

# Tri-County Super Heat

ASHRAE  
American Society of Heating, Refrigeration, and Air-Conditioning Engineers

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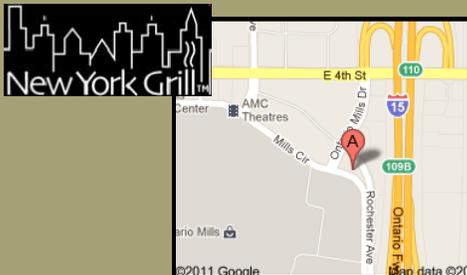


## *Meeting information*

### *President's message*

#### *Meeting Location*

Date: October 18, 2011  
 Location: New York Grill  
 Ontario, CA  
 Board Meeting: 5:00  
 Social Hour: 6:00-7:00  
 Dinner & Program: 7:00  
 Cost: \$35



We look forward to seeing you again next meeting. New York Grill is located just outside of the Ontario Mills Mall just southwest of 4th Street and the 15 Freeway.

Please e-mail Adam at adam.stadnik@gmail.com to reserve your spot for the upcoming meeting.

New York Grill  
 950 Ontario Mills Drive  
 Ontario, CA 91764

#### *Tri-County ASHRAE:*

Our first meeting was a huge success so I'd like to start with special thanks to all of our board members that helped set up our September meeting. I would also like to thank Joseph Filippi Winery for being our host. I for one (and I know that the others feel the same) would vote to have another meeting there in the future. We also had a lot of new faces and hope that we can continue to see that trend.

I know it's the beginning of the year but we are still looking for additional volunteers and there are ALWAYS opportunities to get involved. If you would like to get involved in any way, shape or form, please attend our meeting or contact any of the board members for more information.

We have our first presentation of the year this month. Distinguished lecturer (DL) Peter Simmonds, stops by to educate us on ASHRAE standard 55. This is the first DL we have had in a few years and I know that our programs chair worked hard to set this up so please come out and show your support.

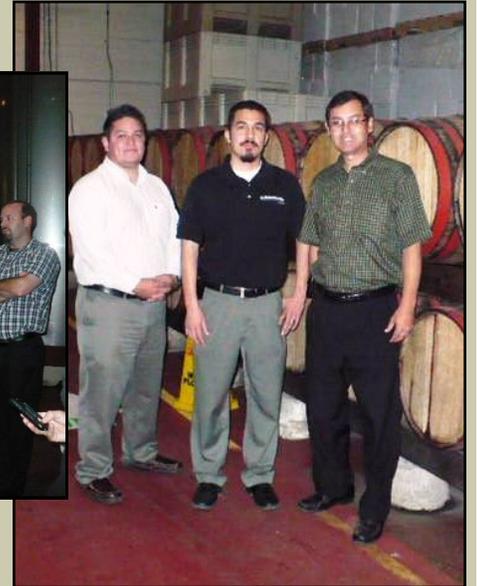
We have started off the year strong so help us keep it going. I look forward to see you all there.

P.S. – Did anyone notice the new newsletter format? Thanks to Adam Stadnik for re-vamping our newsletter, it looks great as always.

**JAIMELOPEZ**  
 President

NOTE: Statements made in this publication are not the expressions of the Society or of the Tri-County chapter but may not be reproduced without special permission of the Tri-County chapter.

# Past *gatherings*



*scattered*



*pictures*



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# Coming attractions

What's in store for you for the next few months at Tri-County ASHRAE?

## Check it out!

### november

INDIRECT FIRED HEATING AND NEW TECHNOLOGY

### december

YOUR ELECTRIC UTILITY IS HERE TO HELP YOU WITH ENERGY EFFICIENCY, DEMAND RESPONSE, AND DISTRIBUTED GENERATION

### january

TBD... WE'RE LOOKING FOR YOUR IDEAS!

## Up for next month...

### INDIRECT FIRED HEATING AND NEW TECHNOLOGY

#### Summary:

In this presentation, we will focus on indirect fired heating as a whole when it relates to the tempered make-up air market and new high efficiency solutions that exist for optimizing energy savings and equipment payback.

Many innovations have been introduced to the indirect fired market in recent years, most important being constant efficiency throughout the entire firing range. This is critical since most of the time during the heating season, the unit is operating in the low- to mid-fire portion of the modulating range. Since a typical indirect fired heater's efficiency degrades as it moves away from high-fire mode (i.e. on milder days), it is no longer operating efficiently with regard to energy consumption.

#### Speaker: Ricky Puri

Ricky Puri is currently Regional Development Manager with Rupp Air Management Systems and works extensively with tempered make-up air applications. Ricky holds a Bachelor's of Science Degree in Mechanical Engineering from the University of Minnesota. He is an active member of the local ASHRAE chapter.

## upcoming events

Don't miss out on the exciting events coming up in the meetings to come! Bring a buddy and enjoy the time with your friends and colleagues, and network within your industry!

# Meeting preview

## *High Performance buildings and Occupant Comfort*

This month, distinguished lecturer, Peter Simmonds, will illustrate that the Predicted Mean Vote/Percentage Persons Dissatisfied (PMV/PPD) can be used to produce optimal designs for a number of different applications. Applications have shown that using comfort criteria as design criteria has provided clients with information on how to improve occupant comfort and improve building efficiency.

Previous work by Simmonds has shown that the effects on comfort results when varying clothing levels and metabolic rates of occupants is relatively small compared to changes in the engineered variables such as dry bulb temperatures, humidity, air velocity and mean radiant exchange. This lecture will show the results of the design process for each of the buildings explaining the intricacies of each solution and show that the new ASHRAE standard 55 can be used as an effective design and analysis tool for modern designs.

Peter Simmonds has a Bachelor of Science degree in Mechanical Engineering and another in Research and Development from Reading Technical College, and a Master's degree from HTS, Den Bosch, The Netherlands and a Ph.D. from T.U. Delft. He has been a member of ASHRAE since 1989. Dr. Simmonds is a recognized authority in the field of Radiant heating and cooling systems. The main goals of his research and applications have been to understand the heat transfer and performance of radiant systems for both heating and cooling. His studies related to thermal performance of these systems led to a unique way to enhance in these systems. Publications of his work led to the development of radiant systems in the USA and are included in the ASHRAE Handbooks. He has received the Carter Bronze Medal from the Chartered Institution of Building Services Engineers in 1993.

He has authored or co-authored more than 60 technical papers, articles and books. He is a member of several ASHRAE Technical Committees and serves on the Handbook committee as well as Standard 55. Peter also teaches Graduate and Post Graduate Architectural students at the Southern California Institute for Architects in Los Angeles.

# Within the industry

## New Cool Tool from ASHRAE – Helps Predict Consistent Thermal Comfort

ATLANTA – An updated tool from ASHRAE provides a user-friendly interface to predict thermal comfort, based on the Society's standard for thermal environmental conditions.

ASHRAE *Thermal Comfort Tool, Version 2*, maintains consistency with ANSI/ASHRAE Standard 55-2010, *Thermal Environmental Conditions for Human Occupancy*. The standard specifies the combinations of indoor thermal environmental factors and personal factors that will produce thermal environmental conditions acceptable to a majority of the occupants within the space.

The tool makes thermal comfort predictions using several existing thermal comfort models, including the Adaptive and Predicted Mean Vote (PMV) models. Inclusion of these models can potentially improve occupant comfort by allowing engineers to more easily fine tune their comfort analysis to the particular needs of the occupants in the building.

"The software allows you to calculate the predicted thermal comfort for a human at a point in space," Bill Fleming, volunteer chair of ASHRAE's Publications Committee, said. "All you need to do a comfort analysis is some basic information about the thermal environment you want to model and a few things about the person you want to put in that environment."

The cost of the ASHRAE *Thermal Comfort Tool* is \$117 (\$99, ASHRAE members). To order, contact ASHRAE Customer Contact Center at 1-800-527-4723 (United States and Canada) or 404-636-8400 (worldwide), fax 404-321-5478, or visit [www.ashrae.org/bookstore](http://www.ashrae.org/bookstore).

## ASHRAE Winter Conference is Coming to a Chicago Near You!

ASHRAE is pleased to be returning to Chicago for the 2012 Winter Conference. Members have the chance to discuss and examine the latest topics in the building industry, such as high performing buildings and integrated design, as well as participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

Chicago will also serve as the site of the [AHR Expo](#), co-sponsored 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 in ASHRAE's historically best-attended Conference.

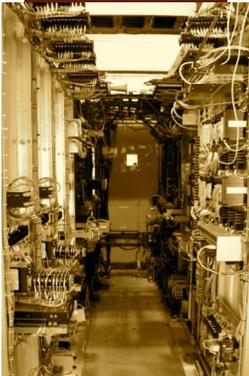
### Registration Costs

Early bird rates (by Oct. 31) for members, \$485; \$670 for non-members (includes one year of membership). Once online registration is completed, registrants receive an email confirmation from [orders@ashrae.org](mailto:orders@ashrae.org).

### [Chicago 2012 Registration Form \(PDF\)](#)

### Housing

The Palmer House Hilton serves as the ASHRAE Headquarters Hotel. Housing information is currently being e-mailed to all ASHRAE committee members. Those who serve on an ASHRAE committee and do not receive housing information, notify ASHRAE at [meetings@ashrae.org](mailto:meetings@ashrae.org). Those who do not serve on an ASHRAE committee and want to stay at the Palmer House must check the housing box on the registration form and the ASH-



# Educational opportunities

## ASHRAE Learning Institute 2011 Fall Online Course Series

### 2 WAYS TO REGISTER

Internet: [www.ashrae.org/onlinecourses](http://www.ashrae.org/onlinecourses)

Phone: Call toll-free at 1-800-527-4723 (US and Canada) or 404-636-8400 (worldwide)

Note: You may register up to 24 hours prior to an online seminar. Courses are in US Eastern Standard Time.



**Basics of High-Performance Building Design**  
Mon, September 19, 2011 – 1:00 pm to 4:00 pm EST

**Advanced High-Performance Building Design**  
Wed, September 21, 2011 – 1:00 pm to 4:00 pm EST

**Fundamental Requirements of ASHRAE Standard 62.1-2010**  
Mon, September 26, 2011 – 1:00 pm to 4:00 pm EST

**Complying with Standard 90.1-2010: HVAC/Mechanical**  
Thurs, September 29, 2011 – 1:00 pm to 4:00 pm EST

**Complying with Standard 90.1-2010: Envelope/Lighting**  
Mon, October 3, 2011 – 1:00 pm to 4:00 pm EST

**Healthcare Facilities: Best Practice Design**  
Mon, October 31, 2011 – 1:00 pm to 4:00 pm EST

**Healthcare Facilities: Best Practice Application**  
Wed, November 2, 2011 – 1:00 pm to 4:00 pm EST

**Evaluating the Performance of LEED-Certified Buildings**  
Mon, November 7, 2011 – 1:00 pm to 4:00 pm EST

**Project Management for Improved IAQ**  
Wed, November 9, 2011 – 1:00 pm to 4:00 pm EST

**The following courses are comprised of two parts. Registrants must attend both parts in order to receive CEU/PDH credits. Archiving is available.**

**Data Center Energy Efficiency – Part 1**  
Mon, October 10, 2011 – 1:00 pm to 4:00 pm EST

**Data Center Energy Efficiency – Part 2**  
Wed, October 12, 2011 – 1:00 pm to 4:00 pm EST

**Using Standard 90.1 to Meet LEED Requirements – Part 1**  
Mon, October 17, 2011 – 1:00 pm to 4:00 pm EST

**Using Standard 90.1 to Meet LEED Requirements – Part 2**  
Wed, October 19, 2011 – 1:00 pm to 4:00 pm EST

**Implementing Standard 189.1 for High-Performance Green Buildings – Part 1**  
Mon, October 24, 2011 – 1:00 pm to 4:00 pm EST

**Implementing Standard 189.1 for High-Performance Green Buildings – Part 2**  
Wed, October 26, 2011 – 1:00 pm to 4:00 pm EST



## ASHRAE HVAC Design Essential Workshop

January 11-13, 2012 • ASHRAE Foundation Learning Center • Atlanta, GA

### Obtain the skills needed to:

- Improve overall building performance
- Design high-performance HVAC systems
- Effectively collaborate on an integrated design team

ASHRAE has created the HVAC Design Essentials to provide intensive, practical education for designers and others involved in delivery of HVAC services. Developed by industry-leading professionals, this workshop provides participants with training design to accelerate their evolution into effective member on a design, construction or facilities maintenance team.

In addition to gaining in-depth knowledge and understanding, attendees will receive real-world examples of HVAC systems based on the newly renovated ASHRAE Headquarters building. The workshop teaches a systematic approach to guide a design team to a solution that optimally meets the client's expectations.

### Who Should Attend

- Engineers new to the HVAC industry
- Facilities managers involved in new construction or major renovation projects
- Technicians who would like to gain design knowledge
- Architects who want to understand HVAC design
- Construction project managers involved with mechanical systems



Visit [www.ashrae.org/hvacdesign](http://www.ashrae.org/hvacdesign) to register

### ASHRAE Certification Programs

- Building Energy Assessment Professional (BEAP)
- Building Energy Modeling Professional (BEMP)
- Commissioning Process Management Professional (CPMP)
- Healthcare Facility Design Professional (HFDP)
- High-Performance Building Design Professional (HBDP)
- Operations & Performance Management Professional (OPMP)

For more info, visit  
[www.ashrae.org/  
certification](http://www.ashrae.org/certification)

# 2011-2012 partial roster

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**Everyone in Tri-County is responsible for building a better tomorrow!**

## Tri-County Super Heat

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**20** PLUS  
YEARS  
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1996-1997	JOEL CARTER
1997-1998	CHANDRACHINDE
1998-1999	JIM TODA
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2003-2004	JOE SANDERS
2004-2005	BOB GASTEL
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2007-2008	KYLE LANDIS
2008-2009	RICK CREED
2009-2010	ROBERT MORSE
2010-2011	TIM HALD

— journal of the tri-county chapter of the —

*American Society of Heating, Refrigerating, and Air Conditioning Engineers*

ASHRAE, founded in 1894, is an international organization of 55,000 persons. Its sole objective is to advance through research, standards writing, publishing and continuing education the arts and sciences of heating, ventilation, air conditioning and refrigeration to serve the evolving needs of the public.