



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

LONDON CANADA CHAPTER #116

<http://LondonCanada.AshraeChapters.org>

Mon Jan 19/2015

BOARD OF GOVERNORS

President

Ibrahim Simhatl
ph: 519-681-1221 e234
ibrahim.semhat@jci.com

Vice President

Jorden Foster
ph: 519-679-8660
jordan.foster@chorley.com

Secretary

Phil Cook
ph: 226-984-8637
pcook@ehpricesales.com

Treasurer

Khalid El-Kadri
ph: 519-681-1977
khalid@somersep.com

COMMITTEE CHAIRS

Technology Transfer

Mike Piluk
ph: 519-652-8280
mike_piluk@hotmail.com

Membership Promotion

Jeff Watson
ph: 519-679-8660
jeff.watson@chorley.com

Research Promotion

John Freeman
ph: 519-266-3587
jfreeman@gpainc.ca

Student Activities

Benjamin Oliver
ph: 705-945-0139
ben.oliver@chorley.com

YEA

Nikola Zubic
ph: 519-679-8660 e240
nik.zubic@chorley.com

Grassroots Gov Activities

Jordan Foster
ph: 519-679-8660
ibrahim.semhat@jci.com

Newsletter

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

Topic

PROBLEM SOLVING, LEADING AND THINKING LIKE AN ENGINEER

Speaker

Victor Goldschmidt, PE, PH.D

ASHRAE Distinguished Lecturer

ASHRAE Fellow

Professor Emeritus at Purdue University

Meeting - Mon Jan 19/2015

Past President Night

5:15 pm Social

6:15pm Dinner

7:15pm Speaker

ASHRAE Member/Guest \$50.00

Student Non-Member \$10.00

ADVANCED PAYMENT BEFORE MEETING

by using PAYPAL

use the chapter web site to register and pay

<http://LondonCanada.AshraeChapters.org>

location:

FOUR POINTS BY SHERATON

1150 Wellington Rd S.
London, Ont

Presidents Message

On behalf of the ASHRAE London Chapter Board of Governors, we would like to wish you a **Happy New Year in 2015**. Our January chapter meeting is scheduled a week earlier due to the ASHRAE Winter Conference and Expo which starts on **January 24th – 28th** in **Chicago, IL**.

The theme for our January chapter meeting will be Past President's Night. Our **Distinguished Lecture (DL)** speaker this month is **Victor Goldschmidt**. Ph.D. Victor is a professor at Purdue University, School of Mechanical Engineering in Northport, MI. He will be speaking in regards to "Problem solving, leading and thinking like an engineer". The meeting will be held at Four Points by Sheraton located at 1150 Wellington Road South.

We have invited many of the past presidents to attend the meetings and speak to the group on their experiences and involvements in ASHRAE and the HVAC industries during their terms serving as London chapter presidents. Please help us make our Past President's night an enjoyable and successful event by attending and contributing to the evening's festivities.

ASHRAE is excited to return to **Chicago** for the **2015 Winter Conference**; its historically best-attended event. Attendees can discuss the latest topics in the building industry, participate in technical tours, attend ASHRAE Learning Institute courses, earn professional credits and obtain ASHRAE certifications. Chicago also serves as the site of the **AHR Expo**, co-sponsored by ASHRAE and held in conjunction with the Winter Conference. The two events combine to create the ideal atmosphere for those interested in advancing the building industry to network, inspect the latest technology and learn about the newest practices for the built environment. Don't miss the chance to participate and share your experience and thoughts with our chapter members during the February chapter meeting.

I look forward to seeing you all at our upcoming chapter meetings.

Thank you.

Ibrahim M. Semhat
 Chapter President 2014/2015
 ASHRAE London Canada Chapter

Upcoming Chapter Meetings

Feb 23/2015 - Career opportunities for students in ASHRAE
 Mar 23/2015 -
 April 23/2015 - ASHRAE WEBCAST, Retro-commissioning and the Life Cycle Cost Analysis
 Apr 27/2015 - Technical Tour
 June 1/2015 - Golf Tournament

Other Meetings

Jan 24 to 28, 2015 = ASHRAE Winter Conference - Chicago, IL
 June 27 to July 1, 2015 = ASHRAE Annual Conference - Atlanta, GA
 Jan 23 to 27, 2016 = ASHRAE Winter Conference - Orlando, FL
 Jun 25 to 29, 2016 = ASHRAE Annual Conference - St. Louis, MO
 Jan 28 to Feb 1, 2017 = ASHRAE Winter Conference - Las Vegas, NV

BAYMAR
 SUPPLY LTD.

Progressive HVAC Solutions

Eric Shaw - Sales Manager - London District
 Phone: (519) 964-0022 Inwats: (888) 296-2357
 Fax: (519) 440-7039 E-Mail: eshaw@baymarsupply.com
 on the web: www.baymarsupply.com

RECO

DOUSQUET
 Technologies

MITSUBISHI
 ELECTRIC
 Changes for the Better

VENMAR CEE

DURELL

CONTROL SYSTEMS INC.

Your Partner in Energy Savings...

Delta
 CENTRALES

BACnet

www.durellcontrols.com

John Xiang, P.Eng., LEED AP BD+C - Systems Manager

johnx@purellcontrols.com

Phone (519) 652-5502

Fax (519) 652-6265

3392 Wonderland Rd. S., Bldg. 9, Units #1 & 2, London, Ontario N6L 1A8

HVAC
 ACCESS
 LIGHTING
 Heating & Cooling

IRONROSS Price Sales

Manufacturer Representatives for Industrial & Commercial Air
 Handling Products
 Members of London, Windsor and Hamilton Chapters
 George Clark • Jim Ironside • Kirk McLeod
 Mike Popofski • Jon Popofski • Larry Mills (Sarnia)

8-75 Saltsman Drive
 Cambridge, ON

N3H 4R7

Phone: 519-653-9470 Fax: 519-653-7853

Email: lvdyer@ironrosspricesales.com

Website: www.ironrosspricesales.com

changeair
 a systemair company
 Kevin McGachy P. Eng
 Sales Director
 USA / Canada

Changeair
 8 Rouse St.
 Tillsonburg, ON
 Canada N4G 5W8

Tel. +1 519 688 6363
 Cell. +1 519 550 3307

kevin.mcachy@systemair.net
www.systemair.net
www.changeair.com

systemair

PALSER
 ENTERPRISES LTD.

Rich Palser
 President

rpalscr@palserent.com
www.palserent.com

PalserEnterprises

@palserent

London, Ontario
 tel. 519-471-8382
 fax. 519-471-1049

cell. 519-494-2255

Concord, Ontario
 tel. 905-738-5200
 fax. 905-738-8111

Business Card Ads

Place your business card HERE
 contact:
 Jordan Foster
 <Jordan.Foster@chorley.com>

STUDENT ACTIVITIES & YEA

An event will be planned for early Feb 2015 - stay tuned for updates

Thanks,
Ben Oliver
Student Activities Chair 2014/2015
ASHRAE London Canada Chapter

RESEARCH

The London Canada Chapter Board has contributed to ASHRAE Reserach - Have You ???

Our 2014-2015 Research Promotion is underway. Our Chapter is a global RP leader: consistently placing among the top chapters by contributions per member. This year we are on track to meet our target. We have raised \$2,015 to date toward our goal of \$12,500. Our Board is leading the way with a phenomenal Full Circle contribution. We tripled the requirement for that milestone.

As we continue through the year please feel free to contact John Freeman or myself if you have any questions about the Campaign. We will be in touch with each of you as Research Promotion is the essence of ASHRAE; it keeps our engine running. Thank you for your amazing support and have a terrific 2015.

Jamie Kruspel and John Freeman
Research Co-Chairs 2014/2015
ASHRAE London Chapter

REGION 2 NEWS

I am happy to report that ASHRAE Region II has shined once again this year with the Technology Awards. First place in the existing other institutional buildings category for the Centre Civique de Dollard-des-Ormeaux Project in Montreal.

The Student Activities committees are being very dynamic with the petition for 3 new student branches, two in Quebec city and one in Toronto.

YEA members from the Hamilton and London chapters have held an Ultimate Frisbee match last October.

Jeff Watson from the London chapter will be our Region 2 representative to the LeaDRS program at the upcoming Chicago winter meeting. It will be an opportunity for him to better understand how ASHRAE works.

Regards
Isabelle Lavoie <Isabelle.M.Lavoie@jci.com>
ASHRAE Region 2
Director And Regional Chair (DRC)



www.somersep.com

Daryl Somers, CET

96 Meg Drive, London, Ontario N6E 3T7
Phone: 519-681-1977 Fax: 519-686-9324 Cell: 519-670-7720
Email: daryl@somersep.com



TRANE

Norm Clarke, P. Eng.
District Manager

Trane Canada
8 Belleisle Court
London, On N5V 4L2
Tel 519 453 3010
Fax 519 453 3024
Windsor Tel 519 256 7922
Sarnia Tel 519 337 0740

Jason Vandenberghe Technical Sales Representative



Sales & Marketing Inc.

4390 Paletta Court Burlington, ON L7L 5R2
Bus: (905) 631 5815 Fax: (905) 637 8655
G.T.A. Bus: (647) 288 0980 Cell: (519) 670 8066
Email: jasonv@aquatech.ws
www.aquatech.ws



ENGINEERING LTD

Jim Bender, P.Eng.
Contracting Sales
#6 - 320 Neptune Cres.
London, ON N6M 1A1
Tel: (519) 457-6700
Fax: (519) 457-8900
bender@hitseng.com

Toll Free: (800) 341-3110



1 Royal Gate Boulevard, Unit J
Vaughan, ON Canada L4L 8Z7

Arun Arora
Account Executive

Tel: 905-264-6372 Ext. 204
Fax: 905-264-6432

aarora@belnor.com

www.belnor.com

SPEAKER BIO

Victor Goldschmidt **Emeritus Mechanical Engineering Professor** **Purdue University (Indiana)**

Now residing in Northport, Michigan

Victor received his BS in Mechanical Engineering from Syracuse University, his MS in Mechanical Engineering from University of Pennsylvania and a Ph.D. from Syracuse University. Victor spent 34 years educating Mechanical Engineering students and directing graduate research; he has published over 200 papers ranging from fundamental research on turbulent flows, to performance and modeling of HVAC equipment. In his tenure, he received the Golden Key Award and Outstanding Teacher Award in 1992.

From 1995 through 2000 he served as Head of the Freshman Engineering Department. Prior to being an instructor, Victor worked as an Applications Engineer and a Development Engineer for Minneapolis Honeywell. As a trained (Synectics) facilitator he leads problem solving, strategic planning, new product development workshops and a variety of training sessions.

Victor is an honorary member of the AAF (Argentine Association of Cold), ACAIRE (Colombian Association of Air Conditioning and Refrigeration), ASURVAC (Uruguayan Association of Refrigeration, Ventilation and Air Conditioning), and IIR (International Institute of Refrigeration). He is a Fellow of ASHRAE, a past member of ASHRAE's Board of Directors and now serving as a Distinguished Lecturer and in the Appeals Board for Standards, and attends at the Northern Section of the Western Michigan Chapter. As a past elected Leelanau Township (MI) Trustee he currently serves as a County Planning Commissioner.

TOPIC

"Thinking Like an Engineer and Societal Challenges" **Victor Goldschmidt, creating2@earthlink.net**

After 40 years lecturing to Mechanical Engineering students the presenter has evolved and reconsidered what his purpose should have been as an educator. It goes beyond transfer of information and mastery of a necessary set of tools. It also goes further than applying those tools in the art of problem solving. The presentation will highlight the nature of engineering thought processes, recognizing the role in problem solving, looking for alternatives, using creativity, thinking in a pragmatic manner, considering safety, and always asking questions. Societal problems exhibiting failure in thinking like engineers will be presented. These are to be examples and challenge for critical thinking on the part of engineering professionals while responsibly servicing society.

ASHRAE Webcast

New Tomorrows for Today's Buildings: Existing Building Commissioning

ASHRAE's upcoming webcast, titled New Tomorrows for Today's Buildings: Existing Building Commissioning, will broadcast live on April 23, 2015, from 1:00 – 4:00 pm EDT. This FREE webcast is brought to you by the Chapter Technology Transfer Committee.

"The presenters will distinguish between new building commissioning, existing building commissioning, and retro-commissioning," said Nathan Hart, Chair of the CTTC Webcast Ad Hoc Committee. "Viewers will learn how to manage the commissioning process to minimize the impact on building functions and occupants, and how to integrate elements of existing building commissioning into the operation and maintenance staff's daily activities. The focus will be on maximizing energy efficiency and ROI."

The webcast presenters are:

Bob Baker, OPMP, Fellow ASHRAE | Managing Director | BBJ Consulting | Riverview, FL
Jim Vallort, Fellow ASHRAE | Practice Leader | Environmental Systems Design Inc. | Chicago, IL
Ron Wilkinson, P.E., CPMP | Commissioning Authority | Glumac | Seattle, WA

Online registration for the webcast will begin on March 23, 2015

ASHRAE London Canada Chapter is planning on arranging a site to view the webcast - stay tuned for more information.

Chicago Releases Data on First Year of Benchmarking

The City of Chicago released its first-ever energy benchmarking report from data collected under the Energy Benchmarking Ordinance. The 2014 City of Chicago Building Energy Benchmarking Report finds millions of dollars in savings are possible in the city's largest nonresidential buildings. The findings are based on the first set of benchmarking data from 2013, provided by building owners and managers (or their representatives) who have measured, verified, and reported their energy usage. The citywide effort included 348 of Chicago's largest buildings, representing 260 million square feet of space and approximately 11% of citywide energy use in buildings. According to the ordinance, municipal and commercial buildings 250,000 square feet and over were required to comply by June 1, 2014; the overall compliance rate was over 90%. Next year, residential buildings over 250,000 square feet and commercial buildings from 50,000 to 250,000 square feet will be phased in and will benchmark, verify, and report their energy use by June 1, 2015. All buildings that reported in 2014 will benchmark and report by June 1, 2015, but are not required to verify data again until 2017. Professionals certified by ASHRAE as Building Energy Assessment Professionals (BEAP) were included as approved providers for this new service. Information on this ASHRAE certification can be found at www.ashrae.org/BEAP.

ASHRAE 2015 Winter Conference Technical Program: New Tracks Address Industry's Big Needs

With more than five new tracks, 100 sessions and 400 speakers, the Technical Program at ASHRAE's 2015 Winter Conference capitalizes on the wide range of systems, equipment and applications in the Chicago area to present several relevant and timely programs. "With the Conference being held in the big city of Chicago, the Technical Program itself is going big with a focus on big projects, the big picture and big impacts with the intent of presenting big results for engineers, contractors, manufacturers and building professionals," Doug Cochrane, Conference chair, said. The Conference takes place Jan. 24-28, Palmer House Hilton, while the ASHRAE co-sponsored AHR Expo is held Jan. 26-28, McCormick Place. Complete Conference information and registration can be found at www.ashrae.org/chicago, and Expo information at www.ahrexpo.com. The Technical Program begins Sunday, Jan. 24, with special hour-long interactive sessions with audience participation, followed by a networking coffee break. It concludes Wednesday, Jan. 28. The Technical Program offers over 200 Professional Development Hours, as well as Continuing Education Units, which can be applied toward a Professional Engineering license. The Conference features papers and programs for eight tracks, which address trends in the industry and also are relevant to the design community in the area. The tracks are:

- * Systems and Equipment: The proper selection of HVAC&R for a job is critical. This track covers considerations for a proper functioning system.
- * Fundamentals and Applications: Basic HVAC&R principles are key in any project. Knowing what they are helps to apply in specific projects. This track covers a broad array of pertinent information.
- * New! Industrial Facilities: Manufacturing and processes can have different requirements for HVAC&R. This track explores design and practices for industrial buildings.
- * New! Large Buildings: Mission Critical Facilities and Applications: Facilities like data centers have different characteristics. This track looks at what is required for these unique applications.
- * Energy Efficiency: Energy efficiency is on everyone's mind as energy costs continue to rise. This track covers an array of considerations to help drive toward net zero energy.
- * New! Life Safety: This encompasses egress, sprinklers, alarms, emergency lighting, smoke barriers and special hazard protection. This track provides the tools for all the factors to consider in life safety and lessons learned.
- * New! Design of Energy and Water Efficient Systems: The trend is to green sustainable buildings. This track looks at what works and what doesn't to attain these efficient systems.
- * New! Hospital Design and Codes: Healthcare design takes into account some unique aspects. This track explores design and code requirements to ensure patient comfort.

ASHRAE Returns to Chicago!

Winter Conference
January 24-28

AHR Expo
January 26-28



2015 Winter Conference
Jan. 24-28/2015
Palmer House Hilton, Chicago, IL

AHR Expo
Jan. 26-28/2015
McCormick Place, Chicago, IL

ASHRAE is excited to return to Chicago for the 2015 Winter Conference, its historically best-attended event. Attendees can discuss the latest topics in the building industry; participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications. Chicago also serves as the site of the AHR Expo, co-sponsored by ASHRAE and held in conjunction with the Winter Conference.

The two events combine to create the ideal atmosphere for those interested in advancing the building industry to network, inspect the latest technology and learn about the newest practices for the built environment. Don't miss the chance to participate!



ASHRAE's Government Affairs in 2014: A Year of Many Accomplishments with Much to Look Forward to in 2015

When it comes to government affairs, this past year has been one of ASHRAE's busiest on record, and a big thanks goes out to all of the volunteers, staff, and friends in other associations that have helped make 2014 so successful. The Society has used its vast volunteer-developed and driven technical expertise to help policymakers at all levels of government craft better legislation and regulations by informing them of the great work of our members, including our standards, guidelines, professional certifications, research, publications, conferences, and related activities. We've played key roles on many bills that were considered, passed, and in some cases, signed into law. The Society has also commented on several proposed federal rulemakings and information requests.

The work of the new (114th) Congress is already underway, with the first 100 days promising to be especially busy. At the same time, federal agencies will continue their rulemaking activities. Looking forward, ASHRAE is well-positioned to build on last year's accomplishments as we seek to fulfill our mission of advancing the arts and sciences of heating, ventilating, air conditioning and refrigerating to serve humanity and promote a sustainable world. Together, we are shaping tomorrow's built environment today.

Below is a snapshot of what we've accomplished in 2014:

- Submitted comments on the following rulemakings:
 - o U.S. Department of Energy (DOE):
 - § AHRI Petition for Repeal of Final Rule for Test Procedures for Residential and Commercial Water Heaters
 - § Energy Conservation Standards for Small, Large, and Very Large Air-Cooled Commercial Package Air Conditioning and Heating Equipment
 - § Request for Information on Planning for the 2017 Solar Decathlon and Beyond
 - o U.S. Environmental Protection Agency (EPA):
 - § Proposed Rule for Carbon Pollution Emission Guidelines for Existing Stationary Sources: Electric Generating Units
 - o U.S. Department of Housing and Urban Development (HUD):
 - § Updating Energy Efficiency Standard for Multifamily Homes to 90.1-2007
 - U.S. Agency for International Development (USAID):
 - o Request for Information on the Partnership on Climate Data and Information on Resilient Development
 - Nominated ASHRAE Presidential Member Kent Peterson to the U.S. General Services Administration's Green Building Advisory Committee (GBAC).
 - o Kent has been accepted to another term on the GBAC.
 - Helped draft and organize NGO and Capitol Hill support for passage of the following bills:
 - o Energy Efficiency Improvement Act (formerly known as the Better Buildings Act) (H.R.2126)
 - § Passed by the House by a vote of 375 to 36.
 - § Considered, and nearly passed by the Senate.
 - o Streamlining Energy Efficiency for Schools Act (H.R.4092)
 - § Passed the House by unanimous consent.
 - o Energy Savings and Industrial Competitiveness Act (S.2074, S.2272)
 - § Considered and nearly passed in the Senate, twice.
 - o National Defense Authorization Act (NDAA) for Fiscal Year 2015 (H.R.3979)
 - § Signed into law by President Obama.
 - § Worked with several stakeholder organizations, including the National Association of Home Builders (NAHB), House and Senate Armed Services Committee and Committee members to support inclusion of a reference to ICC 700 National Green Building Standard in the report for the NDAA for Fiscal Year 2015.
 - Supported the following bills during the drafting phase and/or following introduction:
 - o Workforce Innovation and Opportunity Act (H.R.803)
 - § Signed into law by President Obama.
 - o Energy Savings Through Public-Private Partnerships Act (H.R.2689, S.1308)
 - § Passed by the House Energy and Commerce Committee.
 - o Energy Efficient Government Technology Act (H.R.540, S. 1261)
 - § Incorporated into the Energy Efficiency Improvement Act (H.R.2126), which passed the House by a vote of 375 to 36.
 - o A Bill To Encourage benchmarking and disclosure of energy information for commercial buildings (H.R.3820)
 - § Incorporated into the Energy Efficiency Improvement Act (H.R.2126), which passed the House by a vote of 375 to 36.
 - Access to Consumer Energy Information ("E-Access") Act (H.R.5073)
 - Property Assessment Protection Act (H.R.4285)
 - Championed a sign-on letter to the Senate Appropriations Committee in support of building energy codes and standards in the Energy and Water Appropriations Bill for Fiscal Year 2015.
 - Played a key role in organizing NGO and Capitol Hill opposition to building energy codes and standards language included in the report for the House Energy & Water Appropriations Bill for FY 2015.
 - Working with NAHB, energy efficiency advocacy groups, technical societies, and Reps. Marsha Blackburn (R-TN) and Kurt Schrader (D-OR) to improve building energy codes and standards language in the Energy Savings and Building Efficiency Act (H.R.5027).
 - Submitted a floor statement for Representative Rosa DeLauro (D-CT) on the release of the 2012 CBECS data.
 - Submitted testimony to the Senate Committee on Homeland Security and Government Affairs for a hearing entitled "Examining Conference and Travel Spending Across the Federal Government".
 - Sent a letter to the House Energy and Commerce Committee supporting the Streamlining Energy Efficiency for Schools Act (H.R.4092).
 - Sent a letter to the House Ways and Means Committee in support of the Mechanical Insulation Installation Incentive Act (H.R.184).
 - Issued Three Action Alerts:
 - o Encouraging ASHRAE members to submit comments on DOE's notice of proposed rulemaking on energy conservation standards for small, large, and very large air-cooled commercial package air conditioning and heating equipment.
 - o Encouraging ASHRAE members to support passage in the Senate of the Energy Efficiency Improvement Act (H.R.2126).
 - o Encouraging ASHRAE members to support inclusion of the reference to ICC 700 in the NDAA FY 2015 (H.R.3979).

ASHRAE Expands Scope, Renames Research Journal

ATLANTA – In recognition of the changing role of HVAC&R since it was first published 20 years ago, ASHRAE's HVAC&R Research has a new title, an expanded scope and an updated look.

Beginning in January 2015, the journal will be known as Science and Technology for the Built Environment. All manuscripts in process now will be published in the journal under its new name. Learn more at www.ashrae.org/stbe.

"This new name reflects its expanded scope, which includes papers in many areas of science and technology for the built environment," Reinhard Radermacher, Journal editor, said. "In addition to traditional areas of research in HVAC&R, the Journal's papers now often cover topics that have come to be associated with the industry since the Journal was first published in 1995. These include smart buildings, thermal comfort, aircraft ventilation and automotive climate technology. Science and Technology for the Built Environment will offer comprehensive reporting of original research in science and technology related to the stationary and mobile built environment."

Future article topics include:

- Indoor environmental quality, occupant health, comfort and productivity
- HVAC&R and related technologies
- Thermodynamic and energy system dynamics, controls, optimization, fault detection and diagnosis, smart systems and building demand-side management
- Experiments and analysis related to material properties, underlying thermodynamics, refrigerants, fluid dynamics, airflow, and heat and mass transfer
- Renewable and traditional energy systems and related processes and concepts
- Integrated built environmental system design approaches and tools
- Novel simulation approaches and algorithms and validated simulations
- Building enclosure materials, assemblies, and systems for minimizing and/or regulating space heating and cooling modes
- Review articles that critically assess existing literature and point out future research directions

Just as before with HVAC&R Research, Science and Technology for the Built Environment will accept for publication only works reporting on research that is original and of lasting value. This journal will continue to be published by Taylor & Francis Group on behalf of ASHRAE and be included in the Web of Science and Current Contents Connect databases.

ASHRAE Announces Call for Papers for 2016 Winter Conference, January 23-27, Orlando

ATLANTA – ASHRAE has announced a call for papers for its 2016 Winter Conference in Orlando, Fla., Jan. 23-27.

"The 2016 ASHRAE Winter Conference will have a fresh feel with new tracks focused on design-build practices and residential systems. We'll continue our emphasis on energy efficiency and sustainability while addressing current engineering and construction practices outside of the U.S. and Canada. We're also taking one of the most attended conference program styles and making an entire track out of debates. I think we'll be offering our attendees some great programs that align well with current trends in HVAC&R engineering," Jennifer Leach, conference chair, said.

The increasing choice of Design Build project delivery brings the contractor and designer together on the same team. The track explores the challenges and benefits, highlights successful projects and addresses several topics, including contracts and alternative design and construction processes.

The Modern Residential Systems Track presents energy efficient solutions and the latest advances ranging from glazing to water heating to lighting for the residential market.

The inventive aspect of engineering is covered in the Cutting Edge Technologies Track, exploring the efforts to achieve net zero energy buildings. Papers and programs address recent advances in HVAC&R system design, equipment and construction techniques including the responsible use of resources and energy recovery.

With ingenuity comes the debate as to the best practices where there may be divergent methods for accomplishing the same task. The Great Debate Track seeks to bring a lively discussion in a point, counterpoint format on the "best" approach for a certain project.

In addition, the 2016 ASHRAE Winter Conference also seeks papers addressing advances and practices across HVAC&R systems, equipment, fundamentals and applications, especially for the International Design Track.

ASHRAE offers two types of paper submissions:

- * Conference Paper Abstracts due March 23, 2015. Upon acceptance, papers will be due July 6, 2015. These "final" papers undergo a single-blind review, are submitted as a PDF and have an eight single-spaced page maximum length.

- * Full Technical Papers due April 20, 2015. Papers submitted for review must be both technically accurate and clearly written. These papers undergo a rigorous double-blind review and can be a maximum of 30 double-spaced pages.

To submit a Conference paper abstract or a technical paper and for more information about the tracks, go to www.ashrae.org/orlando.

The 2016 Winter ASHRAE Conference takes place at the Hilton Orlando. Held in conjunction with the 2016 Winter Conference is the ASHRAE co-sponsored International Air-Conditioning, Heating, Refrigerating Exposition, Jan. 25-27, 2016 Orlando Convention Center. The AHR Expo will attract some 60,000 professionals and the ASHRAE Conference will attract some 4,000 attendees and meeting participants.

Recipients of Technology Awards Announced by ASHRAE

ATLANTA – Buildings designed for a range of occupant types and uses – including penguins, patients, skaters, students, government employees and water testers – are being recognized for innovative design with ASHRAE Technology Awards. The awards recognize outstanding achievements by ASHRAE members and building owners who have successfully applied innovative building design. Their designs incorporate ASHRAE standards for effective energy management and indoor air quality and serve to communicate innovative systems design. Winning projects are selected from entries earning regional awards.

First place awards are presented at the ASHRAE 2015 Winter Conference, Jan. 24-28, Chicago, Ill.
Some summaries of the projects receiving first place include:

Antarctica: Empire of the Penguin: William C. Weinaug Jr., P.E., vice president, exp U.S. Services Inc., Maitland, Fla., receives first place in the existing industry facilities or processes category for the Antarctica Empire of the Penguin animal exhibit and ride attraction, Orlando, Fla. The facility is owned by Sea World Parks and Entertainment Inc. The building includes a 6,000 square foot immersive dark ride and penguin exhibit in a 30,000 square foot space, including spaces for bird holding, brooding and life support systems. The project included a major expansion and renovation to an existing penguin encounter, with a portion of the original space, animal pools and life support spaces reused to save costs.

Centre Civique de Dollard-des-Ormeaux: Kateri Héon, Ing., project manager; and Pietro Guerra, Ing., mechanical-electrical director; exp, Montreal, Quebec, receive first place in the existing other institutional buildings category for Centre Civique de Dollard-des-Ormeaux, Quebec. The building is owned by the Ville de Dollard-des-Ormeaux. The 225,000 square foot building features three National Hockey League regulation-size skating rinks, swimming pools, the town's city hall and library and a cultural center. An energy efficiency program was developed to increase the performance of the refrigeration system for the three indoor rinks and then to recover the energy rejected from the center compressors to heat the building.

Federal Center South – Building 12021: Benjamin Frank Gozart, engineer; Tom Marseille, P.E., managing director; WSP; Charles Chaloeicheep, P.E., WSP Built Ecology; Seattle, Wash.; Tom Boysen Jr., P.E., senior project manager, Sellen Construction, Seattle, Wash.; receive first place in the new commercial buildings category for Federal Center South, Building 12021, Seattle, Wash. The building is owned by the U.S. General Services Administration. Federal Center South is a three-story, 209,000 square foot facility with the U.S. Army Corps of Engineers Seattle District as the exclusive tenant. The project used an integrated design approach that focused on energy conservation measures vs. expensive on-site energy generation strategies.

Janesville Ice Arena Addition and Renovation: Jason Troy LaRosh, P.E., mechanical engineer, Angus-Young Associates, Janesville, Wis., receives first place in the existing public assembly category for the Janesville Ice Arena addition and renovation. The building is owned by the City of Janesville. The project included renovation of the existing 26,000 square foot arena with the addition of 2,000 square feet that included new locker rooms, an ice resurfacing melt pit and resurfacing equipment storage area. The original ice refrigeration system, installed in 1964, was a direct refrigeration system that used R-22 refrigerant circulated in piping embedded in the floor. The new system incorporates a pond loop geothermal system to handle the high refrigeration needs of the arena. The system uses a city owned pond as thermal storage to pull and reject heat to the ice refrigeration system which is made up of three water source heat pumps.

Peace Island Medical Center: Mark Stavig, P.E., principal, CDi+Mazzetti, Lynnwood, Wash., receives first place in the new health care facilities category for Peace Island Medical Center, San Juan Island, Wash. The building is owned by PeaceHealth. The building, a 40,000 square foot high performance, critical access hospital and clinic, contains 10 inpatient beds, emergency and imaging areas, surgery departments and an ambulatory outpatient clinic with a cancer care center. Island resources are limited, which made sustainable choices vital and simple design necessary. The mechanical system was designed to use only electricity, the only available energy source on the island. The project employs numerous energy efficiency measures and achieves an average EUI of 87.7 kBtu/square foot per year

Tacoma Center for Urban Waters: Matthew William Longsine, P.E., associate, and Henry Di Gregorio, senior vice president, WSP, Seattle, Wash., receive first place in the new other institutional buildings category for the Tacoma Center for Urban Waters, Tacoma, Wash. The building is owned by the National Development Council, HEDC Public-Private Partnerships on behalf of the City of Tacoma. The 51,000 square foot lab facility functions as a shared research facility for the City of Tacoma, the University of Washington and Puget Sound Partnership. It focuses on receiving and analyzing water samples from the waterways of Tacoma and surrounding areas. Design features include heat recovery, energy efficient lighting, daylighting, natural ventilation, radiant floors, low-e glass and exterior operable shading, variable air volume low flow fume hoods, low flow plumbing fixtures, rainwater harvesting, green roof and energy efficiency HVAC&R components. One of most innovative features is a geoechange system.

Westhills Recreation Center: Art Sutherland, president, Accent Refrigeration Systems, Victoria, British Columbia, receives first place in the new public assembly category for the Westhills Recreation Center, Langford, British Columbia. The building is owned by the City of Langford. The 75,000 square foot recreation facility includes a National Hockey League size indoor ice rink, an outdoor ice rink, a skating trail joining the two together, a bowling alley, offices and a restaurant. The mechanical system for the three ice surfaces are integrated into the building HVAC system to the extent that no fossil fuels are used for the facility other than in the kitchen.

For other projects and more informations see:

<https://www.ashrae.org/news/2014/recipients-of-technology-awards-announced-by-ashrae>

New Tomorrows for Today's Buildings: Existing Building Commissioning

April 23, 2015 | 1–4pm EDT



www.ashrae.org/webcast



Thomas H. Phoenix,
P.E., FellowASHRAE,
BEAP, BEMP



Robert G. Baker,
OPMP, Fellow
ASHRAE

This webcast will feature industry experts who will define the benefits of existing building commissioning for the environment, occupants, operations staff, and overall ownership costs. Viewers will be able to recognize the varied scopes of commissioning, when to apply comprehensive versus focused commissioning, and best practices in existing building commissioning specifications & contracting.



James K. Vallort,
Fellow ASHRAE



Ronald J. Wilkinson,
P.E., CPMP

Earn PDHs!

Attend this FREE webcast program and you may be awarded three Professional Development Hours (PDHs).

