

# Tri-County SUPER HEAT ASHRAE

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

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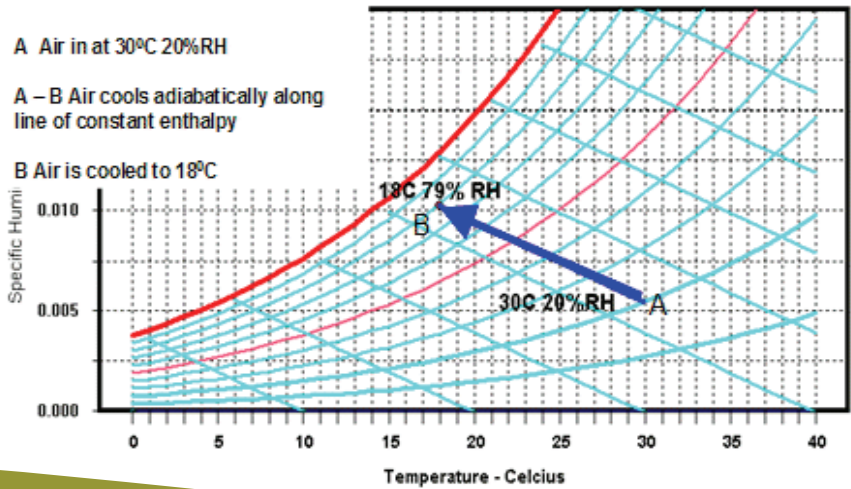
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### THE PRINCIPLE OF ADIABATIC COOLING

A Air in at 30°C 20%RH

A - B Air cools adiabatically along line of constant enthalpy

B Air is cooled to 18°C



## MEETING INFORMATION

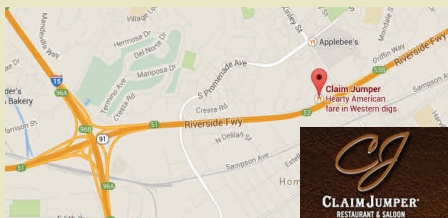
**Date:** October 27, 2015

**Location:** Claim Jumper Restaurant, Corona

**Social Hour:** 6:00-7:00

**Dinner and Program:** 7:00

**Cost:** \$40



We look forward to seeing you again at our next meeting. Claim Jumper Restaurant is located on 380 McKinley Street in Corona, near the 15 and 91 freeway interchange. Please e-mail Felix at [ashaetrickcounty@gmail.com](mailto:ashaetrickcounty@gmail.com) to reserve your spot for the upcoming meeting.

Claim Jumper Restaurant  
380 McKinley Street, Corona

## ASHRAE'S CORE VALUES

As we get set to kick off our 2015-2016 Tri-County ASHRAE season, let's take a moment to review ASHRAE's core values...

### Excellence

ASHRAE education, technical information and all other activities and products will always reflect the best practices that lead our industry. We strive for continuous improvement and innovation in all our practices and products.

### Commitment

ASHRAE and its members are passionate about serving the built environment, creating value, and recognizing the accomplishments of others.

### Integrity

ASHRAE is committed to the highest ethical standards. We work transparently, observing essential requirements for due process and peer reviews to assure our members and stakeholders that we do the right things the right way.

### Collaboration

ASHRAE seeks and embraces collaborative efforts with organizations, agencies, and individuals sharing our commitment to sustainable built environments.

### Volunteerism

Members lead ASHRAE at every level, serving ASHRAE and helping ASHRAE serve society.

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.

# 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 2015-2016  
Tri-County ASHRAE season,  
please contact

Felix Monterroso via e-mail  
at...

[ashraetricounty@gmail.com](mailto:ashraetricounty@gmail.com)

*Looking for a unique marketing opportunity?*

*We've got a deal for you!*

*For only \$50 (that's right, only \$50!) you and  
many more can see your business card appear on  
THIS PAGE of THIS PUBLICATION*

*for the 2015-2016 Tri-County ASHRAE season!*

*Now that you're interested, send a \*.jpg version of  
your business card to [ashraetricounty@gmail.com](mailto:ashraetricounty@gmail.com)  
while sending a check for \$50 made out to  
**Tri-County ASHRAE.***

*We will let you know where to send the check  
when you send your business card file to us at the  
above e-mail address.*

**FELIX MONTERROSO**

TCSH Editor

## ***“Adiabatic HVAC System Energy Savings”***

***Aaron Deutsch, owner of Drymaxx Air Solutions, has 20 years of Humidity control and HVAC energy efficiency experience. He has a chemical engineering degree from City College of New York and is one of the leading Southern California experts in psychrometrics. Today, he represents a variety of humidification, dehumidification, energy recovery systems as well as other HVAC equipment.***

***With the drought hitting California, and the need for long-term water solutions, ASHRAE members need to discuss the water impacts of HVAC design decisions.***

***At our October meeting, Aaron Deutsch will provide a fundamental overview of adiabatic cooling methods. He will discuss the water use impacts of both evaporative and direct-expansion cooling systems. This session will review the adiabatic process and how it can reduce energy costs for an owner.***



**Aaron Deutsch  
DRYMAXX AIR SOLUTIONS**

# LAST MEETING

## **"Chemical Free Water Treatment Systems"**

*At our September meeting, Rob French, Director of Business Development at Flow-Tech HVAC, presented on what chemical free water treatment systems are, what they can do, and how they can reduce water consumption.*

*Chemical free water treatments typically control scale, bacteria, and corrosion without the use of chemicals. Some of their benefits include:*

- Water (increased cycles of concentration)*
- Energy (scale prevention)*
- Labor (cleaning/maintenance)*
- Equipment life*
- Reduces water use*

*The presentation also covered the systems limits and the ancillary equipment that can provide such substantial benefits to cooling systems. Additionally, the most common types of systems were compared and analyzed. Tri-County ASHRAE members addressed all their questions and concerns developing an open and fun forum for discussion.*



Rob French  
Flow-Tech HVAC

# PRICELESS PICS



Last month, Tri-County welcomed guests speaker Robert French who presented on “Chemical Free Water Treatment Systems”. The presentation was informative and of great importance for the energy efficient oriented ASHRAE Tri-County members. It was another great night of learning and networking!

Photos courtesy of Felix Monterroso.



TTG Engineers is looking for a full-time energetic, organized, and driven Mechanical Engineer in Ontario, California .

*TTG Engineers is a leading full-service design engineering firm offering exceptional Structural, Mechanical, Electrical, Plumbing, Fire Protection and Civil design engineering services.*

**Responsibilities include:**

- *Analysis, design skills, presenting technical information, equipment, quality and focus.*
- *Proficient in latest Energy Pro software and other HVAC system calculation software.*
- *Proficient in Auto CAD & REVIT 2012.*
- *Prepare Plan Check/OSHPD related documentation.*
- *Experience with Client Communication required.*
- *Generate project specific spec's & details*
- *Ability to work with minimal supervision*
- *Ability to take lead in multi-discipline coordination.*
- *Candidate will have excellent oral and written communication skills.*
- *Site Investigation and Inspection experience preferred.*

**Requirements**

- *10+ years experience in HVAC systems design with institutional, commercial, educational, and healthcare projects.*
- *Bachelor's Degree in Mechanical Engineering*
- *California P.E. Professional Registration required*
- *Knowledge of LEED documentation*

*If you are interested forward your resume to [tkuehl@ttgcorp.com](mailto:tkuehl@ttgcorp.com), Attention: Tricia Kuehl. TTG Engineers, 901 Via Piemonte, Suite 400, Ontario, CA 91764*

# 2015-2016 PARTIAL ROSTER

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<b>Secretary</b>	<b>Ian Villazana</b> Willdan Energy Solutions — 714-278-8325

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<b>Student Activities</b>	<b>Jim Toda</b> Custom Cooling Company — 909.599.9222
<b>Research Promotion</b>	<b>Joe Sanders</b> DMG — 951-310-3235
<b>Membership Promotion Co-Chair</b>	<b>Erick Delgado</b> Air Conditioning Specialties Co. — 626.840.9001
<b>Newsletter Editor</b>	<b>Felix Monterroso</b> Willdan Energy Solutions — 626.629.9658
<b>Home Page Webmaster / Technology Transfer</b>	<b>Felix Monterroso</b> Willdan Energy Solutions — 626.629.9658



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

# Tri-County SUPER HEAT

6040A Irwindale Avenue,  
Irwindale, CA 91702

CELEBRATING

PLUS

**25** YEARS

1989-2015

TRI-COUNTY ASHRAE!

— 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.

<b>P A S T P R E S I D E N T S</b>	1988-1989	SUKHDEV MATHAUDHU
	1989-1990	SUKHDEV MATHAUDHU
	1990-1991	JEFF LEONARD
	1991-1992	DEL THOMAS
	1992-1993	TONY PIERCE
	1993-1994	GREG MORIN
	1994-1995	TONY HENKEL
	1995-1996	JOHN HAVILAND
	1996-1997	JOEL CARTER
	1997-1998	CHANDRA CHINDE
	1998-1999	JIM TODA
	1999-2000	RICHARD MCLEOD
	2000-2001	KERRY PARKER
	2001-2002	DEBRA CHAVIRA-SMITH
	2002-2003	LUCAS HYMAN
	2003-2004	JOE SANDERS
	2004-2005	BOB GASTEL
	2005-2006	ART ANDRES
	2006-2007	JIM PARKER
	2007-2008	KYLE LANDIS
2008-2009	RICK CREED	
2009-2010	ROBERT MORSE	
2010-2011	TIM HALD	
2011-2012	JAIMELopez	
2012-2013	ERICK DELGADO	
2013-2014	NICOLAS ROSNER	
2014-2015	RYAN RODRIGUEZ	