

FOG DISPENSER



Thursday, October 24 Dinner Meeting

MAIN PROGRAM: POST OCCUPANCY TROUBLE SHOOTING:
Aligning Building's Performance with Engineering Projections

SPEAKERS: CHRIS LIGHT, PE, LEED AP Founder and CEO,
CELERITAS ENGINEERING



Chris Light is a mechanical engineer with more than 8 years of experience designing and fine-tuning high performance buildings. He founded Celeritas Engineering in 2018 to develop uncomplicated mechanical systems for low carbon buildings, with a focus on improving occupant health, well-being, and productivity. He has worked on more than 15 LEED Platinum and 9 Net Zero Energy projects and leverages this experience to define the value of high-functioning building systems to owners, tenants, and design teams.

MICHELE SAGEHORN, RED CAR ANALYTICS



Michele Sagehorn has worked for over 15 years on high performance buildings, including as a leading commissioning agent. From her background as a quality assurance engineer in the automotive industry, she brings to commissioning a standard of care that is unique to the built environment. Her experience spans numerous project types, including leadership on eight ZNE and twelve carbon-neutral buildings. In 2018, Michele and her colleagues launched Red Car Analytics, a company dedicated to engaging clients in building and operating high performance buildings through analytics.

Continued on next page

**THURSDAY, OCTOBER 24
5:30 PM TO 8:30 PM**

**SCOTT'S SEAFOOD
RESTAURANT
#2 BROADWAY
OAKLAND, CA 94607
(510) 444-3456**

<http://www.scottsjls.com/location.html>

AGENDA:

5:30 pm

Registration and Social Hour

6:30 pm

Dinner, Announcements
and Introductions

7:45 pm Break

8:00 pm Main Program

9:00 pm Adjourn

COST:

\$320.00 Chapter meeting
voucher

GG ASHRAE Members:

Before 5pm, October 22 \$50

After 5pm, October 22 \$55

Non-Members:

Before 5pm, October 22 \$60

After 5pm, October 22 \$65

Students/Voucher Holder

Free, but please register before
October 22 to help us better
plan for meal and venue seats.

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GOLDEN GATE ASHRAE
FOG DISPENSER
VOLUME L16- NUMBER 1
OCTOBER 2019

Presentation Summary

Michele and Chris will explore the importance of high functioning building systems and discuss approaches to achieving higher levels of building performance before and during occupancy. Strategies will be identified for quantifying the benefits of building performance in the context of occupant well being, carbon emissions, operations and maintenance, and financial returns. Through

the lens of case studies, different performance validation metrics will be discussed and correction during occupancy, including thoughts on how major issues could have been avoided during the design and construction phases.

EVENT CALENDAR 2019/2020

**FOR MORE INFORMATION
AND DETAILS GO TO
WWW.GGASHRAE.ORG**

NEXT MEETING:

- THURSDAY, OCTOBER 24.....DINNER
LOCATION: SCOTT'S SEAFORD, OAKLAND
SPEAKERS: Chris Light & Michele Sagehorn
TOPIC: Post Occupancy Trouble Shooting

- THURSDAY, NOVEMBER 14, 2019
TOPIC: Healthcare / Wellness in Buildings
LOCATION: SCOTT'S SEAFOOD, OAKLAND
SPEAKERS: Walt Vernon
- TUESDAY, DECEMBER 10, 2019
TOPIC: Joint Meeting with San Jose: OAC+E Meeting / State of the Market
LOCATION: TBD
SPEAKER: TBD
- THURSDAY, JANUARY 23, 2020
TOPIC: Refrigeration
LOCATION: PG&E Center
- SATURDAY THRU WEDNESDAY, FEBRUARY 1 - 5, 2020
- THURSDAY, FEBRUARY 13, 2020
TOPIC: Debrief on ASHRAE Winter Conference
LOCATION: SCOTT'S SEAFOOD, OAKLAND
SPEAKER: TBD
- THURSDAY, MARCH 19, 2020
TOPIC: Radiant + Ceiling Fans
LOCATION: 650 California St.
SPEAKERS: Paul Raferty + Fred Bauman
- THURSDAY, APRIL 16, 2020
TOPIC: Electrification of Buildings
LOCATION: PG&E Center
SPEAKER: Peter Rumsey
- THURSDAY, MAY 21, 2020, PRODUCT SHOW
LOCATION: PG&E Center
SPEAKER: TBD
- THURSDAY, JUNE 18, 2020
TOPIC: Resiliency: Batteries, PV and Beyond
LOCATION: 650 California St.
SPEAKERS/LOCATION: TBD

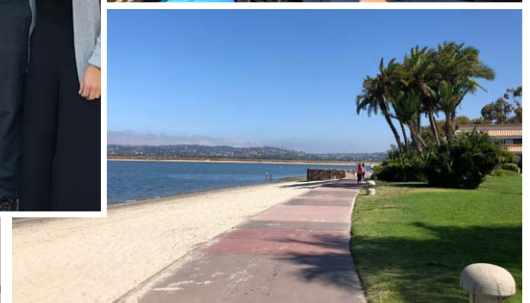
GOLDEN GATE CHAPTER JASON LESSER, OCTOBER 2019

Dear Golden Gate ASHRAE,

I'm excited and honored to serve as the President of the Golden Gate ASHRAE Chapter. Being a part of this organization has helped me grow in ways that I would have never guessed. This year we are lucky to have superstars on our board and committees.

Our focus this year is to not only serve our members but to serve our community and enhance our environment with the knowledge and professionalism of the Bay Area. We will try and excite everyone with beautiful new locations for meetings and talented speakers. Please stay tuned for updates on our scholarship opportunities, fund raising events, product shows, technical topics, and best of all the social comradery of our peers. .

At your service,
Jason Lesser, Golden Gate ASHRAE President 2019-2020



San Diego Regional Conference Recap August 2019! <https://www.regionx.org/crc>



Tom Gilbertson, Chapter Historian

October 2019

Fall is coming!...ASHRAE Chapter Meetings resume!...and Autumn strikes!..."September Song" (Kurt Weill with lyrics by Maxwell Anderson -1938)...This tells the story pretty well!...The "days are dwindling down...."...Now Golden Gate Chapter President Lesser has to get us very busy!

When we left you in June we admonished you..." Hey!...Golden Gate Chapter members!... over this Summer just take some time to realize how important you are to allow the World

to have the sustainable conditions that not only improve the quality of life...BUT... even make it possible!"

See you in Fall...after a Summer of reflection!"

Fall is here!

First!...Just how did your designs function over those very hot Summer days?...do you need to improve anything?...Our systems would get a real "test" over the Summer when at the Furnace Creek Inn in Death Valley would reach 128 F. With sustained temperatures of over 110 F...and the peaks of 128 F, we found that there was no "cheating" on the design!...Infiltration was an enormous issue to be reckoned with! Surprisingly the dry bulb temperature... "not so much" ...as we took steps to shade the glass...externally!...The systems worked just fine.

Over the years I have seen virtually no air-conditioning design that was short of "cooling" capacity...I have seen a few project designs that were short of "air flow"...that resulted in some unhappiness.... (Happiness is what ASHRAE-Technology is supposed to bring!)

The implication of wet bulb temperature... is quite another thing!

On a laboratory job in Scottsdale, AZ the system had two, 400-ton centrifugal water chillers', and the temperature reached 105 F... and it had rained during the days, the building was barely able to hold 77 F...right at an acceptable limit. Both 400-ton water chillers had "pegged" their amp meters. The following day the sky cleared. And the temperature still reached 105 F...but the building was 75 F in the space...and one chiller had shut is self "off". Clearly,

this laboratory with its large outside air ventilation-load was most influenced by the "wet bulb temperature. The difference in cooling-demand between the hot and dry day...and the hot and moist day...was right at 400-tons.

I would be interested to hear how your air-conditioning designs faired over the "Long-Hot Summer.

This year we hope to bring you some Golden Gate Chapter-History that will relate how some of our members really changed the world!

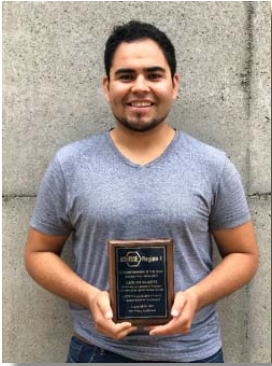


Student Activities Awards

Congratulations to our student activities committee. At this year's CRC in San Diego, they received awards for their dedicated work to promoting STEM careers to our local students and supporting the next generation of ASHRAE members.

Juliana Velez, Region X Best Student Activities Chair

Alicia Tan, Region X K12 STEM Champion



Congratulations to Carlos Duarte, UC Berkeley Student Branch President, for receiving the Region X Student Member of the Year Award. Carlos helped start the student branch in conjunction with the IBPSA student branch and has served as president and vice president for the past four years. He has also been involved with ASHRAE society, attending and presenting at conferences as well as attending many golden gate chapter meetings.

Carlos Duarte (UC Berkeley Student Branch President), Region X Student Member of the Year

ASHRAE GG at the Bay Area Science Festival

Juliana Velez

Do you enjoy working with kids to promote STEM and engineering? Or maybe you've just always wanted to walk onto the field at AT&T Park? If yes, then we have an opportunity for you! On Saturday 11/2/19 (11am-4:30pm), our chapter - with the San Jose chapter - will be running a booth at the annual "Discovery Day at AT&T Park". We will have hands-on activities for kids to have fun while learning the coolest concepts in engineering and STEM. If you are interested in volunteering or have any questions, please contact Juliana Velez, aggcstudents+k12@gmail.com.





Sanjil Karki, Membership Promotion Chair

Greetings everyone and welcome back to "ASHRAE Season"! As this is my first term as a Membership Promotion Chair, I am very excited to serve the chapter and enthusiastic about helping it grow. We have a lot of potential to have a great year and I look forward to getting to know you all throughout the process and expand the chapter membership.

Membership Promotion Committee help!

I am looking for volunteers to help on the Membership Promotion Committee. The role would include recruiting new members to join ASHRAE and helping with membership retention. The time commitment would be about an hour a week. Please contact me or the other committee or board members if you are interested in participating and contributing to our local and national society. We would be happy to answer any questions you have on the responsibilities. Link to my contact information is here <http://ggashrae.org/join.php>.

Welcome New Members!

We are looking forward to another successful year of retaining our current members and recruiting new ones. When renewing your memberships, please pay your local chapter dues AND Society dues. Reminder: Golden Gate (Local) and Society dues both need to be paid. Yes, those are two separate transactions. Throughout the year I will list the members who joined over the previous month, be sure to keep a look out and give them a warm welcome! Below are our newest members who joined over the summer:

MEMBERS

Mr Kegan Garrison
Margaret Pigman
Ms Mahssa Ghajar
Mr Horacio Cornejo
Nicholas Wayne Hinson
Jason Morgan
Mr Shaineel Chand Sarup
Mr Raymond Quan
Nathan B Taylor PE
Mr Anand Krishnan
Prakash
Mr Noel Hernandez
Sara Ambry
Mr Joshua Wayne Kidwell
Vincent J Powell

Mr Ashwin Pandit
Mr Matthew J Spratt
CARYN THORNBURG
Jorlyn Le Garrec
Miss Xinxin Hu
Tim K Minezaki
Mr Enrico M Romero
Ms Danielle V. Dragon

STUDENT MEMBERS

Ms Christina S Adams
Mr Roland Steven Ortega
Mr Roman MI Lukichev
Mr Amadeus Jazz Ornelas-Hibpshman
Daniel Whitworth
Colin Aiden Noronha
Miss Audrey N Tu
Trevor Brown
Mr Yingdong He
Mariah Smith



Brian Chacon, Membership Promotion Chair, Research Promotion Chair

What is the Resource Promotion Campaign?

The RP Campaign is an annual fundraising campaign benefiting the funding of numerous ASHRAE Programs. These programs include:

- **ASHRAE Research**
- **ASHRAE Scholarships for undergraduate students**
- **ASHRAE Learning Institute (ALI) development of new courses & materials**
- **Graduate Research Projects (Grants-in-Aid)**
- **Young Engineers in ASHRAE (YEA) Leadership Training**
- **Permanently endowed support to all of the above programs**

The RP Campaign is overseen by the RP Committee, a standing ASHRAE Committee. The committee is made up of 14 Regional Vice Chairs (RVC), 1 Consultant (past RVC), 3 Vice Chairs (past Consultant), and Chair (past Vice Chair). Staff support includes a 3-member team based at ASHRAE Headquarters. The RP Campaign raises over \$2.2 million a year from over 6,000 donors. These donors are made up of ASHRAE Members, industry associations, and industry organizations.

We have already had some generous donors. The following individuals have generously supported ASHRAE Research and Golden Gate Chapter for the 2018-19 Campaign.

Your contributions are much appreciated. Thank you for making a difference and shaping tomorrow's built environment today.

A NEW ASHRAE YEAR=NEW RESEARCH PROMOTION GOALS!!
THIS YEAR'S GOAL'S IS \$26,000

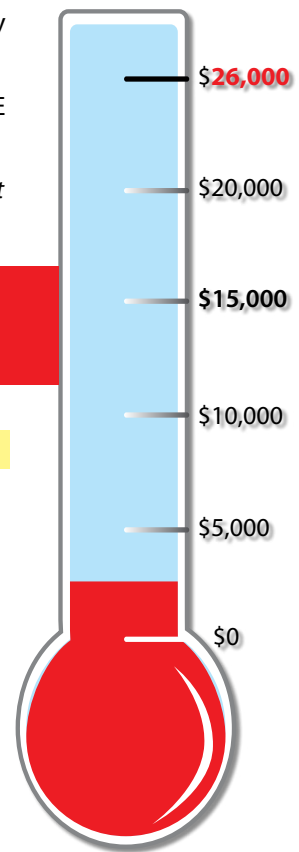
DONORS IN 2019-2020:

ORGANIZATIONS
\$250 TO \$999

ORGANIZATIONS
Up to \$249

INDIVIDUALS
\$250 to \$999

INDIVIDUALS
Up to \$249



Donations are tax deductible, by check, credit card or online at
www.ashrae.org/contribute

Mail Checks to: ASHRAE RP: 1791 Tullie Circle, NE: Atlanta, GA 30329

For more information, please visit Research and Promotions section on
www.ggashrae.org or contact RP Chair Brian Chacon at
 (415) 742-9350, or bchacon@ascenthvac.com

GOAL:
\$26,000
CONTRIBUTIONS:
\$00.00

HVAC Design Engineer

Western Allied Mechanical is a Bay Area leader in the construction industry. Operating for over 50 years as a HVAC contractor, we specialize in designing and installing innovative, energy efficient systems for bio-tech, high tech, retrofit, and LEED/Green projects. We are looking for intelligent, passionate and environmentally-minded HVAC design engineers to join our engineering team in Menlo Park, CA. PE Licensed preferred.

The Engineering team works with our sales partners to develop HVAC solutions to meet client comfort, process, or energy-related requirements. Engineers develop those solutions to produce compliance and construction documentation, controls system design, and commissioning functional tests.

Jobs@WesternAllied.com

UPCOMING EVENTS

Energy Center Game Night II

October 10, 2019, 6:30 pm to 8:00 pm, at PEC 851 Howard Street in SF.

REGISTER HERE: <http://usi.pge.com/event-details?EventID=21435>

October 10, 2019, 6:30 pm to 8:00 pm, via the Internet as a simulcast

REGISTER HERE: <http://usi.pge.com/event-details?EventID=21427>

Assemble a group and join us for a night of learning, socializing and fun. This event will have teams of participants working together to answer questions (our questions will be energy-related). Accolades, admiration (and possibly) prizes will be awarded to the team with the highest final score.

ASHRAE GOLF TOURNAMENT: October 14, Moraga Country Club

A promotional poster for the 2019 Annual ASHRAE Golf Tournament. The background is a green golf course with a white golf ball on a tee box and a golf club head visible on the right. The text is white and yellow. The ASHRAE Golden Gate Chapter logo is in the top right corner.

2019 ANNUAL
GOLF
TOURNAMENT
OCTOBER 14TH 2019

CHECK IN TIME: 9:00 AM TO 10:00 AM
(BREAKFAST BURRITO INCLUDED)

TEE-OFF: 10:30 AM
DINNER: 4:00 PM

MORAGA COUNTRY CLUB | 1600 ST ANDREWS DRIVE | MORAGA, CA 94556

ALL PROCEED BENEFITS ASHRAE RESEARCH AND SCHOLARSHIPS. FOR MORE INFORMATION, OR TO SIGN UP YOUR TEAM PLEASE CONTACT JOHN GARDNER (510)736-6829
JOHN.GARDNER@RFMACDONALD.COM OR SANJIL KARKI (415-613-6760) SANJIL.KARKI@REHAU.COM



Redwood Empire ASHRAE

21st Annual Golf Tournament

Bennett Valley Golf Club

Friday, October 18th, 2019



- Location:** Bennett Valley Golf Club
3330 Yulupa Avenue, Santa Rosa, CA 95405 / 707-528-3673
- Time:** Sign-in 10:30 AM
Lunch 10:30 AM - 11:30 AM
Tee-off 12:00 PM (Shotgun Start)
- Format:** Best Ball Four Person Scramble Format Tournament
- Entry Fee:** \$180 per person includes: green fees, cart, box lunch, post tournament buffet dinner and prizes (door prizes, raffle prizes, hole prizes)
For "Dinner Only" contact Adrian Giovenco at 415-418-0197 or adrian@inspire.ag
- Dress Code:** Collared shirt, no denim or jeans, soft spikes only

Golf Entry Form

Name: _____ Company: _____

Address: _____

City: _____ State: _____ Zip: _____

E-mail Address: _____ Phone: _____

Foursome Names:

Name: _____ (Captain) Name: _____

Name: _____ Name: _____

Event Contributions / Donations:

☐ Hole Sponsorship(s) – \$200 EACH (you can sponsor more than one)
Includes: High quality full-color print framed 11"x17" poster with company name and logo (send logo with sponsorship)

☐ Will Bring Raffle Prize Item(s) to Donate Item(s) _____

To sign up, please return this form by fax, email or mail on or before September 27, 2019 to:

Adrian Giovenco
2120 University Ave #411
Berkeley, CA 94704

Phone (415) 418-0197
Fax (888) 418-3991
Email adrian@inspire.ag

PG&E ENERGY CENTERS
FALL 2019 PREVIEW

Classes and resources to help you
gain new skills and fuel your future



pge.com/energycenterclasses

No-Cost Classes
Tool Lending Library
Expert Consultations

Upcoming PG&E Events & Classes

Energy Center Game Night II

Assemble a group and join us for a night of learning, socializing, and fun at the Pacific Energy Center. Working with teammates, event participants will be challenged with several rounds of energy-related questions. Our previous energy game night proved to be a powerful team-building experience for organizations working in energy. This event can also serve as a compelling learning experience for people new to energy efficiency, though industry veterans will be challenged by many of the questions we have planned. Meet and network with other energy professionals at this educational, fun event. Though available as an online simulcast, attendees are highly encouraged to attend this interactive event in-person.

Please join us for networking and hors d'oeuvres from 6:00 pm to 6:30 pm

Thursday, October 10, 2019, San Francisco - Pacific Energy Center and online

6:30 PM - 8:00 PM

In person registration: <https://usi.pge.com/event-details?EventID=21435>

Simulcast registration: <https://usi.pge.com/event-details?EventID=21427>

Central Heat Pump Water Heater Systems in Multifamily Buildings: Best Practices

In light of current decarbonization efforts in California, central heat pump water heater (HPWH) systems are becoming more common in multifamily buildings. This training will cover best practices for design and commissioning central HPWH systems as well as what to watch out for during the first several months of operation.

Tue October 15, 2019, San Francisco - Pacific Energy Center and online

8:30 am - 12:30 pm

In person registration: <https://usi.pge.com/event-details?EventID=21617>

Simulcast registration: <https://usi.pge.com/event-details?EventID=21621>

Best Practices for Lighting Retrofits

This training teaches how to approach lighting retrofit opportunities including selecting luminaires and lighting control systems to achieve an effective, quality upgrade. Participants learn to take into account existing conditions such as available daylight due to location and building orientation, reflectances and workplace design to realize deeper energy savings.

Tue October 15, 2019, San Francisco - Pacific Energy Center and online

8:30 am - 5:00 pm

In person registration: <https://usi.pge.com/event-details?EventID=21360>

Simulcast registration: <https://usi.pge.com/event-details?EventID=21358>

Continued on next page

Optimizing Residential HVAC System Performance

This class focuses on optimizing the actual performance of central forced-air heating and cooling systems in existing single-family residential buildings. This class is primarily geared toward mechanical and home performance contractors responsible for installing and maintaining these systems. The six performance factors that can be applied to HVAC design, installation and/or commissioning will be discussed. The instructor will review how each factor can be specified at design, implemented during installation, and tested/adjusted during commissioning.

Wed October 23, 2019, Stockton - Energy Training Center and online

9:00 AM - 4:30 PM

In-person registration: <https://usi.pge.com/event-details?EventID=20504>

Simulcast registration: <https://usi.pge.com/event-details?EventID=20793>

Heat Pumps: Residential Applications and Comparison with Solar Energy Systems

The instructor will cover all aspects of heat pumps including the fundamentals of technology, site analysis, system design, and cost factors. This class also compares heat pumps to renewable energy systems.

Thu October 24, 2019, San Francisco - Pacific Energy Center and online

9:00 am - 2:30 pm

In person registration: <https://usi.pge.com/event-details?EventID=21340>

Simulcast registration: <https://usi.pge.com/event-details?EventID=21385>

Case Studies of Advanced Lighting Controls: Learning from Exemplary Projects - 2019 update

Advanced Lighting Controls Systems (ALCS) play an important role in achieving Zero Net Energy (ZNE) buildings, mandated for all new residential construction in California by 2020, and an optimal design process remains critical to their successful adoption. This course will present several important exemplary projects that use ALCS (including one award winning net positive project), that provide valuable learning, experience, and best practices. The case studies focus primarily on designing, implementing and operating ALCS, and will address task tuning; CCT and LLD tuning; optimizing the integrated design process; designing for ZNE; assessing technologies and systems; calculating ROI; and presenting solutions to owners.

Mon October 28, 2019, San Francisco - Pacific Energy Center and online

9:00 AM - 4:00 PM

In person registration: <https://usi.pge.com/event-details?EventID=21501>

Simulcast registration: <https://usi.pge.com/event-details?EventID=21504>

HVAC Fundamentals: New Ideas for Novices (Two-day class)

This class introduces mechanical system concepts to novice building professionals using equipment samples, in-class activities, and other interactive teaching techniques. Topics will include thermal comfort, heat transfer, load calculations, psychrometrics, mechanical system components, low-energy strategies, control systems, code compliance and building commissioning.

Tue October 29, 2019 - Wed October 30, 2019, San Francisco - Pacific Energy Center

8:30 am - 4:30 pm each day

Registration: <https://usi.pge.com/event-details?EventID=20634>

IES Commercial/Industrial Update for Lighting Professionals on Title 24 2019

In this evening event, Charles Knuffke presents an informative and engaging lecture about the updates to the Non-Residential (Commercial/Industrial) lighting sections of the 2019 Title 24 Energy Code, which becomes effective Jan. 1, 2020. In addition to the mandatory lighting requirements, Charles will cover key areas of interest for most lighting professionals, including new power density allowances and the revised interior alteration requirements.

Registration for this event is through IES.

Thu November 7, 2019, San Francisco - Pacific Energy Center and online

6:30 PM - 8:00 PM

In person registration: <https://usi.pge.com/event-details?EventID=21544>

Simulcast registration: <https://usi.pge.com/event-details?EventID=21597>

SEPTEMBER MEETING RECAP PHOTOS



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Contact the Fog Dispenser editor Tyler Bradshaw, tbradshaw@bfengr.com