to Nathan Cook.
windsorashrae141@gmail.com, (519) 948-5000



DAVID UNDERWOOD PENG, MEMBER ASHRAE, FELLOW ASHRAE



David Underwood has served ASHRAE for many years at the chapter, region and society. He was the founder of Isotherm Engineering Ltd. and Evaporative Tower Services Inc in Ontario, Canada. He received his engineering degree from the University of Manitoba in 1964. Mr. Underwood is a Fellow in ASHRAE. He has received the Distinguished and Outstanding service awards and the William J. Collins award. He has just concluded two years as an ASHRAE Vice President.

In his role on the Ontario Provincial Advisory Committee for the certified refrigeration trade, he developed the trade examination and courses for refrigeration apprentices and coauthored a safety manual for refrigeration mechanics. For many years Mr. Underwood was an active participant on the B-52 Mechanical Refrigerant Code committee for Canada. He also actively participated in developing the Refrigerant Management regulation for Ontario. Currently he serves on the Model National Building Code Committee.

Application of Standard 189.1-2014

GBCI APPROVED | 1 CE HOUR, AIA APPROVED | 1 LU/HSW

CLASSIFICATION: BASIC

THIS PRESENTATION WILL BEGIN WITH A GENERAL OVERVIEW REGARDING THE STRUCTURE AND DESIGN SECTIONS OF STANDARD 189.1-2014. THE SPEAKER WILL EMPHASIZE THE INTEGRATED DESIGN APPROACH (IDB) THAT IS REQUIRED TO MEET OR EXCEED THE MINIMUM REQUIREMENTS OF THE STANDARD. THE DISCUSSION WILL INCLUDE:

- I. THE GOAL OF NEW ZERO ENERGY/ CARBON DESIGN USING TECHNIQUES, MATERIALS AND METHODS
- II. THE NEED FOR COOPERATIVE ACTIVITIES OF MAJOR DISCIPLINES SUCH AS ARCHITECT, MECHANICAL AND ELECTRICAL CONSULTANTS
- III. THE CONTACT OF CURRENT ECONOMIC CONDITIONS



TABLE TOP DISPLAY

Table Top Displays are available. Please contact Paul Greff for more information! Cost is \$200 and covers one meal.

Next Meeting:

February 27, 2018: ASHRAE Society President Bjarne Olesen, PhD, speaking on ASHRAE's involvement with the Global Energy issues and recent Government Changes. Location will be at Spago's on Erie Street, upstairs. We will also be joined by members of AEE local chapter and Society President. This will be a GGAC—Government Grassroots Advocacy Committee Event!



YEA Social Night

The first YEA social night this year is to take place this winter. Stay Tuned. Future Events will involve Go Kart Racing!!



HISTORY CORNER

History Corner – Keeping You Up To Date
A 250 year old technology still in use today!

Nikolay Lvov (1753 – 1803) was known as a Russian artist, was a polymath who contributed to geology, history, graphic arts and poetry, but was known primarily as an architect.

Lvov worked in Saint Petersburg but his best works survived in the countryside, especially his native Tver Governorate. He dabbled in many different things throughout his career. For example; he ran a construction school, established in 1797, and trained over 800 craftsmen. He experimented with coal pyrolysis (for use in heating), developed new uses for coal tar and sulphur, and wrote a reference book on heating and ventilation.

Nikolay Lvov – Combined “Rammed Earth” building technology with in-floor and in-wall heating systems. Concerned with inefficiency of existing heating ovens, he designed his own building heating system. The buildings were designed using rammed earth construction principals that contain elaborate heat exchanging ductwork. The heat conveyed through the ductwork gently warmed up incoming outdoor air, heating and ventilating indoor space simultaneously. These ducts became his trademark and were used to identify Lvov's designs, notably the Trinity church in Ukraine.

In the 1790s Lvov brought rammed earth technology to the environment of Northern Russia. In the end of 1797 Paul commissioned Lvov to design and build the Priory Palace in Gatchina Park - the largest rammed earth project ever built in Russia. (It also used another of Lvov's inventions, a composite roofing material made by impregnating cardboard sheets with coal tar and mineral powders.) The Priory Palace was literally built in a swamp, of dirt and dust. It was rated to stand for 25 years only. Contrary to expectations it survived over two hundred years, despite the neglect of the Soviet period and the German attempts to destroy it in World War II.

This early developed heating system technology has definitely stood the test of time and contributed to the period respective sustainability of his buildings. The technology is still used today in other forms such as in-floor heating and air-core slab heating and cooling systems.

Source: Nikolay Lvov - From Wikipedia, the free encyclopedia
(https://en.wikipedia.org/wiki/Nikolay_Lvov)



Advertising and Promotion

Actively participating in ASHRAE events is a great way to network and discuss potential projects and applications. Chapter meetings provide a captive audience and exposure to a group actively involved in our industry. Promotion opportunities are available during our chapter meetings, through the monthly newsletter and the new website.

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 monthly chapter meetings?

The fee to provide a Table Top Display is \$200.00 (CAD). In addition to the presentation, the fee also covers the cost of the presenter's meal at the event. If interested in providing a Table Top Display at a future meeting to promote product lines or technologies, please contact Nathan Cook to schedule.

windsorashrae141@gmail.com
(519) 948-5000

BUSINESS CARD PROMOTION

The monthly newsletter is distributed to all of our ASHRAE Windsor members as well as several others that are involved in our industry. Inclusion of your business card in the newsletter would provide a great opportunity to introduce your name and company to those members who may not know you personally. Business cards may also be displayed on the new website.

The fee to include your business card in the newsletter is \$100.00 (CAD) for the year ending June 30, 2017. If interested in having your business card information included in the monthly newsletter, please contact Nathan Cook.

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ASHRAE Conferences

2018 WINTER CONFERENCE AND AHR EXPO

Looking to plan a winter getaway? ASHRAE has you covered! The world's largest gathering of HVAC&R professionals is taking place this January in Chicago. An extensive technical program is available that includes a plethora of seminars, presentations, courses, training and certification opportunities for a variety of disciplines and specializations. In addition to the technical offerings, there are a number of tours and social events to meet fellow ASHRAE members from around the world. What better place to do all of this than in ChiTown!

The International Air-Conditioning, Heating, Refrigerating Exposition (AHR Expo), which started 86 years ago as a heating and ventilation show, has grown into *the* HVACR event of the year and is held in major cities across the U.S. The 2018 Show will be in Chicago, hosting more than 2,000 exhibitors and attracting crowds of 60,000 industry professionals from every state in America and 150 countries worldwide. It provides a unique forum designed expressly for the HVACR community, allowing professionals to get together to share new products, technologies,





ASHRAE Chapter Involvement

It is a welcome site to see Chapter members and non-member guests alike attend the monthly meetings and events. The time and effort put forth by all individuals to attend these events is greatly appreciated as it helps strengthen and develop our Chapter as a whole.

As it takes time and effort to attend these meetings, it also takes a great deal of time, effort and dedication to organize and prepare for these events such that they are informative and enjoyable for everyone.

It is a goal of the Chapter to increase the number of participating members. Involvement in Chapter operations is not limited to the Board of Governor and Chapter Committee positions. All individuals interested in getting involved with ASHRAE at any level are encouraged to volunteer in any capacity they are willing and able to. Any efforts to help the Chapter continue to develop and improve would be greatly appreciated.

If anyone is interested in volunteering for general involvement or have a specific task in mind, please contact Nathan Cook.

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