



Save The Date!

ASHRAE Hosts DOAS Webcast April 19, 2012



ASHRAE's upcoming webcast, "Dedicated Outdoor Air Systems: A Path to Balancing Energy and IEQ" will discuss the role of Dedicated Outdoor Air Systems in the overall HVAC system and describe various DOAS equipment configurations, characteristics, and applications. This webcast will identify common design and operational pitfalls, and cover challenges unique to DOAS.

The webcast takes place April 19, 2012 from 1– 4 p.m. EDT.

"Based on growing popularity, the chosen topic for the 2012 webcast is Dedicated Outdoor Air Systems," Andy Cochrane, Chair of the CTTC Webcast Ad Hoc Committee, said, "This webcast will describe the role of DOAS in the overall HVAC system, and discuss various DOAS equipment configurations and applications. From understanding DOAS system characteristics, to avoiding pitfalls and challenges unique to DOAS applications, the webcast is a must see for discerning owners and designers alike."

The webcast presenters are Ronald "Ron" Jarnagin, 2011-12 ASHRAE President; Tim McGinn, P.Eng., LEED® Principal, Dialog, Calgary, AB, Canada ; Stanley A Mumma, Phd., P.E., Professor Emeritus, Pennsylvania State University, University

Park, PA; and John Murphy, LEED® AP, Applications Engineer, Trane, La Crosse, WI.

How to Participate:

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

Three (3) Professional Development Hours or three (3) AIAP Learning Units may be awarded to viewers who complete the "Participant Reaction Form" by May 3, 2012. If you are unable to participate in the live webcast, the program will be archived online until May 3, 2012. Registration will be necessary to view the archived program.

DVD's will also be available for purchase after the webcast. Please visit the Bookstore or call 1-800-527-4723 (US/Canada) for more information.

On-line registration for begins March 19, 2012 at ashrae.org/DOASwebcast. If you have any questions, call 678-539-1200 or email ashrae-webcast@ashrae.org. This free webcast is brought to you by the Chapter Technology Transfer Committee and sponsored by RotorSource, EngA, Engineered Air and Heat Pipe Technology. For more information about the program, presenters, continuing education credits, sponsorships, and heat pump resources please visit us at ashrae.org/DOASwebcast.

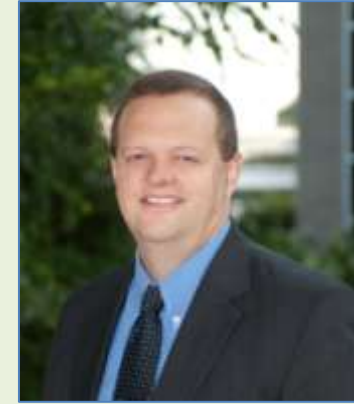
What Say You:

What does CTTC mean to ASHRAE?

"Without effective CTTC Chairs, the Society fails. If we can't get people to a meeting in a well lit, comfortable location; with an engaging, easily understandable speaker; to hear a timely topic of broad interest; with a quality meal; and in a convenient location....they won't stay in ASHRAE nor encourage their colleagues to (MP fails); they won't donate to research (RP fails); they won't encourage students or young engineers to participate (oops there go Student Activities and YEA). You get the point. We in the CTTC business are Society's contacts to the membership. WE make the first impression. You're doing great."

- Jeff Gatlin, Reg. VII DRC

Meet the Webcast Presenters



The webcast presenters are (left to right) Ronald "Ron" Jarnagin, 2011-12 ASHRAE President; Tim McGinn, P.Eng., LEED® Principal, Dialog, Calgary, AB, Canada; Stanley A Mumma, Phd., P.E., Professor Emeritus, Pennsylvania State University, University Park, PA; and John Murphy, LEED® AP, Applications Engineer, Trane, La Crosse, WI.

Distinguished Lecturer Program Brings ASHRAE Speaker to Your Chapter



Don't miss an opportunity to provide an outstanding program for your chapter by bringing a distinguished lecturer to your chapter. Contact your Chapter Technology Transfer Committee Regional Vice Chair (RVC) to find out if your chapter has been allocated a visit (RVC contact information is available on the DL webpage)

- Select a DL and topic from the database on the DL webpage www.ashrae.org/distinguishedlecturers
- Contact the DL to confirm the chapter visit
- Submit the Participation Form (available on the DL webpage) to your CTTC RVC.

Contact Tammy Catchings at 678-539-1123 or tcatchings@ashrae.org if you have questions.

ASHRAE Announces First Place 2012 Technology Award Winners

Roland Charneux

Pageau Morel
Montreal, QC, Canada
Sandy Treagus, Owner
Mountain Equipment Coop
Category I – Commercial Buildings – New
Mountain Equipment Coop
Region II
Jean-Gabriel Joannette, CTTC RVC

Ken Sonmor

Ecovision Consulting
Montreal, QC, Canada
Thomas Stabb, Owner
IKEA Distribution Services CA LP
Category I – Commercial Buildings – Existing
IKEA Brossard Distribution Center
Region II
Jean-Gabriel Joannette, CTTC RVC

René Dansereau

Dessau
Langueuil, QC, Canada
René Alarie, Owner
Université de Sherbrooke
Category II – Educational Facilities – New
Université de Sherbrooke–Campus de Longueuil
Region II
Jean-Gabriel Joannette, CTTC RVC

Paul Marmion

Stantec Consulting Ltd.
West Vancouver, BC, Canada
Marcus Akhtar, Owner
Laing Investments Management Services (Canada) Ltd.
Category III – Health Care Facilities – New
Abbotsford Regional Hospital and Cancer Centre
Region XI
N. Eileen Jensen, CTTC RVC

Blake E. Ellis

Burns & McDonnell
Kansas City, MO
Stephen K. Swinson, Owner
Thermal Energy Corporation
Category IV – Industrial Facilities or Processes – New
Thermal Energy Corporation – Thermal Energy Storage
Region IX
Thomas G. Lewis, CTTC RVC

Luc Simard

Compressor Systems Control (CSC) Inc.
Les Coteaux, QC, Canada
Eric Lachance, Owner
Municipalite St-Gédéon-de-Beauce
Category IV – Industrial Facilities or Processes – Existing
Arena Marcel Dutil
Region II
Jean-Gabriel Joannette, CTTC RVC



The Chapter Technology Transfer Committee's ASHRAE "**Hot Topics**" features a one-hour video presentation on **ANSI/ASHRAE/USGBC/IES Standard 189.1-2009, Standard for the Design of High Performance Green Buildings.**

The program is presented by Presidential Member **Kent Peterson**, the past Chair of SSPC 189.1.

The "Hot Topics" presentation is available for **streaming now at** www.ashrae.org/hottopics for use by chapters, sections, regions and student branches.

Become One of the More Than 1,000 Individuals Who Have Earned an ASHRAE Certification

ASHRAE will offer a special administration for all six certification programs at the 2012 Winter Conference and AHR Expo.

While you're in Chicago, take advantage of the opportunity to earn an ASHRAE certification. Apply for any of the programs at www.ashrae.org/chicagoexams. Seating is limited. Applications must be received by December 28, 2011.

Our programs continue to gain recognition by other organizations, such as USGBC, and government agencies, such as DOE and NYSERDA. Each program has been developed by subject matter experts to assess knowledge of a specific area of expertise, reflecting best practices, that a competent professional would have obtained through experience.

You can find more information about ASHRAE's certification programs at www.ashrae.org/certification.

Or, you can go directly to a program at:

www.ashrae.org/BEAP

www.ashrae.org/BEMP

www.ashrae.org/CPMP

www.ashrae.org/HFDP

www.ashrae.org/HBDP

www.ashrae.org/OPMP



ASHRAE's HVAC Design Essentials

Real-World HVAC Design Skills You Can Use Today

ASHRAE created the HVAC Design Essential Workshop to provide intensive, practical training for HVAC designers and others involved in the delivery of HVAC services. Developed by industry-leading professionals, this workshop provides you with the fundamental and technical aspects of HVAC design in commercial buildings.

In three days, you will gain practical skills and knowledge in designing, installing and maintaining HVAC systems that can be put to immediate use. The workshop provides real-world example of HVAC systems, including calculations of heating and cooling loads, ventilation and diffuser selection

using the newly renovated ASHRAE Headquarters building as a living lab. Engineered drawings of the ASHRAE Headquarters renovations will be incorporated to expose you to plan reading and graphical understanding of system design.

- **When: January 11-13, 2012**
- **Where: ASHRAE Foundation Learning Center, Atlanta, GA**
- **Cost: \$1,239 (ASHRAE Member: \$989)**

Enroll 3 or more participants from the same company and save!



Visit the CTTC Webpage

Visit the CTTC webpage at www.ashrae.org/cttc. There, you'll find information on the webcast, Distinguished Lecturer program, CTT Awards, Chapter Program Resources and so much more!

Consultant updates – all Power Points are posted [here](#).

- Government Activities
- Technology Council

- Refrigeration Activities
- Advocacy Activities

Advanced Energy Design Guides Continue To Make Impact

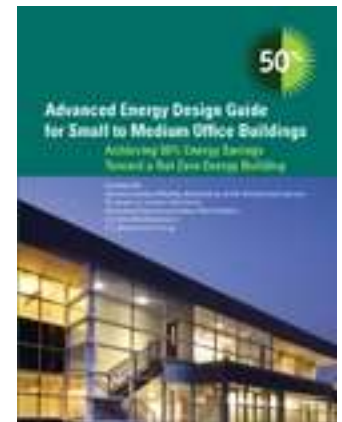
Inefficient lighting, uncontrolled plug loads and poorly insulated roofs are just few of the factors that can contribute to a failing grade in energy consumption for K-12 school buildings. Fortunately, guidance is available to help design teams constructing K-12 school buildings cut annual energy use by 50 percent or more using off-the-shelf technology.

To help ensure schools receive an A+ in energy efficiency; owners, engineers, designers, architects and others on the building team are encouraged to download the free Advanced Energy Design Guide for K-12 School Buildings: Achieving 50% Energy Savings Toward a Net Zero Energy Building. The guide is the second to be released in a series which provides recommendations to achieve 50 percent energy savings when compared with the minimum code requirements of ANSI/ASHRAE/IESNA Standard 90.1-2004, Energy Standard for Buildings Except Low-Rise Residential Buildings.

Advanced Energy Design Guides, or AEDGs, allow owners, contractors, consulting engineers, architects and designers to easily achieve advanced levels of energy savings without detailed energy modeling or analyses. Written in partnership with ASHRAE, the American Institute of Architects, the Illuminating Engineering Society of North America, the U.S. Green Building Council and the U.S. Department of Energy, the guides are available for free in electronic form at www.ashrae.org/freeaedg.

“Significant research demonstrates that the quality of the physical environment affects student performance,” Shanti Pless, chair of the steering committee, said. “An environment that includes appropriate lighting, sound, temperature, humidity, cleanliness, color and air quality can help students learn better. In many cases, improving these attributes can also reduce energy use.”

The new guide features easy-to-follow recommendations for various climate zones and how to implement tips via a series of real-life school construction case studies. Also included is information on integrated design, including best practices, as a necessary component in achieving 50% energy, and the inclusion of a performance path; specifically, offering guidance for early stage energy modeling and annual energy use targets to help with goal setting



(Continued on next page)

Advanced Energy Design Guides (Continued)

Additional design tips include:

- High performance building envelope that is better than Standard 90.1-2004.
- Different ways to daylight 100 percent of the floor area of classrooms, resource rooms, cafeterias, gymnasiums and multipurpose rooms for two thirds of school hours.
- Methods to achieve space-by-space interior lighting power densities that are, on average, 40 percent better than Standard 90.1-2004.
- Ways to reduced exterior (façade, walkway, parking lot and drive) lighting energy consumption.
- Recommendations for computers, vending machines, kitchen cooking equipment, walk-in refrigeration equipment, kitchen exhaust hoods and service water heating.
- Three different HVAC system types that achieve significant energy savings over a typical system.
- Recommendations for commissioning and measurement and verification to ensure that energy savings potentials are realized.

The AEDG also addresses the notion that energy efficient buildings are more expensive.

“Owners should not expect energy-efficient schools to cost more; they can cost more, but they shouldn’t have to. The tips, guidelines and tables included in the newest AEDG for K-12 schools can set building owners on their way to more energy efficient, productive schools in a cost efficient manner,” Pless said.

The 50% Advanced Energy Design Guide series follows an earlier six-book series that provided guidance to achieve 30 percent savings. The ultimate goal is to provide guidance to achieve net zero energy buildings; that is, buildings that, on an annual basis, produce more energy than they consume.

ASHRAE, AIA, IES, DOE and USGBC are currently developing the third guide in the 50 percent series, which will focus on medium/big box retail. Publication is targeted for winter of 2012, followed by large hospitals in the spring of that year. Advanced Energy Design Guide for K-12 School Buildings: Achieving 50% Energy Savings Toward a Net Zero Energy Building is available as a free download at www.ashrae.org/freeaedg.

Facts About Advanced Energy Design Guides

- Six guides in the 30% series including: Small Office, Small Retail, K-12 Schools, Warehouses, Highway Lodging, and Healthcare.
- Two guides published to date in the 50% series including: Small to Medium Office Buildings and K-12 School Buildings
- Two additional 50% guides in process: Medium to Big Box Retail due in January 2012 and Large Hospitals due in May 2012.
- Two existing buildings guides are also included in the series. The first one, a business case for building owners is published and available. The second one, a technical implementation guide will be available in late November.

Visit the webpage at www.ashrae.org/aedg