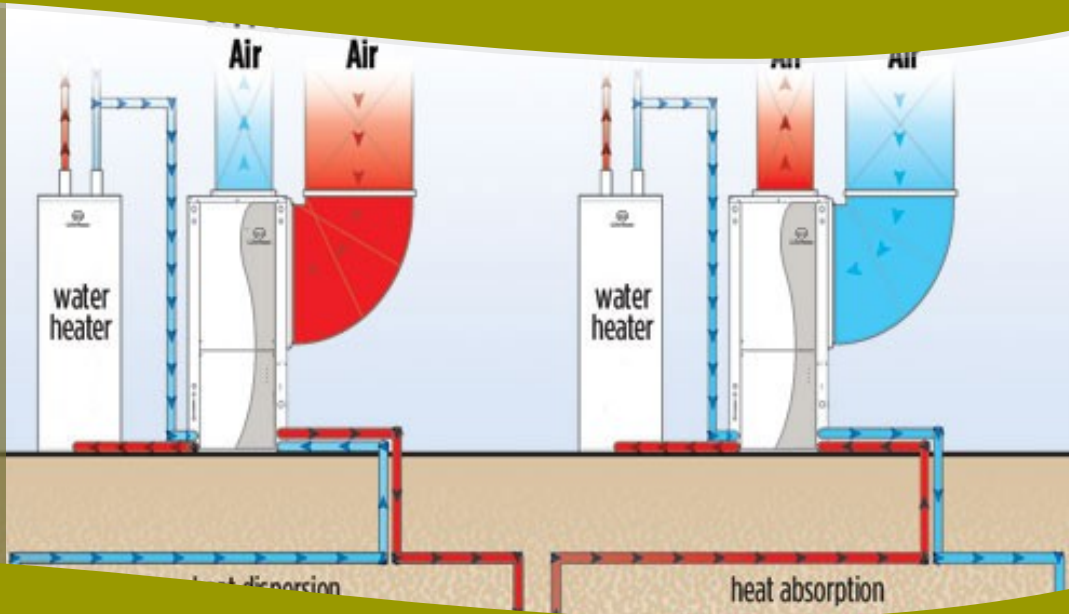


# Tri-County SUPER HEAT ASHRAE

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

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## MEETING INFORMATION

**Date:** February 18, 2014  
**Location:** Coco Palm  
 Pomona, CA  
**Social Hour:** 6:00-7:00  
**Dinner and Program:** 7:00  
**Cost:** \$40



We look forward to seeing you again at our next meeting. Coco Palm Restaurant is located on Restaurant Drive off of Fairplex Drive, just north of the 10 Freeway. Please e-mail Adam at [adam.stadnik@gmail.com](mailto:adam.stadnik@gmail.com) to reserve your spot for the upcoming meeting.

Coco Palm Restaurant  
 1600 Fairplex Drive  
 Pomona, CA 91768

## DISTINGUISHED LECTURER

### Alan Niles, Western Region Commercial Sales Manager, WaterFurnace International, Gig Harbor, WA

Alan Niles, Western Region Commercial Sales Manager for WaterFurnace International, is a mechanical engineer with over 24 years of experience working with manufacturers of commercial water source heat pumps (WSHPs) and ground loop heat pumps (GLHPs) concentrating on commercial tower/boiler system design and commercial geo-exchange system design. Since 2009, he has been at WaterFurnace International, a manufacturer of commercial and residential Water Loop and Ground Loop Heat Pumps. For 11 years, Alan had been a Regional Commercial Sales Manager at FHP Manufacturing, also a manufacturer of WSHPs and GLHPs. And for 10 years prior, he had been an Applications Engineer and later a Commercial Sales Engineer at Climate Master, also a manufacturer of WSHPs and GLHPs.

Alan Niles earned his BSME at the University of Oklahoma in 1987. He took course work in commercial GLHP system design from the International Ground Source Heat Pump Association (IGSHPA) and received IGSHPA certification for commercial ground loop design in 1989. In 1993, he received IGSHPA certification for the installation of ground loop system components.

Throughout his career, Alan Niles has been promoting energy efficient HVAC technology through presentations to local ASHRAE chapters, regional and national trade shows, and by providing technical assistance to architects and engineers in their design of high efficiency heating and cooling systems.

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# LOCAL BUSINESSES

PLEASE SUPPORT OUR BUSINESS CARD ADVERTISERS LOCATED HERE AND ELSEWHERE IN THIS PUBLICATION...

**MAKE AN INVESTMENT IN OUR INDUSTRY'S FUTURE!**

If you would like to place a business card ad in Super Heat for the 2013-2014 Tri-County ASHRAE season, please contact Adam Stadnik via e-mail at... [adam.stadnik@gmail.com](mailto:adam.stadnik@gmail.com)


**THANK YOU FOR YOUR SUPPORT!!!**

*Looking for a unique marketing opportunity? Have we got a deal for you! For only \$50 (that's right \$50!) you and many more can see your business card appear on THIS PAGE of THIS PUBLICATION for the 2013-2014 Tri-County ASHRAE season!*

*Now that you're interested, send a \*.jpg version of your business card to Adam Stadnik at [adam.stadnik@gmail.com](mailto:adam.stadnik@gmail.com) while sending a check for \$50 made out to Tri-County ASHRAE to Adam. Adam will let you know where to send the check when you send your business card file to him at his e-mail address.*

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*TCSH Editor*




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# MEETING PREVIEW

## **Commercial Ground Loop Heat Pump systems: Design and Economics**

On behalf of We are incredibly excited about our February meeting next Tuesday!! Our meeting on February 18 at the Coco Palm Restaurant in Pomona is set to have a couple great features including a visit from some members of the San Diego Chapter and a lecture on ground loop heat pump systems by an ASHRAE Distinguished Lecturer.

First, our Region X Resource Promotion Regional Vice Chair and San Diego Chapter President, Tiffany Bates is stopping by with some fellow chapter members to talk briefly about resource promotion. As ASHRAE is a non-profit organization, it relies on the giving spirits of its constituency to keep it vibrant and engaging. Tiffany will share more with us on Tuesday!

Immediately following, we're going to rock a phenomenal presentation that will earn you a CEU...

Distinguished Lecturer, Alan Niles presents:

### **Commercial Ground Loop Heat Pump Systems: Design and Economics** ***GBCI Approved | 1 CE Hour | 0090010521***

This discussion concentrates on the economic impact of project specific variables as well as decisions made (or sometimes, not made) by the design engineer and how defining these details can greatly reduce the first cost of a Ground Loop Heat Pump (GLHP) system. This presentation begins with a quick overview of the components of the GLHP System, and the basic design and installation of the ground loop. Commercial Ground Loop Design Software is reviewed and then utilized to illustrate the economic impact of project specific variables. This discussion concludes with hybrid system design and the opportunities that hybrid systems offer in additional first cost reductions with minimum impact to the operating cost of the GLHP system.

While this is a pretty exciting topic in itself, we also want to highlight that this presentation has been pre-approved for Continuing Education (CE) Credits. CE Credits for this approved DL presentation may be used for licensure, license renewal, or certification requirements. Attendees will be provided with an attendance certificate for self-reporting and record keeping. Got a CEM or a PE that needs CEUs for renewal? Come on down!

# PRICELESS PICS



**Our January meeting was another great one! Lucas Hyman with Goss Engineering was on hand to teach those of us in attendance about thermal energy storage (TES) systems. After the meeting, Lucas traveled to the ASHRAE show in New York to brave the cold and present on the same topic to a larger audience. Our understanding is that Lucas may have also earned a sales lead with an Inland Empire client based upon his work here! It's the power of ASHRAE at work!**

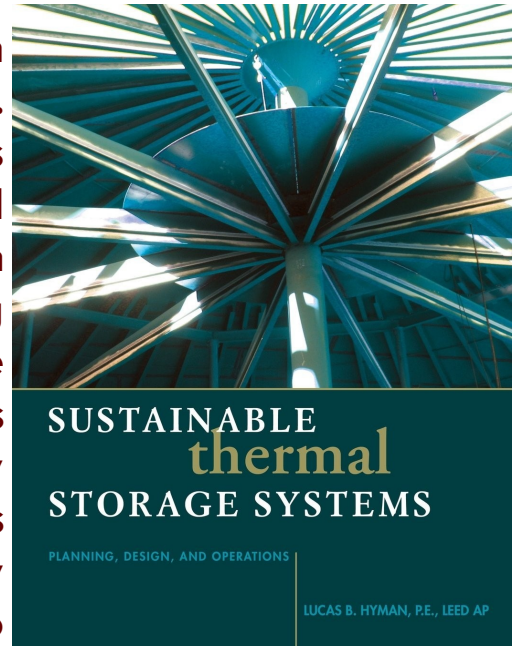
*Photos courtesy of Jim Toda.*



# JANUARY MEETING RECAP

## A Crowd Gathered to Learn About Thermal Energy Storage

Because of the ASHRAE National Conference that took place during the third week of January, Tri-County held its monthly meeting a week early. Even with the late schedule change, many attended a great meeting. Lucas Hyman, PE, LEED AP, author of Sustainable Thermal Storage Systems, was on hand to offer an advanced presentation on chilled water thermal energy storage (TES) system background and design. The presentation was advanced as Lucas would be delivering it once again in New York the following week. Those in attendance were not disappointed as the conversation not only focused on what TES systems could do for a wide array of customers, but we also had some time to talk about electricity rate design. One of the big financial benefits of TES, as we learned, is that it helps customers save on on-peak electricity demand charges. The importance of technology can not be under stressed, but don't forget about the economic impacts that engineering projects have on a customer's on-going operating costs! Thanks to every one who came out to enjoy this one with us!



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

# Tri-County SUPER HEAT

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CELEBRATING  
PLUS

**20** YEARS

1989-2014

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— journal of the tri-county chapter of the —

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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.

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