



Orange Spiel



Juicy News from ASHRAE's Orange Empire Chapter

MEETING INFORMATION

TUESDAY, JANUARY 17, 2017

JT SCHMID'S ANAHEIM

2610 E Katella Avenue
Anaheim, CA 92806
(714) 634-9200
(see map on page 5)

Registration starts at5:00 – 9:00 p.m.
Brewery Tours6:30 – 8:00 p.m.
Dinner and Presentation .8:00 – 9:00 p.m.

PLEASE E-MAIL

(PREFERRED),
PHONE, OR FAX YOUR
RESERVATIONS TO:
Carlton Haywood
c/o Signet Controls, Inc.
carlonh@signetcontrols.com
Phone (805) 990-8846
Fax (877) 888 4648

PRICE SCHEDULE

ASHRAE Membe \$45.00 (\$55 late)
Non-Member \$50.00 (\$60 late)
Student \$20.00 (\$40 late)

**IF CANCELLATION IS NOT
RECEIVED YOU WILL BE BILLED
FOR THE SESSION**

SEE PAGE 5 FOR FAX ORDER FORM

REFRIGERATION AND MICROBREWERY TOUR

with Mike Thompson

Orange Spiel Editor

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JANUARY MEETING NOTICE

6TH ANNUAL

REFRIGERATION & MICROBREWERY TOUR



TUESDAY, JANUARY 17, 2017



TOPIC: REFRIGERATION

Refrigerant is the most essential thermodynamic component of cooling systems. It is important to understand the intricacies of refrigerants and making the right choice for the environment. Consulting engineers, architects, system operators and building owners are responsible for understanding refrigerant technology and how it relates to system efficiency, refrigerant availability, lifecycle cost and maintenance.

We will cover the following topics:

- Understanding global regulations and how the Montreal Protocol and the Kyoto Protocol will impact the future of the HVAC industry
- Understanding the phase out/ phase down schedules of refrigerants, and the best way to plan for the future
- Understanding how the issue of global climate change will impact

the HVAC industry.

- The economics of refrigerant choice - balancing capital against lifetime energy cost.
- Learn about the next generation of refrigerants that are in development that minimize both the ozone impact, and the global warming impact of HVAC refrigerants.

Our speaker, Mike Thompson, is Global Leader of Refrigerant Strategy for the Ingersoll Rand businesses of Trane, and Thermo King. Mike has worked for Ingersoll Rand in the heating, ventilation and air conditioning (HVAC) industry for 25 years.

In this role, Mike is responsible for developing and communicating Ingersoll Rand's environmental message to the industry, and working with the sales distribution organization (See **REFRIGERATION** page 3)

ERIC'S BLOG

Happy New Year! We are starting off strong with our January Refrigeration Meeting at JT Schmid's in Anaheim on January 17th. We will have Mike Thompson of Trane come talk about global regulations and how the Montreal Protocol and Kyoto Protocol will impact the future of the HVAC Industry.

Something to keep in mind, on February 24th we will be having



our 2nd Annual Trap Shooting Event with ASHRAE Tri-County at Mike Raahaugee's Shooting Enterprise in Corona, CA. It was a great event last year and sure to be another fun time in 2017! We have already sent out an email blast and there will be more to follow.

Also don't forget that ASHRAE Membership is due by the end of the month, please make sure to mark your local chapter as "Orange Empire" as well as include the \$40 chapter dues in the form

you send to society. Notify Jeff Hanzel (jhanzel@esubk-svca.com), our chapter's MP Chair, if you have any issues or questions on Membership.

I'm looking forward to finishing the ASHRAE year strong and ensuring that we have great presentations and events lined up for our chapter. Thanks again for your continued support! Remember that we could always use more volunteers to help run our chapter, please don't hesitate to inquire how you can help out.

Eric Decker 

2017 Winter Conference and AHR Expo
Join us in Las Vegas this January 28-February 1 at Caesars Palace and the Las Vegas Convention Center. Register by October 28 for the best rates!
[Learn More HERE](#)

ASHRAE Learning Institute Continuing Education Courses at the 2017 Winter Conference in Las Vegas, Nevada

The ASHRAE Learning Institute will offer 20 courses during the ASHRAE Winter Conference and AHR Expo. Classes will be held at Caesar Palace (CP) – Headquarter Hotel or Las Vegas Convention Center (LVCC)

[Click here for additional information](#)

Jan 28, 2017 – **New!** Cogeneration from the Basics through Construction & Operation (code 60) (CP)

Jan 28, 2017 – Energy Modeling Best Practices and Applications (code 61) **ES Practices** (Co-sponsored by IBPSA-USA) (CP)

Jan 28, 2017 – Commissioning Process in New & Existing Buildings (code 62) (CP)

Jan 31, 2017 – **New!** Complying with Standard 90.1-2016 (code 75) **ES Practices** (LVCC)

Jan 31, 2017 – **New!** Complying with the Requirements of Standard 62.1-2016 (code 76) **IAQ Practices** (LVCC)

Jan 29, 2017 – Laboratory Design: The Basic and Beyond (code 63) (LVCC)

Jan 29, 2017 – **New!** ASHRAE-Classified Refrigerants to Meet Society's Changing Needs (code 64) (LVCC)

Jan 29, 2017 – Understanding & Designing Dedicated Outdoor Air Systems (DOAS) (code 65) (LVCC)

Jan 29, 2017 – **New!** Variable Refrigerant Flow System Design & Applications (code 66) (LVCC)

Jan 30, 2017 – Air-to-Air Energy Recovery Applications: Best Practices (code 67) **ES Practices** (LVCC)

Jan 30, 2017 – Designing Toward Net-Zero Energy Commercial Buildings (code 68) **ES Practices** (LVCC)

Jan 30, 2017 – Energy Management Best Practices (code 69) **ES Practices** (LVCC)

Jan 30, 2017 – High-Performance Building Design: Applications & Future Trends (code 70) **ES Practices** (LVCC)

Jan 30, 2017 – **New!** Complying with Standard 90.1-2016 Appendix G (code 71) **ES Practices** (LVCC)

Jan 30, 2017 – **NEW!** Design of Affordable and Efficient Ground Source Heat Pump Systems (code 72) (LVCC)

Jan 30, 2017 – Fundamentals and Application of Standard 55 (code 73) **IAQ Practices** (LVCC)

Jan 30, 2017 – Successfully Managing the Risk of Legionellosis Using Standard 188-2015 (code 74) (LVCC)

Jan 31, 2017 – IT Equipment Design Evolution & Data Center Operation Optimization (code 77) (LVCC)

Jan 31, 2017 – ASHRAE Guideline 0: The Commissioning Process (code 78) (LVCC)

Jan 31, 2017 – Designing High-Performance Healthcare HVAC Systems (code 79) (LVCC)

REFRIGERATION*(continued from page 1)*

globally to educate customers on the importance of environmental issues when selecting HVAC and refrigeration systems. Mike also works with Trane's leadership and technology groups to help navigate the complexity of global refrigerant regulations now, and in the future. He's held numerous positions with Trane including Field Sales and Global Marketing

manager for Trane's large tonnage chillers, and Director of Environmental Affairs for Trane.

Mike is a member of the technical development committee for the GBI (Green Building initiative) Green Globes green building rating system. The Green Globes rating system is a newly developed green building rating system that provides an alternative rating system that stresses ease of use, and rewards

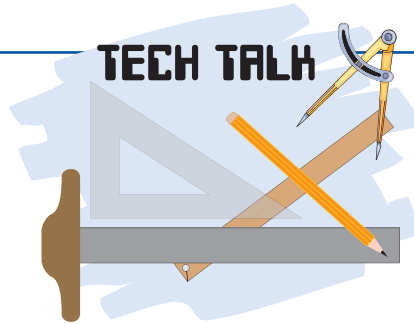
green building planning during all phases of building development.

Mike is an active member in a wide range of HVAC industry organizations including ASHRAE, and the International District Energy Association, and also represents Ingersoll Rand in the global Montreal Protocol meetings. He earned a bachelor's degree from Texas A&M University in Mechanical Engineering. 

Top Ten Benefits Energy Management Software Can Provide

By Craig F. Hofferber, CxA

TECH TALK



Digital control systems are powerful tools. By automating equipment control of a building's systems, property managers are able to program a facility to start up, heat or cool to a particular temperature, and shut down in one place but the power of a digital control system can only go so far.



Simplistic control of the HVAC systems shows a lack of insight into how the operations are run and where electric, water, and gas resources are consumed the most. A digital control system can maximize the effectiveness of the resources used if programmed to do so.

Energy management programs

provide detailed transparency into utility resource consumption, and provide tools to run a building more efficiently. There is some confusion in the market using this tool, however. According to a recent study, 70% of building managers reported they already had an energy management system (EMS), when in reality they had a digital control system serving focused HVAC control. Digital control systems can be expanded and programmed with EMS functions, however.

Here are ten ways local or remote energy management functions can fill in the gaps.

1. **Energy Consumption**

Analysis – Although digital control systems are great at controlling energy use,

they generally do not provide visibility into consumption and building operations. With an energy management system (EMS) approach including metering, property managers can see what resources they consume and use this information to enhance the way they program their control systems.

2. **Detailed Energy Use Data** – Using energy management techniques, a property manager can see a building's electric, water, gas and other resource consumption for building core services and sub-metered tenant spaces. A digital control system for HVAC focuses on the process, not consumption, so it cannot provide detailed utility use insight.
3. **Data-Driven Smart Decisions** – Using an energy management mentality, detailed information to make actionable

(See **TECH TALK** page 4)



HAPPY NEW YEAR!

TECH TALK

(continued from page 3)

- decisions backed by real-time data can be gathered. The system can provide granular data to identify areas of inefficiency and high consumption, allowing users to target operational improvement efforts. An energy management system can also provide automated tools and reports to make data actionable.
4. **Portfolio Data Centralized On the Cloud** – Energy management software can centralize water, electric, and gas data in the cloud. Property managers can access this data from anywhere to gain insights into their entire portfolio's energy consumption. Digital control systems specialized for one particular building cannot provide portfolio-level transparency or benchmarking data.
 5. **Quick Deployment and Payback** – An energy management system can be deployed quickly to begin gathering actionable data, providing users a quick return on investment (ROI). Energy management systems are a scalable technology that can be applied across a portfolio without adjusting the settings or customization of digital control algorithms.
 6. **No Annual Trainings Required** – Digital control systems can be particularly complex, requiring time to train and retrain staff every year. An EMS can be a user-friendly system that does not require frequent training sessions that eat valuable staff time. Energy management software can provide actionable data in a simple, easy-to-use manner on a common platform.
 7. **Team Collaboration On the Platform** – Teams can collaborate on an energy management system's platform via chat or work order integrations. Daily or weekly reports help team members work better together to manage energy consumption. Trending data can also be used to predict costs and budgets, allowing engineering teams to more accurately predict the proper settings for automated system control.
 8. **Real-Time Alerts, Historical Data, and Weather Normalization** – Real-time alerts can help an operations team to prepare for weather events. With collected historical data on the platform, a team can use past data stored on the cloud to best prepare for weather events. Additionally, texts and email alerts can be set up to warn leaders of high consumption so team members can check the systems for faults. With more historical data, the alerts will be more accurate in identifying unusual usage.
 9. **Validate Measurement and Verification** – Use energy management software data to make sure operational efficiency efforts are effective. An EMS can serve as a measurement and verification system for validating operational changes.
 10. **Integrate with Other Building Management Tools** – Energy management systems can integrate with other functions such as payment tools, tenant billing and benchmarking, or reporting systems like Energy Star and LEED.

Digital HVAC control and energy management systems can work well together to achieve an efficient building with great transparency into resource consumption and optimal control. One just needs imagination and curiosity to develop a digital control system into a functional energy management system tailored to the property.

– END – 



2017 ASHRAE ANNUAL CONFERENCE IN LONG BEACH - June 24-28, 2017

CALL FOR VOLUNTEERS! **SESSION MONITORS EARN A FREE REGISTRATION**

Sessions Monitors are needed for ASHRAE's Annual Conference June 24-28, 2017!
Earn a discounted conference registration for 4 hours of service.

The Orange Empire and Souther California Chapters are hosting this Society event next summer and we can use your help staffing the technical sessions. This is a great way to contribute and take advantage of the numerous educational and networking opportunities available.

SESSIONS MONITORS (approx. 80–100 people needed) will usually work in pairs to host specific meeting locations, assist with ushering guests, maintaining the schedule, and collecting the attendee feedback surveys. Here's the schedule of when we need volunteer help:

- **Sunday, June 25th** – Morning and Afternoon shifts (8:00am-4:45pm)
- **Monday, June 26th** – Morning shift only (8:00am-12:00pm)
- **Tuesday, June 27th** – Morning and Afternoon shifts (8:00am-4:45pm)
- **Wednesday, June 28th** – Morning shift only (8:00am-12:30pm)

If interested please email Rob Fried at rob_fried@emcorgroup.com or Jeff Conrad at jconrad@accoes.com. Specific time assignments will be coordinated and confirmed as we get closer to the event. Also looking for team captains to help recruit volunteers.

MORE VOLUNTEERS NEEDED!

The Long Beach Annual Conference Host Committee is looking for volunteers to serve as a Committee Chairperson on the following committees:

- **HOSPITALITY COMMITTEE**
- **INFORMATION/PUBLICITY COMMITTEE**

If anyone is interested in serving as a committee member to aid in planning, we can use help and all of our committees:

- **HOSPITALITY**
- **SESSIONS**
- **ENTERTAINMENT**
- **TOURS**
- **INFORMATION/PUBLICITY**

If you are interested, please contact Jeff Conrad (jconrad@accoes.com) or Ricson Chude (ricson.chude@sce.com)



KSR Associates is seeking an HVAC industry veteran to fill an important role within our organization as an Inside Sales/Application Engineer

The applicant should have ample experience working with mechanical engineers and design/build mechanical contractors on commercial construction projects.

The duties involved range from assisting our outside personnel with equipment selections and performance runs, to consulting directly with designers on the HVAC products that KSR represents, to managing take-offs, pricing and quoting, as well as doing submittals and providing after-sales support.

KSR represents several premier manufacturers of commercial HVAC equipment. Built on a long history of service and integrity, we offer a unique workstyle ideal for professional people who are creative, energetic self-starters capable of running their own show, with the option to work out of a home office and run a flexible work schedule.

Please call Tony Henkel at 1-909-463-0088, x111
or send a resume to mail@ksrassoc.com

www.ksrassoc.com

CHAPTER OFFICERS

PresidentEric Decker
 President-Elect..... Kenneth Golovko
 Vice President..... Derrick Wyka
 Treasurer..... Greg Glover
 SecretaryCarlton Haywood

BOARD OF GOVERNORS

Craig F. Hofferber
 Stephen J. Rawski, P.E.
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CRC DELEGATE

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**ASHRAE
 ORANGE EMPIRE CHAPTER**

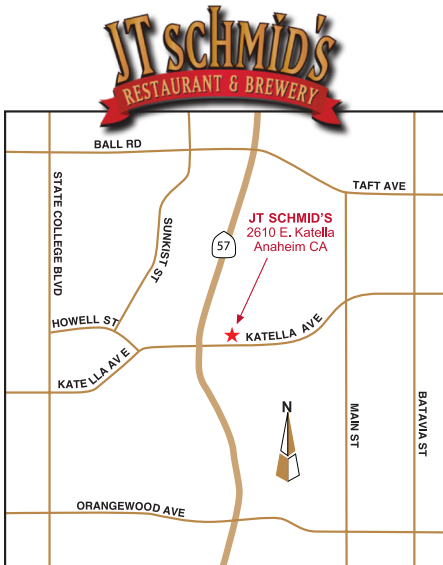
**2016-2017
 PARTIAL ROSTER**

**SPIEL DEADLINE!!
 The February deadline
 for articles or ads is
 FRIDAY,
 FEBRUARY 10, 2017!**

COMMITTEES AND CHAIRPERSONS

Attendance.....Carlton Haywood
 Electronic Communications....David Yancosky
 Golf Tournament..... Dan Davitt
 GGAC Michael Garabedian
 Historian..... Craig F. Hofferber
 Membership Promotion Jeff Hanzel
 Newsletter Editor.....Robert Hagstrom
 ProgramsDerrick Wyka
 RefrigerationDavid Yancosky
 Research Promotion John Sawyer
 Student Activities.....Margaret Peterson
 Table Top DisplaysGreg Glover
 Webmaster/Homepage Editor..David Yancosky
 YEA Chair..... Charlotte Wan Dean

**JANUARY 17, 2017
 Meeting Location Map**



**HAVE YOU
 PAID YOUR
 MEMBERSHIP DUES?**

We appreciate members paying their chapter dues at the same time they renew their Society membership.

If you haven't paid your dues yet, please be sure to stop by the reception desk at the next Chapter meeting and we can accept your dues directly.

Thank you!

BUFFET

**ATLANTIC SALMON
 AND CHICKEN**

Chef's Choice Salad,
 Breaded Teriyaki Salmon on
 a bed of White Rice, with
 Grilled Lemon Herb Chicken.
 Served with fresh seasonal
 vegetables and garlic
 mashed potatoes.

PLEASE RSVP FOR THE JANUARY 17 MEETING

by Thursday, January 12, 2017 at noon, Cancellations by Monday, January 16, 2017 at noon
(non-cancellations will be billed)

Carlton Haywood c/o Signet Controls, Inc. Phone (805) 990-8846 • Fax (877) 888 4648 • E-mail: carlonh@signetcontrols.com

ASHRAE MEMBERS: \$45 (\$55 late) | NON-MEMBERS: \$50 (\$60 late) | STUDENTS: 20 (\$40 late)

Name(s): _____



Menu Choice:

1. 2. Company: _____
 1. 2. Telephone: _____
 1. 2. E-mail: _____

To be removed from our e-mail list, please notify Chris Tindall at (949) 296-3136 or email ctindall@mcparlane.com or Steve Rawski at e-mail srawski@semprautilities.com.

PLEASE DO NOT CONTACT THE RESERVATION LINE TO REMOVE YOUR FAX NUMBER FROM OUR LIST

ORANGE EMPIRE CHAPTER

WINTER/SPRING 2016/17 SCHEDULE

MEETING LOCATION:

JT SCHMID'S ANAHEIM

2610 E Katella Avenue
Anaheim, CA 92806
(714) 634-9200
(see map on page 5)

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SEPTEMBER 27, 2016

Dinner: Arena Ventilation
Theme: Membership Appreciation
Place: Holiday Inn, Santa Ana

OCTOBER 25, 2016

*Tech: Optimizing Tomorrow's Steam System
Through Knowledgeable Design Today*
Dinner: How Not To Design a Steam System
Theme: Steam Night
Place: Holiday Inn, Santa Ana

NOVEMBER 15, 2016

*Event: Water Chemistry & IAQ – A Soup
to Nuts Look at Indoor Waterpark
Environments*
Theme: Joint Meeting with ASPE
Place: Great Wolf Lodge, Garden Grove

DECEMBER 13, 2016

Dinner: Adapt Today to Shape Tomorrow"
Theme: Joint Meeting with Tri-County Chapter
Place: Quiet Cannon, Montebello

JANUARY 17, 2017

Dinner: Refrigeration and Microbrewery Tour
Theme: Refrigeration and Membership Night
Place: JT Schmid's Anaheim

FEBRUARY 28, 2017

*Dinner: A New Air System Design Concept
Using Chilled Boxes*
Theme: Research and Past Presidents Night
Place: Holiday Inn, Santa Ana

MARCH 28, 2017

Dinner: TBD
*Theme: Joint Meeting with San Diego,
Hosted by Orange County Chapter*
Place: TBD

APRIL 25, 2017

Tech: TBD
Dinner: TBD
Theme: Student Night
Place: Holiday Inn, Santa Ana

MAY 23, 2017

*Theme: Officer and Board Installation and
Golf Tournament*
Place: TBD



Orange Spiel

ASHRAE Orange Empire
Chapter
www.oeashrae.org

THIS MONTH'S MEETING WAS ON

TUESDAY,
JANUARY 17, 2017

REFRIGERATION AND
MICROBREWERY TOUR
with Mike Thompson

Orange Empire ASHRAE
P.O. Box 15603
Santa Ana, CA 92735