

FOG DISPENSER



Thursday, November 14 Dinner Meeting

MAIN PROGRAM: HEALTHCARE / WELLNESS IN BUILDINGS

SPEAKERS: WALT VERNON & TRAVIS ENGLISH



WALT VERNON

Walt is the CEO of Mazzetti, an employee-owned healthcare technology innovation firm, with offices across the US and in India. He is also the founder and CEO of Sextant, a not for profit committed to developing sustainable infrastructure for health facilities in low-resourced countries.

Walt represents the US to the International Federation of Healthcare Engineering, serves on the Exco for the IFHE, and has co-authored the forthcoming WHO book, Health in the Green Economy: a prescription for the Global Health Sector. He's developed healthcare standards for IEEE, ASHRAE, NFPA, and FGI. Walt led the efforts of the

American Hospital Association to create and develop its national sustainability programs. A founder of the Green Guide for Healthcare; he helped to develop the ASHRAE Advanced Energy Design Guides for Healthcare, he led the team that won the Kaiser Small Hospital Big Idea Competition; and he is the vice-chair for the ASHRAE 189.3 Healthcare Sustainability Standard.

Walt is a frequent research partner for Lawrence Berkeley National Labs and his current project is the US-India Energy Alliance, developing energy reduction strategies relevant to hospitals in both India and the US. Walt has done numerous projects to bring infrastructure to low-resourced countries. In the US, Walt spearheads the energy consulting business for Mazzetti, helping clients with a wide range of solutions, from purchasing, to data flow, to carbon accounting, to behavior change.

Continued on next page

**THURSDAY, NOVEMBER 14
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, November ? \$50

After 5pm, November ? \$55

Non-Members:

Before 5pm, November ? \$60

After 5pm, November ? \$65

Students/Voucher Holder

**Free, but please register before
November ?? to help us better
plan for meal and venue seats.**

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**GOLDEN GATE ASHRAE
FOG DISPENSER
VOLUME L16- NUMBER 2
NOVEMBER 2019**

Presentation Summary

Walt will discuss some research initiatives being undertaken by ASHRAE at the national level. Technical Committee 9.6 (Healthcare Facilities) has undertaken an extensive review of the evidentiary foundations for the ASHRAE 170 requirements. This work has been recently completed, and is available for purchase. The TC has just awarded a contract to measure the energy consumption of various modalities of medical equipment, with an eye towards helping provide guidance to mechanical engineers designing provisions to support them. Finally, the TC is developing a research project to determine the real (and perceived) risks associated with water re-use in healthcare facilities, in order to provide guidance to building owners and designers. This session will provide a quick overview of these key ASHRAE research initiatives.

TRAVIS ENGLISH

Travis English (PE, CEM, LEED-AP, MBA) is the National Director of Engineering and 'chief design engineer' for Kaiser Permanente's (KP) Facilities Strategy Planning & Design group, headquartered in Oakland, CA.

Travis is a PE, with BS in Mechanical Engineering from California State Polytechnic University at Pomona and an MBA in Management from California State University, Fullerton.

He has 20+ years of experience in design and construction.

With Kaiser Permanente, Travis emphasizes a value-based and outcomes-based approach to MEP systems, to meet the challenge of providing world class care environments that meet the ends of responsible, sustainable, and affordable care.



Presentation Summary

Patient Safety, Air Quality, and Variable air Volume in California Hospitals. A research team installed air quality sensors in a California patient tower, then converted the system from a constant volume system at 9 – 12 air changes to a variable volume system down to 2 air changes. The project represents the largest set of air quality data ever taken in a running hospital patient environment. This presentation will review the project and the air quality baseline and post-conversion data. The presentation will also review the project preparation process, overall plan, lessons learned, and opportunities for future action and learning that the results present.

EVENT CALENDAR 2019/2020

NEXT MEETING:

THURSDAY, NOVEMBER 14 DINNER

LOCATION: SCOTT'S SEAFORD, OAKLAND

SPEAKERS: Round Table: Angie Simon of Western Allied + Others

TOPIC: Healthcare / Wellness in Buildings

- THURSDAY, DECEMBER 5, 2019
TOPIC: Joint Meeting with San Jose:
OAC+E Meeting / State of the Market

LOCATION: SAN MATEO MARRIOTT
SPEAKER: TBD

- THURSDAY, JANUARY 23, 2020
TOPIC: Refrigeration
LOCATION: PG&E Center

- Feb 1-5, 2020 TOPIC: AHR Orlando
LOCATION: Orlando, FL

- 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

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

Dear Golden Gate ASHRAE,

Enjoy your November FOG Dispenser!

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





Tom Gilbertson, Chapter Historian
November 2019

Thanksgiving!... "Over the river and through the wood...to Grandfather's house we go.." (Lydia Maria Child 1844) ...The joys and comforts of ASHRAE-Technology were not very available when that poem was written!...ASHRAE and its precedent societies have much improved the quality of life since then!

Arguably the most distinguished Golden Gate Chapter member had a great deal to do with improving the quality of life...as well as saving the earth more energy than perhaps any single ASHRAE-technology related improvement.

Steven Selkowitz...assigned to the Golden Gate Chapter's membership rolls, he, of the Lawrence Berkeley Laboratory, has a history to be told!...Harvard-educated with a degree in Physics, and a Master of Environmental Design from the California Institute of the Arts, he was well founded!

"Windows and Building Envelop!" ...what a difference has been made since we first turned our ASHRAE-attention to improving energy efficiency...realize that buildings consume over 40% of all the energy consumed in the U. S....and Steve Selkowitz's activity and leadership singlehandedly effectively cut that consumption related to the envelop losses....in half!

When Steve arrived at the Lawrence Berkeley Lab in 1972...not a great deal was mathematically understood. or appreciated...about window construction.... Yes, we had double-glazed windows...but they were expensive...and the glazing itself could stand substantial improvement.... Steve Selkowitz fixed that!

Steve, as Group Leader, Windows and Building Envelope Materials, Department Head for Building Technologies at The Lawrence Berkley Laboratory took-over...and the understanding, and the improvements began to grow.

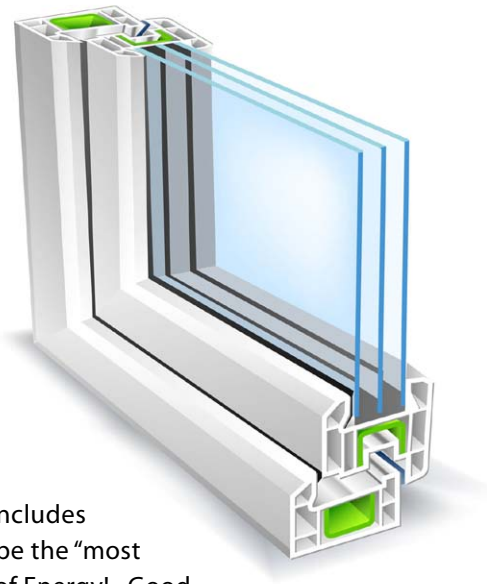
Low-emissivity window glazing!...Steve is the pioneer in this technology...and that includes the economic production of this now standard engineering feature. This considered to be the "most important, and successful development in the last 25 years!" ...Per the U. S. Department of Energy!...Good going Steve!

The accolades that the World has given Steve Selkowitz...are beyond measure...as an example...realize what others have said of Steve's accomplishments! Dubbed the "Steve Jobs "of the World in efficient building-science...Steve was the man behind the most successful stories in 25 years of energy efficiency R&D.! "His contributions cannot be underestimated, as they have helped shape the integration of energy-performance" ...says the U.S. Department of Energy!

Selkowitz is the author/co-author of over 170 publications, 3 books and holds 2 patents. In 2012 he was the recipient of the first-ever LBNL Lifetime Achievement Award for Societal Impact and in 2014 won McGraw Hill/ENR's prestigious Award of Excellence for "relentlessly working to reduce the carbon footprint.

When we get to Grandfather's house on that cold-Thanksgiving Day.... we can sit near the window...chiefly in "economical, money-saving comfort" ...thanks to ASHRAE Golden Gate Chapter Member...Steve Selkowitz!

Author's note: I had lunch with Steve and learned more than I could have imagined...One item that fascinated me was Steve's of the economical use of "triple-glazing" on supermarket and convenience stores refrigerated display cases. Steve pointed out that the energy load of these doors is "24/7" and always with a temperature differential of the minus -10 F to 30 F range referenced to the 72 F in the store... and that third-layer of glass is as thick as that cover on your cell-phone...and that the use of krypton gas in lieu of argon in the window doubles the heat flow resistance...and that krypton gas is now available economically because there is hardly any use for krypton because LED lights have virtually eliminated the manufacture of halogen lights...which used krypton....I thought that was interesting.





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.



Bay Area Science Festival!

HELP VOLUNTEER WITH ASHRAE
SATURDAY NOVEMBER 2nd

@

ORACLE PARK IN SAN FRANCISCO

VOLUNTEERS WILL VOLUNTEER IN SHIFTS BETWEEN 11:AM – 4:30PM
IN TIME SLOTS THAT WORK BEST FOR YOU! JOINT EVENT WITH THE
GOLDEN GATE & SAN JOSE ASHRAE CHAPTERS!

FREE ADMISSION FOR FAMILIES TO ENJOY!

2020 ASHRAE Winter Conference February 1-5, 2020 Orlando FL

The Golden Gate Chapter would like to invite Chapter Students to apply for a travel grant of up to \$1,250 to be applied to expenses for the 2020 ASHRAE Winter Conference in Orlando FL.

Two travel grants will be awarded

Every year in January or February, the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) hosts a Winter Conference and AHR Expo. The conference is attended by over 3,000 industry professionals. Attendees can discuss the latest topics in the building industry; participate in technical tours; attend ASHRAE Learning Institute courses; earn professional credits; and obtain ASHRAE certifications.

Applicants are required to:

- Be an ASHRAE Student member enrolled in a college or university within the geographical area covered by the Golden Gate Chapter
- Not be a previous recipient of a Golden Gate ASHRAE Chapter conference travel grant
- Attend at least 5 sessions and 1 student program event at the conference.
- Write an article for the Fog Dispenser on the conference experience. ½ page to 1 page in length.

Applications will be emailed to student members in a few days. Request an application from aggcstudents+WinterTG@gmail.com.

Applications are due no later than 5:00 pm on December 20, 2019.



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

Ms Danielle V. Dragon
Nathan B Taylor PE
Mr Paul Lafita
Mr Jim M. Nau
Jingjing Wang
yifan chen
Miss Nikaansha A Prasad
Eng
Jennifer Webb
Mr Alexander Popov
Yan Kliaver
Soniya Chopada
Miss Amber Ryman

STUDENT MEMBERS

Ms Christina S Adams
Mr Yingdong He
Mr Amadeus Jazz Ornelas-Hibpshman
Trevor Brown
Mr Roland Steven Ortega
Mariah Smith
Colin Aiden Noronha
Daniel Whitworth
Mr Yuming Xu



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.

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

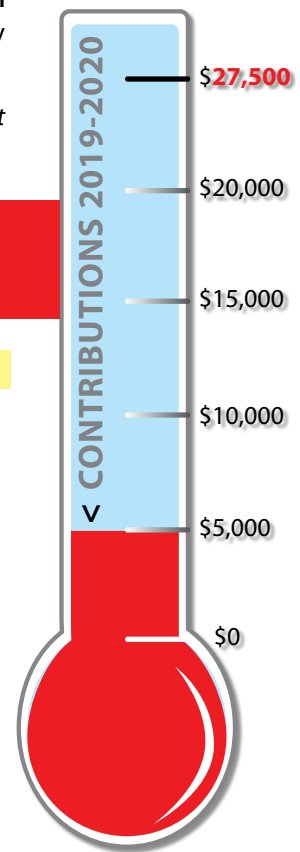
Your Board has stepped up to kick start the campaign by donating at least \$100 each!

DONORS IN 2019-2020:

ORGANIZATIONS
\$250 TO \$999

ORGANIZATIONS
Up to \$249
GG ASHRAE Golf Tournament

INDIVIDUALS
Up to \$249
Jason Lesser
Alyse Falconer
Brian Chacon
Jeremy Martinez
John Gardner
Juliana Valez



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:
\$27,500
CONTRIBUTIONS:
\$5,000.00

2019 Seminar Summary Report

Symposium on Optimizing Radiant Systems



Tyler Bradshaw,

2019 Golden Gate ASHRAE Seminar Committee & Past President

Last month we held our 13th consecutive free seminar themed around climate change and the popularity this seminar series has remained high for a broad audience beyond the ASHRAE member base. This year we had a full room from start to finish in addition to those choosing to participate via our webinar option. The fact that we had most of the audience staying until the end speaks to the popularity and interest in the speaker's topics and presentations. We certainly hope that you were able to attend but if not, the Center for the Built Environment has posted links to the presenters slides are posted **NEED THIS LINK** _____ and GGASHRAE will be posting links to the on the GGASHRAE.ORG site later this year.

We have been able to offer this seminar as a free event since 2007 and this would not be possible without hundreds of hours of volunteered time from committee members, presenters, PG&E's support by providing our event space and the donations from our generous sponsors. Each year the seminar has successfully raised \$1000's of proceeds that go straight to GGASHRAE scholarships and/or ASHRAE Research and none of the proceeds have contributed towards the chapter general funds. This is what we are most proud of, presenting an event that not only contributes to increasing knowledge and awareness of climate change related issues but simultaneously financially investing in our future through increased scholarships and research. There have been too many people behind the scenes who have helped make this possible, but I would like to take this time to thank a handful who have made substantial contributions in time or money.

Seminar Committee

David Lehrer (lehrer@berkeley.edu), Tyler Bradshaw(tbradshaw@bfengr.com), Clark Bisel (clarkbisel@greendesignadvisors.com), Bill Burke (WxB0@pge.com), Glenn Friedmann (gfriedman@taylor-engineering.com), Krista Murphy (kmurphy@aeieng.com)

SPEAKERS:



Fred Bauman, PE, ASHRAE Fellow

Project Scientist, Center for the
Built Environment, UC Berkeley

Anthony Bernheim

Anthony Bernheim, FAIA, LEED Fellow



Dove-Feng

Jingjuan Dove Feng, PhD, PE

Lyn-Gomes

Lyn L. Gomes, PE, CCP, LEED AP, CLCATT
Senior MEP coordinator at DPR Construction



SPEAKERS:



Paul-Raftery-square

Paul Raftery, PhD
Professional Researcher at the Center
for the Built Environment, UC Berkeley

Peter-Rumsey

Peter Rumsey, P.E., LEED AP BD+C, CEM, FASHRAE
Founder and CEO, Point Energy Innovations



Michele-Sagehorn

Michele Sagehorn, CEM, LEED AP
Principal and Commissioning Authority, Red Car Analytics

Industry Partners:

We could have not made this event free and marketed broadly without the generous contributions to our industry partners. We would like to thank PG&E for their generous contribution of the event site, catering, webinar technology and support staff all of which helped us avoid the largest costs typical for an event of this size and type. We would also like to thank the Center for the Built Environment for their website hosting, marketing outreach and most importantly the leadership and time contributed by David Lehrer.

Sponsors:

Without the very generous support from our sponsors, we would not have been able to accomplish our goals of offering this event free to the public while simultaneously raising funding for valuable ASHRAE research.

Our Event Sponsors

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URBAN
FABRIC

HVAC/Plumbing/Mechanical Engineer (Stockton, CA)

Alexander Scheflo & Associates is seeking a HVAC/Plumbing/Mechanical Designer or Engineer to join our firm. The firm was established in 1969 and provides design engineering services; Plumbing, HVAC, and Energy Compliance for commercial, educational, and multi-family projects.

This is a full time position. Salary to be based on level of experience. We offer vacation time, sick leave, major holidays off, medical insurance, and 401(k) match. To apply, please submit your resume, and a detailed cover letter that conveys your relevant experience to mitch@aschefloeng.com or [Alexander Scheflo & Assoc., Inc., PO Box 4183, Stockton, CA 95204](#).

Title: Taylor Engineering – Mechanical Engineer Job Opening

Design HVAC systems and controls for commercial buildings using CAD tools. Perform load calculations and energy analysis. Analyze building mechanical system operation data, diagnose operation problems, and provide technical leadership. Provide whole building energy model and simulation. Make recommendations for improving system performance.

Job Requirements:

Bachelor's degree or equivalent in Mechanical Engineering or closely related field and two years experience performing HVAC systems analysis or whole building energy simulation and analysis, including HVAC.

Please send resume to Glenn Friedman, Taylor Engineering, 1080 Marina Village Parkway, Suite 501, Alameda, CA 94501. E-mail gfriedman@taylor-engineering.com

PAST EVENT RECAP

ASHRAE GOLF TOURNAMENT recap: Moraga Country Club

Golden Gate ASHRAE hosted the 2019 golf tournament at Moraga Country Club on October 14th, 2019. It was a beautiful sunny clear day, a perfect day for a golf tournament. We had 92 golfers in attendance and rose over \$4,000 for Research Promotion. Congratulations to the winners from the Norman S Wright team Emil Chan, JP Chaparro, and Ryan Richey. Also congrats to Borannie Anicete who took home trophy's for closest to the pin and longest drive!

A big thank you to our event sponsors, we could not have done it without you!

- **RF MacDonald**
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- **Ascent**
- **Rehau**
- **Air Systems Inc.**
- **Sunbelt Controls**
- **Siemens**
- **Victaulic**
- **Siglers**
- **Paragon Controls**

And thanks to our event photographer, Juliana Velez!

Check out this awesome video that she put together from the event:



<https://youtu.be/6Jj4k1an1ds>

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

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>

GOVERNMENT OUTREACH DAY

Mark your calendar!
Join other fellow ASHRAE members and speak to our State
Legislators about the HVAC&R industry.
More detailed to come but save the date!!

MARCH 2, 2020
REGION X GOVERNMENT AFFAIRS COMMITTEE (GAC)



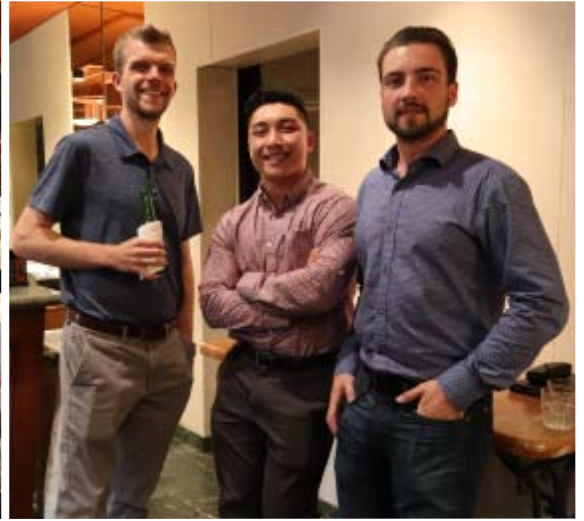
CALIFORNIA STATE CAPITOL

**Contact Mitch Pinsker (GG GAC chair) for
more information: mpinsker@aeieng.com**

OCTOBER BIKE RIDE RECAP PHOTOS



OCTOBER DINNER MEETING RECAP RECAP PHOTOS



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American Mechanical Inc.
1275 Boulevard Way
Walnut Creek, CA 94595
(408) 569-0422
Jason.lesser@ami-hvac.com

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CHC
2293 Tripaldi Way
Hayward, CA. 94545
(510) 695-1415
jmartinez@chchydro.com

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South San Francisco, CA 94080
(650) 330-7566
dionello.michelle@gene.com

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Point Energy Innovations
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bchacon@ascenthvac.com

Juliana Velez
Hatch Data
(510) 703-3848
juliana.velez@hatchdata.com

Committee Chairs

CHAPTER TECHNOLOGY TRANSFER

Zeid Arnaout
zarnaout@integralgroup.com

YEA (Young Engineers in ASHRAE)

Jake Barker
C: (402) 643-0661
jbarker@airtreatment.com

REDWOOD EMPIRE

William Martin
(510) 741-9100
william@conservationmechsys.com

MEMBERSHIP PROMOTION

Sanjil Karki
(415) 613-6760
Sanjil Karki

Alan McDermott
(415) 535-4241
amcdermott@siglers.com

Adrian Giovenco
(415) 418-0197
agiovenco@trane.com

RESOURCE PROMOTION

Brian Chacon
(714) 401-3828
bchacon@ascenthvac.com

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(510) 263-1542
gfriedman@taylor-engineering.com

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Scott Wayland
(510) 508-2244
sewayland@comcast.net

STUDENT ACTIVITIES CHAIR

Alicia Tan
aggcstudents@gmail.com

PUBLICITY

William Martin
(510) 741-9100
william@conservationmechsys.com

ELECTRONIC COMMUNICATIONS

Moana Reynau
(510) 579-1750
Moana.Reynau@pae-engineers.com

HISTORIAN

Tom Gilbertson
(925) 376-4516
tomagilbertson@msn.com

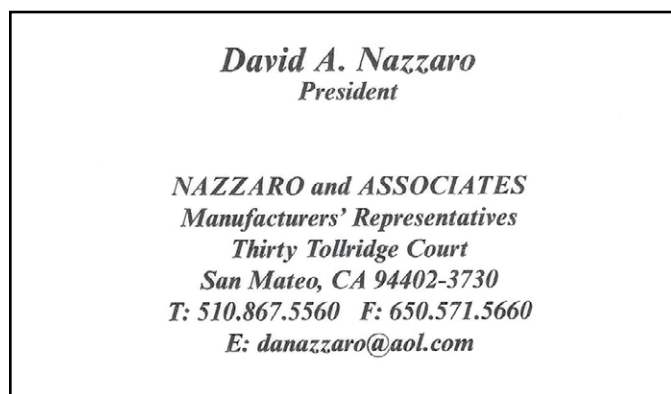
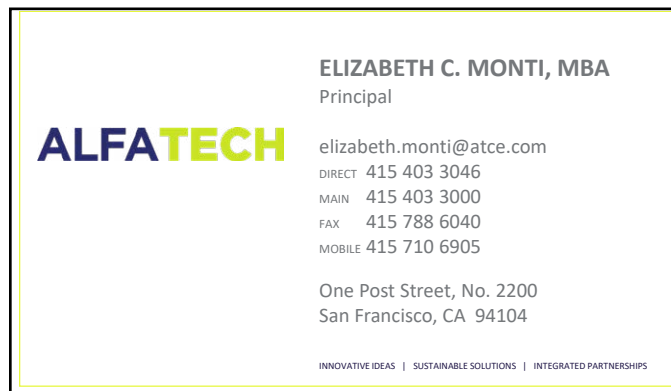
TENNIS CHAIR

James Gronek
(312) 456-2237
jgronek@esdglobal.com

GOVERNMENT AFFAIRS

Mitch Pinsker
415.764.3751
mpinsker@aeieng.com

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