



San Jose Chapter



Dear San Jose ASHRAE Members and Friends,

Happy Holidays and happy New Year everyone! 2019 was an incredible year for San Jose ASHRAE and I have an inkling that 2020 will be even better! Big thank you to our esteemed panel who sparked invigorating conversation and debate at our annual joint December meeting with the Golden Gate Chapter. It was great to see how engaged our chapters were as we push to improve our built environment and the way the sectors of our industries work together.

To ring in the Holidays our YEAers took over Rock Bottom in Campbell for our Annual Holiday party and what a party it was as we sold out this event yet again! Please keep an eye out for upcoming YEA Brewery Tour and YEA Bowling events! Both of these events sell out quickly so don't miss your chance to grab a beer and bowl a strike with your fellow YEAers!

Every new year is special, but this year is particularly paramount as the 2019 Title 24 changes have taken effect. Sifting through the endless changes can be challenging and tedious, lucky for us, we have Sargon! Wednesday, January 8th, Sargon Ishaya, our twice Past President and Principal at Pragmatic PE, will be keeping us abreast with the latest code changes and potential areas of concern for our industry.

I'm so excited for this year and I can't wait for you all to be a part of it!

Thanks,
Richard Lam, Chapter President

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Thank You



JANUARY TECHNICAL MEETING AND RESEARCH PROMOTION NIGHT

2019 TITLE 24 UPDATE

SPEAKER: SARGON ISHAYA, PE

We welcome you to join us for our technical meeting at the Hotel Biltmore in Santa Clara for an evening of sharing knowledge, fun, and networking.

Date: January 8th, 2020

Location: Hotel Biltmore
2151 Laurelwood Rd, Santa Clara, CA 95054

Time:

Check-in and Social:	5:30PM
Dinner	6:30PM - 8:15PM
YEA Mixer	8:30PM – Last Call

Cost:

Early bird Registration fee:	\$ 50/- (by Midnight Jan 1 st)
Late Reg/Walk-ins/Non-Members:	\$ 60

RSVP: <https://sjashrae.org>

Speaker:

SARGON ISHAYA, PE, LEED AP

**CONSULTING ENGINEER, PRAGMATIC PROFESSIONAL ENGINEERS
ADJUNCT ENGINEERING PROFESSOR, SAN JOSE STATE UNIVERSITY**



Sargon received his Master's Degree from Stanford University and his Bachelor's Degree from California Polytechnic State University in San Luis Obispo. He is a registered professional engineer in the state of Hawai'i and California, a LEED Accredited Professional, a NEBB supervisor for TAB and Building Commissioning, and a two-time past president of San Jose ASHRAE. He currently serves as the Post-High Student Activities Chair.

Sargon spent many years in the design build industry before leaving to start his own mechanical, electrical, process piping and plumbing engineering consulting company called Pragmatic Professional Engineers. He has experience in the design of data centers, bio pharmaceutical facilities, solar-thermal systems, semi-conductor facilities, lab and office buildings, and residential and hotel design.

Presentation Summary

In May 2018, the California Energy Commission adopted the 2019 Title 24, Part 6 Energy Code updates that will take effect January 1, 2020. Sargon will present on the key changes to the updated code and how that will affect building design in the future.



FEBRUARY TECHNICAL MEETING

OPTIMIZING PUMPS AND PUMPING SYSTEM OPERATION

SPEAKER: SHEREZAD SHAFIQ

We welcome you to join us for our technical meeting at the Hotel Biltmore in Santa Clara for an evening of sharing knowledge, fun, and networking.

Date: February 12th, 2020

Location: Hotel Biltmore

2151 Laurelwood Rd, Santa Clara, CA 95054

Time:

Check-in and Social:

5:30PM

Dinner

6:30PM - 8:15PM

YEA Mixer

8:30PM – Last Call

Cost:

Early bird Registration fee:

\$ 50/- (by Midnight Feb 5th)

Late Reg/Walk-ins/Non-Members:

\$ 60

RSVP: <https://sjashrae.org>

Speaker:

SHEREZAD SHAFIQ

**DIRECTOR OF SERVICE AND AFTERMARKET SALES,
GRUNDFOS**



Sherezad Shafiq is the Director of Service & Aftermarket Sales for Grundfos – a Danish Pump manufacturer. Sherezad is a mechanical engineer and is presently pursuing his MBA in Sustainable Solutions. He has been with Grundfos for 15 years and during his tenure has worked in various departments – engineering design, operation, sales and service. In his present role Sherezad is responsible for Grundfos Service and Solutions team in Western USA. The present team he leads specializes in repair and replacement of traditional pumps and systems. He also leads a team of energy optimization experts whose role is to evaluate existing pumping systems and propose optimized operation of pumps based on technological advancement as well as enhanced sequence of operation. Sherezad works closely with customers to digitally enable pumping equipment to be able to predict a failure before it happens and remotely provide a potential solution.

Presentation Summary

Pumps account for almost 10% of the world's energy consumption. Acquiring a pump system is not your biggest investment – keeping it running is. With very little effort on optimizing existing pumps, we can make a big difference in the overall energy consumption from pumps. This presentation aims to discuss the following major topics –

1. Pure efficiency gains due to technological advances in pumping equipment
2. Pump sequencing and operational efficiency
3. Pump System Optimization
4. Predictive Maintenance practices with digital solutions available in the market

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 Vanessa O'Connor
(SJ GAC Chair) for more information.
Email: voconnor@westernallied.com



Vanessa Lassenon

Membership Promotion Co Chairs



Gabriel Perez

San Jose would like to welcome the following members:

Associate

Hamid Lavasani PE
Alejandro Arellano
Alexander Schrautemyer
Michael Cahill
Tony Soltes
Gerald Balanon
Matthew Keeble
Helen E Juan
Jaycee Martinez

Member

John-Paul Farsight
Moh Heidari

Student

Chenli Wang
Patrick McCurdy
Boeun Choi

"We look forward to seeing you at the next meeting!"

Please consider membership advancement! Why should a member advance from Associate to Full Member status?

- Local Chapter Recognition
- Service Society, Chapter, or Regional Committees
- Qualify for ASHRAE Fellow & other Society awards

To become a Full Member, complete the three steps below.

Have all (3) qualifications below?
Apply for advancement!

Engineering Degree (4+ years)
PE License
Work Experience (3+ years)

1 - Check if you qualify.

See the next page on
Attaining Full
Membership

2 - Update your online ASHRAE Profile.

Go to www.ASHRAE.org.
Select "My ASHRAE"
Select "Review/Update
Profile"

3 - Notify / email ASHRAE.

Email membership@ashrae.org
Let them know you have an
updated bio and wish to be
considered for a grade
advancement.

ATTAINING FULL MEMBERSHIP

Twelve years may not be as long as you think!

How many years have you been working in this industry? _____ (A)

How many years did you attend a technical school, college, or university? _____ (B)

Is (B) at least 2 years? Then enter that number here: _____ (C)

Did you graduate from an accredited college or university? If yes, multiply (C) by 0.5 and enter here: _____ (D)

Have you attained professional registration?
If yes, enter 3 here: _____ (E)

Now....add (A) + (C) + (D) + (E) = _____ (F)

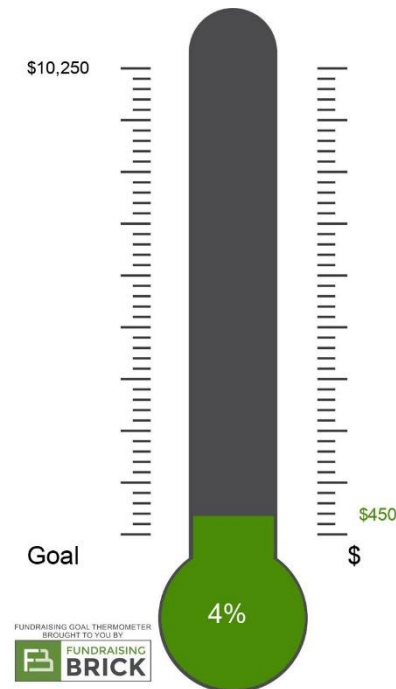
Is (F) at least 12? Then you qualify for full membership!

Update your member bio online today www.ashrae.org



Rob Potter

Research
Promotion
Chair



What is Research Promotion?

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.



David Hodson

Chapter Technology
Transfer Committee
(CTTC) Chair

What is CTTC?

The Chapter Technology Transfer Committee (CTTC) provides efficient and effective transfer of current and relevant information throughout the HVAC&R industry to and from the Chapters. CTTC develops and maintains high quality and readily available tools to enable Chapters to offer information and attractive industry-related information and programs to all segments within the HVAC&R industry

Upcoming Events



Advance your career and open new doors by earning an ASHRAE Certification

<https://www.ashrae.org/professional-development/ashrae-certification>



Vanessa Lasseson

Government Affairs
Committee (GAC)
Chair

What is GAC?

The Government Affairs Committee (GAC) is responsible for organizing ASHRAE members to educate local, state, provincial, and national government bodies and officials in areas of interest to ASHRAE members, and to promote effective cooperation between ASHRAE members and government.

ASHRAE Government Affairs

Stay informed on the latest news. Subscribe to ASHRAE's Government Affairs Update!

This bi-weekly publication features information on government affairs-related activities of interest to ASHRAE members and others interested in the built environment.

Subscribe through the link below:

<https://www.ashrae.org/government-affairs/government-affairs-updates>

Announcements



ASHRAE Announcement:

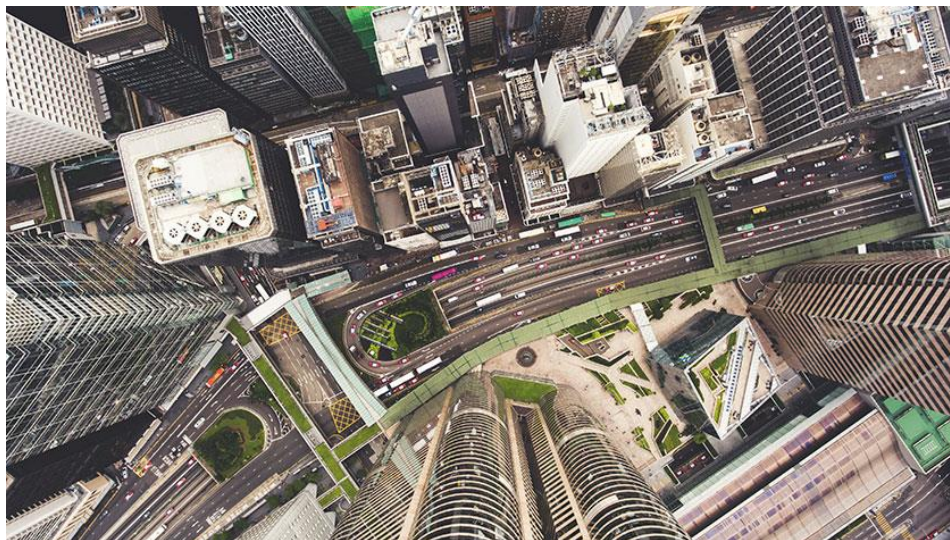
- Government Outreach Day – March 2, 2020



GAC Announcements:

- Grid-Interactive Buildings Report Released by NASEO
- California Moves Forward with Lightbulb Standard
- House Democrats Introduced Bill to Reach 100% Clean Economy by 2050

GAC ANNOUNCEMENTS



Grid-Interactive Buildings Report Released by NASEO

A new report that describes how grid-interactive efficient buildings can benefit the grid and building owners and occupants was released on October 28. The report, *Grid-interactive Efficient Buildings: State Briefing Paper*, discusses how new technologies can help manage and balance energy loads, which can lower electric grid costs, reduce emissions, and improve energy resilience. More information about this report can be found [here](#).

[Grid-interactive Efficient Buildings: State Briefing Paper](#)

California Moves Forward with Lightbulb Standard

The California Energy Commission has essentially voted to bar sales of incandescent and halogen bulbs by adopting stronger energy efficiency lightbulb standards. The vote comes after the U.S. Department of Energy (DOE) withdrew the 2017 energy efficiency standards for certain types of light bulbs. The state banned the sale of pear-shaped bulbs in 2018, but the rule will now extend to other shapes of incandescent bulbs — a wide collection used in chandeliers, recessed lighting and other lamps that DOE recently rolled back.

House Democrats Introduced Bill to Reach 100% Clean Economy by 2050

On November 11, House Democrats introduced H.R.5221 — 100% Clean Economy Act, a bill that sets a national goal of reaching a 100% clean economy by 2050. The bill would also require federal agencies to establish technology-neutral plans for reaching net-zero carbon emissions and would assign the Environmental Protection Agency (EPA) to "monitor, evaluate, and report on the progress of the United States in achieving the national goal." The bill has over 150 co-sponsors and the backing of eight national public health and medical organizations.

[H.R.5221 – 100% Clean Economy Act](#)



Cinthya Carrillo

Student
Activities Co
Chairs



Sargon Ishaya

Announcements



Interested in Outreach? ASHRAE can provide tools to help!

- ASHRAE and HVAC & R related presentations. Ideal for colleges, universities, & high schools
- Hands-on STEM activities. Ideal for K-8 classes.

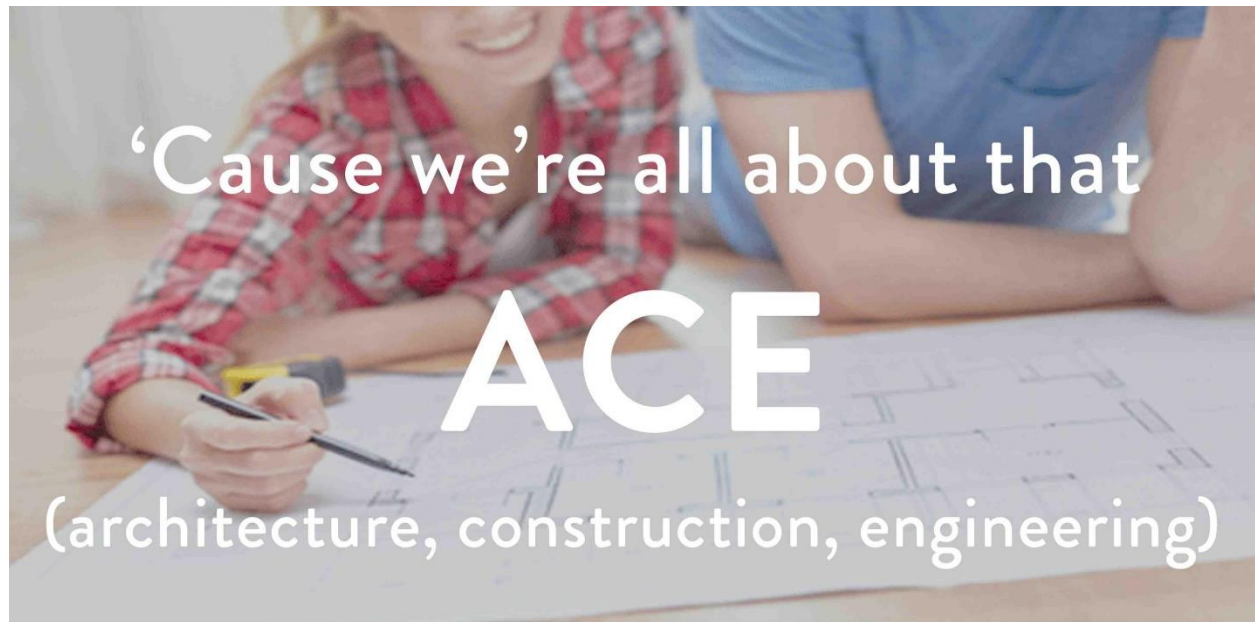
Thank you to our Bay Area Science Festival Volunteers

Juliana Velez
Cinthya Carrillo
Mitch Pinsker
Denis Dobrozdravich
Elise Kiland
Ferreya, Benito
Kiamehr, Koosha
Dooley, Bryan
Derossett, Hannah
Rob Potter



Alicia Tan
Sanjil
Alan McDermott
Nicole Olaes
Becky Courter
John-Paul Farsight
William Tsai
Carson Alexander
Alex Arguiano
John Gardner
Duane Genter





Join the 2019 ACE Program!

January—May 2019

- ✓ Participate in FREE weekly team activities.
- ✓ Learn about the many areas of the construction industry from guest speakers and mentors.
- ✓ Visit local construction sites.
- ✓ Gain valuable presentation and professional skills through team interaction & design projects.
- ✓ Learn about college programs and education necessary for architecture, construction, and engineering.

SJ1: Monta Vista High School

Room F-107
Tuesdays, 4-6 p.m.
Beginning January 15, 2019

SJ2: Independence High School

Room M-38
Wednesdays, 4-6 p.m.
Beginning January 16, 2019

SJ3: Yerba Buena High School

Room 901
Mondays, 4-6 p.m.
Beginning January 14, 2019



The ACE (architecture, construction, engineering) Mentor Program is a national nonprofit organization, reaching over 8,000 students annually. Learn more and register today at acementor.org/students.

Questions? Contact Hugh King at Hugh.King@salasobrien.com.

ASHRAE Travel Grant Winners



Keanu Heggem

Hello, I am Keanu Heggem. I am a senior year Mechanical Engineering student at San Jose State University. I was born in California but lived in Japan for almost 12 years before coming back to California to attend college. I joined ASHRAE in March of 2019 to earn connections to the HVAC field, and plan to attend the 2020 AHR Expo for the same reason. I hope to have a career in the industry.

Lei Tashiro

Hi my name is Leia Tashiro and I am from Hawaii! I am a 4th year Mechanical Engineering Major with a concentration in HVAC at Cal Poly SLO. After finding out that buildings consume 60% of our total energy usage and switching my engineering degree to mechanical, I figured that I would be able to fulfill a good purpose as well as apply my engineering degree in the HVAC industry. I have always been passionate about environmental protection and hope to work for a company in the Bay Area that shares the same passion. Besides studying and working on design projects, I always make time for playing volleyball, surfing, backpacking, and learning new instruments.

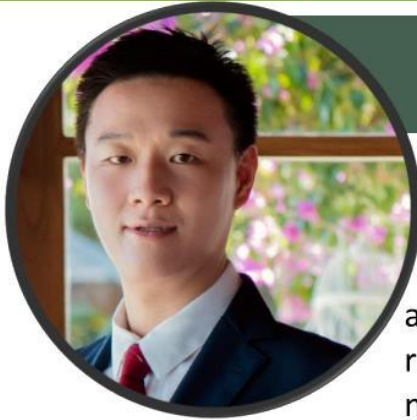


PJ McCurdy



I am grateful to have received one of the San Jose ASHRAE sponsorships to be able to attend the winter conference in Orlando. I am originally from Hull, Massachusetts and am currently pursuing a Master of Science degree in Mechanical Engineering concentrated in Thermofluids from Santa Clara University. I received my Bachelor of Science degree in Mechanical Engineering from SCU in June 2019. In addition to my academics, I am in my second year as an Assistant Resident Director in Residence Life which entails supervising a staff of 10 community facilitators and desk assistants and overseeing a community of 250 students. I was exposed to ASHRAE through my internship at Critchfield Mechanical Inc as a Project Engineer Intern during summer 2019. I am currently working on establishing an ASHRAE student branch at SCU to strengthen our university's relationship with the San Jose chapter. At the winter conference, I am looking forward to being exposed to the diversity of topics within the field. Attending this conference will allow me to continue to develop my own professional portfolio, explore my interests, and make connections in the field

ASHRAE Travel Grant Winners



Chenli Wang

Chenli Wang is a fourth-year Ph.D. candidate in the Mechanical Engineering Department at Santa Clara University. His doctoral research developed an economical energy management system for residential buildings. The work includes two parts: (1) measure/estimate the occupancy information via non-intrusive sensors, (2) adaptively control the HVAC system setpoints to provide a comfortable environment. He already published four papers about this work and won the best paper award in IMECE 2018. Chenli is also an excellent programmer, and he believes a good engineer is someone who can code with a deep understanding of the physical system.

Boeun Choi



Boeun Choi has completed a Bachelor's Degree in Mechanical Engineering at The City College of New York and is pursuing a Master's Degree in Sustainable Design and Construction at Stanford University. Through her research experience at the CUNY Building Performance Lab, where she worked for three years, she gained an understanding of HVAC and utilized her data analysis and writing skills across various projects. After graduation, she looks forward to working in projects that identify energy savings opportunities in built environment and implement solutions. She hopes that her work will become something that future engineers can look back and build upon.



Looking for an Internship or Full-Time Position?

- Post your resumes on <https://jobs.ashrae.org/>
- Look for the latest job listings!
- Available for Students and Professionals!

Looking to hire?

- Post your job openings on <https://jobs.ashrae.org/>
- Find qualified individuals looking to hire!

