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

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MEETING INFORMATION

Date: June 6, 2017

Location: Wick's Brewing Co. in

Riverside

Address: 11620 Sterling Ave

Suite C, Riverside CA

92503

Social Hour: 6:00-7:00 pm

Dinner: 7:00-8:00 pm

Cost: \$45



ASHRAE'S CORE VALUES

As we get set to finish our 2017 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 2017 Tri-County ASHRAE season, please contact

Rich Morrow via e-mail

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 2017 Tri-County ASHRAE season!

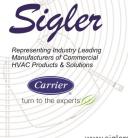
Now that you're interested, send a *.jpg version of your business card to ashraetricounty@gmail.com while sending a check for \$50 made out to Tri-County ASHRAE.

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.









Jim Parker Senior Sales Engineer Southern California

17451 Meridian Parkway Riverside, CA 92518

Office: (951) 255-2926 Email: jparker@siglers.com

www.siglercommercial.com

ASHRAE LEADERS



ASHRAE Leaders!

Our Tri-County ASHRAE leaders for the 2017 season are the following:

- •Chris Robles / DMG / President
- •lan Villazana / ACCO Engineered Systems / President Elect
- •Kakeru Fujikawa / Goss Engineering / Secretary
- •Felix Monterroso / Willdan Energy Solutions / Treasurer
- •John Garcia / RF MacDonald Company / Board Member
- •Jaime Lopez / The Gas Company / Board Member
- •Shaw Gentry, PE, CEM / Goss Engineering / Board Member



NEW MEETING



2017 Installation Dinner

Our Tri-County ASHRAE leaders for the new 2017-2018 season will be the following:

Officers

President: Ian Villazana / ACCO Engineered Systems

President Elect: Kakeru Fujikawa / Goss Engineering Inc.

Secretary: Felix Monterroso / Willdan Energy Solutions

Treasurer: Elyse Johnson / IMEG Corpoation

Board Members

Board Member: Chris Robles / DMG

Board Member: Goss Engineering Inc.

Ryan Rodriguez / Opterra Energy Services







"High Performance Buildings and Occupant Comfort"

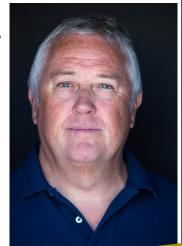
This lecture illustrated that the Predicted Mean Vote/Percentage Persons Dissatisfied (PMV/PPD) can be used to produce optimal designs for several different applications. One application was to evaluate an existing building to provide the owner with information on how to improve occupant comfort and improve building efficiency.

Previous work by Simmonds have shown that the effects on comfort resulted 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 showed the results of the design process for each of the buildings explaining the intricacies of each solution and showed 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, as well as Thermal Comfort. Publications of his work led to the de-

velopment of radiant systems in the USA and are included in the ASHRAE Handbooks. He has been involved in the design and development of Passive and Active Beams since 1983 and has designed many systems worldwide.







"High Performance Buildings and Occupant Comfort"

Peter is one of the co-authors of the ASHRAE/REHVA Passive and Active Beam Design Guide. He has been involved in the design and operation of tall, supertall, and megatall buildings around the world for more than 30 years and has authored the new ASHRAE Design Guide for Tall, Mega Tall and Super Tall Building Systems.

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 Standards committee as well as the College of Fellows. Peter teaches Graduate and Post Graduate Architectural students at the University of Southern California and is an ASHRAE Distinguished Lecturer.

PETER SIMMONDS, Ph.D. ASHRAE Fellow

Managing Director/Principal

Building and Systems Analytics LLC

Marina del Rey, California and Hong Kong



CALL FOR VOLUNTEERS



Call for Volunteers!

Sessions Monitors are needed for Annual Conference June 24-28, 2017! Earn a discounted conference registration for 4 hours of service (\$395 value)

The Orange Empire and SoCal 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 <u>rob fried@emcorgroup.com</u> or Jeff Conrad at <u>iconrad@accoes.com</u> Specific time assignments will be coordinated and confirmed as we get closer to the event. Also looking for team captains to help recruit volunteers.

ASHRAE 2017 Annual Conference

June 24-28, 2017 Long Beach, CA





The 2017 Annual Conference will be held in sunny Long Beach, Californial Get your board shorts ready and join us for a long weekend in Long Beach, June 24-28, 2017. Registration is open now at www.ashrae.org/longbeach.

The Long Beach Convention and Entertainment Center will be your one-stop shop for Registration, Bookstore, Speakers Lounge, and the Technical Program. Committee meetings will take place at the Hyatt Regency Long Beach, the Renaissance Long Beach, and the Long Beach Convention and Entertainment Center.

Technical Program

"Recently the building industry has seen a push in net zero energy (NZE) and California is on the forefront as Title 24 will require all new residential construction to be NZE by 2020 and all commercial buildings to be NZE by 2030," Ann Peratt, Conference Chair said. The conference includes tracks that demonstrate the benefits of net zero energy and ways to achieve that goal in the design and operation of buildings.

The fifth annual Research Summit brings together distinguished researchers to present the latest research results on building science and renewable energy and its impact as we move towards NZE buildings.

The conference Technical Program features new tracks that focus on resources to design, build, control, commission and operate these high efficiency facilities:

- Building Life Safety Systems NEW
- Commissioning: Optimizing New and Existing Buildings and their Operation Controls NEW
- Fundamentals and Applications
- HVAC&R Systems and Equipment
- Net Zero Energy Buildings: The International Race to 2030 NEW
- Refrigeration
- Residential Buildings: Standards Guidelines and Codes NEW

ASHRAE Learning Institute Courses

ASHRAE Learning Institute (ALI) provides high-quality training presented by industry recognized experts. Choose from full-day professional development seminars and half-day short courses to stay current on new HVAC&R technologies. ALI seminars and courses are approved for renewal of professional engineer and professional architect licenses, as well as for industry certification programs.

REGISTRATION

Early Bird fees from March 1 through May 1

- \$530, member/\$740, non-member
- \$505, first-time member attendee/\$715, first time non-member attendee

Advance fees from May 2 through June 12

- \$555, member/\$765, non-member
- \$530, first-time member attendee/\$740, first-time non-member
- \$145, Life Member

Full registration fees from June 13 through June 28

- \$690, member/\$900, non-member
- \$655, first-time member attendee/\$875, first-time non-member attendee
- \$155, Life Member
- \$270 member one-day fee/\$320 nonmember one-day fee

Registration fees for speakers, student branch advisors and students

- \$135, speaker
- \$25, student branch advisor
- \$25, student member/\$55, full-time student non-member

www.ashrae.org/LongBeach







Welcome Party, Aquarium of the Pacific

Saturday, June 24th from 7:00 – 9:00 p.m. Cost: \$55

Enjoy a cocktail and catch up with old friends with a background of colorful, underwater views as the Conference kicks off with the traditional Welcome Party. The event takes place at the Aquarium of the Pacific, a few walkable blocks from the Hyatt Regency and other partner hotels.

At the Aquarium of the Pacific take a journey of discovery through the world's largest ocean. Meet more than 11,000 animals in over 50 exhibits as you explore the frigid waters of the Northern Pacific and the colorful reefs of the Tropical Pacific. Guests will be greeted by a tropical friend. See and learn more about the energetic and curious sea otters in the Northern Pacific Gallery on the second floor with two, short shows!

President's Luncheon, Hyatt Regency

Monday, June 26 from 12p.m. – 2 p.m. Cost: \$45

2017-18 ASHRAE President Bjarne W. Olesen, Ph.D., Fellow ASHRAE, Life Member, presents his presidential theme, "Extend", which is based upon the Society goal to "Extend Our Community" found in our Strategic Plan. Together, we can extend our global community, our technological horizons, and our value to Members. Certificates of appreciation to retiring Board members are presented, and the 2017-18 officers and Board of Directors installed.

Life Members Luncheon

Tuesday, June 27 at 12:00 - 1:30 p.m. Cost: \$35

Enjoy lunch, share ideas about the future of technology and swap memories of the Society while dining with Life Members. This member grade is for members who have completed 30 years of continuous membership and are at least 65 years of age.

Tours

The Long Beach Host Committee has planned some incredible technical and general tours for the Conference. More information is available on the Conference webpage at www.ashrae.org/LongBeach.

ASHRAE Certification

Tuesday, June 27 at 2 p.m.

Already recognized by over 30 national, state and local government bodies – and with over 2,500 certifications earned – ASHRAE certifications increasingly have become the must-have credential for built-environment professionals. Elevate your reputation among peers, in the workplace and among clients with an ASHRAE certification.

To sit for one of these six ASHRAE certification exams on Tuesday, June 27 at 2:00 p.m., apply by June 6 at www.ashrae.org/longbeachexams.

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

Register Now and Learn More at www.ashrae.org/LongBeach.



KEYNOTE SPEAKER: Derreck Kayongo, CEO of the National Center for Civil and Human Rights, Founder of the Global Soap Project

Derreck Kayongo brings audiences to their feet with his compelling and courageous story of survival, discovery and humanitarianism. From a young Ugandan refugee to a successful entrepreneur, human rights activist, and renowned global health expert, Kayongo galvanizes audiences to seize the power of observation to identify issues, and effectively solve any challenge. With undeniable charm, palpable passion, and endearing wit, Kayongo brings his story and guiding principles to life in emotionally packed presentations that stay with you long after his closing remarks.

Kayongo is the founder of the Global Soap Project, which recycles partially used and discarded bars of soap from thousands of hotels and redistributes it to disadvantaged populations around the world. Since its founding in 2009, the Project has distributed soap to more than 90 countries where close to 2 million lives are claimed each year due to lack of proper hygiene.

Kayongo's experience as a human rights activist, combined with his lifelong commitment to his work and notable rhetorical skills earned him his current role as the CEO at the National Center for Civil and Human Rights. Called a "living embodiment of the Center's mission," Kayongo is elevating the visibility of the Center and expanding its vision beyond its geography.

Recognized with a range of honors and awards for his activism, including as one of CNN's Top 10 Heroes award in 2011, most recently Kayongo was selected by President Jimmy Carter to interview him as part of the National Archives' Amending America Initiative.







LONG BEACH ASHRAE SUSTAINABILITY PROJECT

VOLUNTEER DAY

Join ASHRAE to help retrofit the home of a local Long Beach family in need! Rebuilding Together will lead us in doing some home renovation work.



SATURDAY, JUNE 3



9AM - 12PM

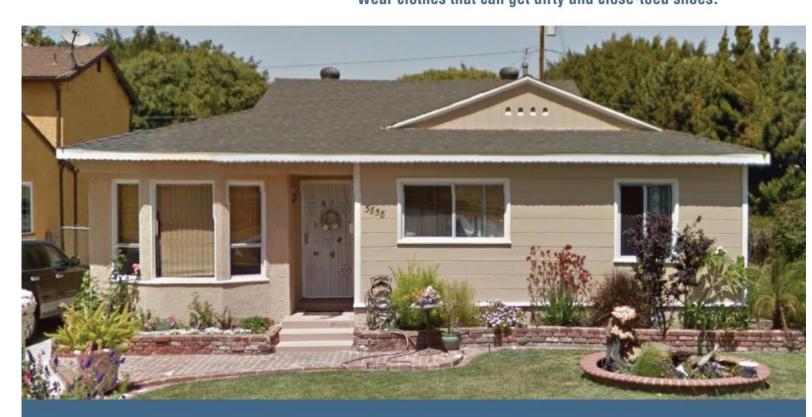


3858 KAREN AVE. LONG BEACH

Lunch and snacks will be provided.

No experience needed. All tools will be provided.

Wear clothes that can get dirty and close-toed shoes.



PLEASE RSVP TO

JOANNE CHOI (JCHOI@CYCLONE.ENERGY)

This volunteer event in partnership with Rebuilding Together Long Beach is part of the Long Beach ASHRAE Sustainability Project in conjunction with the 2017 Annual ASHRAE Meeting in Long Beach.

JOB OPPORTUNITIES





Willdan Energy Solutions (WES) is a national leader in energy efficiency. WES's expertise covers building system retrofits, commissioning and retro-commissioning, demonstrations of new technologies, energy efficiency education/outreach, sustainability strategy and local government partnerships.

WES's business is growing and we currently have an opening for a senior level energy efficiency Project Development Engineer in our Anaheim, CA office. The candidate must be able to work in a collaborative environment with our engineering staff, program managers and sales team to develop energy savings solutions and implement efficiency projects for our customers. The candidate must be able to identify efficiency and operational solutions for customers, develop proposals, sell projects, and oversee design and construction. This is a technical leadership role that involves directing entry level engineers, with oversight by senior level engineers.

Requirements:

- Knowledge of mechanical equipment such as motors, pumps, and variable speed drives
- Knowledge of HVAC equipment and systems, such as chillers, cooling towers, air handlers, chilled and hot water loops, and boilers
- Knowledge of energy efficient lighting technology and lighting controls, such as LED, occupancy sensors, daylighting, etc.
- BS in Mechanical Engineering or related field
- Professional Engineer's license preferred
- Min of 10 years' experience in energy efficiency, facility design/build, HVAC controls and/or performance contracting industry
- Computer proficiency, experience with Windows-based office applications required. Some travel required

If you are interested forward your resume to samoni@willdan.com Attention: Shafi Amoni. Willdan Energy Solutions, 2401 E Katella Ave #300, Anaheim, CA 92806



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, Attention: Tricia Kuehl.
TTG Engineers, 901 Via Piemonte, Suite 400,
Ontario, CA 91764

2017 PARTIAL ROSTER

Officers

President Chris Robles

DMG — 562-692-1277

President-Elect Ian Villazana

ACCO Engineered Systems — 714-278-8325

Treasurer Felix Monterroso

Willdan Energy Solutions — 626.629.9658

Secretary Kakeru Fujikawa
Goss Engineering, Inc. — 714.310.8126

Board of Governors

John Garcia

RF MacDonald Company — 714-412-1534

Jaime Lopez

Southern California Gas — 951-533-1121

Shaw Gentry

Goss Engineering Inc.—951.233.1827

Committee Chairs

Membership Promo- Ryan Rodriguez

tion Opterra Energy Services — 626-260-6623

Historian Jim Toda

Custom Cooling Company — 909.599.9222

Student Activities Jim Toda

Custom Cooling Company — 909.599.9222

Research Promotion Joe Sanders

Dynamic Engineered Systems, Inc — 951-278-

e Engineered Systems, Inc — 931-276-0282

Membership Promotion Co-Chair Air Conditioning Specialties Co. —

626.840.9001

Newsletter Editor Rich Morrow

Goss Engineering Inc. — 909.725.2737

Home Page Webmaster / Technology
Goss Engineering Inc. — 909.725.2737

-f--

Transfer

Tri-County SLIPER HEAT

PLUS YEARS

1989-2017

TRI-COUNTY ASHRAE!

1988-1989 SUKHDEV**MATHAUDHU** 2015-2016 SHAW**GENTRY**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 RICHARDMCLEOD

2000-2001 KERRYPARKER

2001-2002 DEBRACHAVIRA-SMITH

2002-2003 LUCAS**HYMAN**

2003-2004 JOESANDERS
2004-2005 BOBGASTEL

2004-2005 BOBGASTE

2005-2006 ARTANDRES 2006-2007 JIMPARKER

2007-2008 KYLE**LANDIS**

= 2008-2009 RICK**CREED**

2009-2010 ROBERT**MORSE**

2010-2011 TIM**HALD**

2011-2012 JAIMELOPEZ

2011-2012 JAIMELOILE

2012-2013 ERICK**DELGADO**

2013-2014 NICOLASROSNER 2014-2015 RYANRODRIGUEZ

— journal of the tri-county chapter of the —

American Society of Peating, 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.