



# San Jose Chapter



San Jose ASHRAE Members and Friends,

I wish I could comment on clear, crisp, fall air but it looks like another late summer and smoky fire season is in store for the Bay Area. Coupled with the ongoing interest in COVID-19 and other airborne pathogens, Indoor Air Quality (IAQ) is front and center on everyone's minds these days. We are very excited to welcome

Distinguished Lecturer Brian Monk to present at our October Technical Webinar on IAQ and Cognitive Function in High Performing Buildings. Join us virtually on October 13th to learn more about how we can better design and retrofit existing buildings for improved indoor air quality.

In the same vein, we're looking forward to having Distinguished Lecturer David Schurk present on Using Needlepoint Bipolar Ionization to Create Healthy Indoor Environments at our November Technical Webinar and Student Night. I'm sure many technologies will emerge due to our current climate and I'm looking forward to learning about this one. Current students can email [sanjoseashrae@gmail.com](mailto:sanjoseashrae@gmail.com) for free registration to both events.

If you were unable to attend the Terrarium Workshop for our Women in ASHRAE and Diversity in ASHRAE programs on September 24th, you missed a great event! Thanks to our wonderful sponsors, Norman S. Wright, Point Energy Innovations, and Heat Technology Products, we were able to build Pinterest worthy terrariums while enjoying planty humor from Seth with Succulence. I cannot thank Vanessa O'Connor enough for her initiative and creativity with planning this event for our chapter.

I very much missed our standard September Social and networking with friendly faces, but virtual whiskey tasting and chapter lore did not disappoint. Thanks to our sponsors, DMG North and LG, we were able to provide eighty members with tasting kits from 10th Street Distillery in San Jose. I want to thank Joe Chin for all his hard work planning this event and scrounging up some interesting facts about our chapter!

If you have ideas or requests for future meetings, both technical or social, please let us know what you'd like to see! This will be an unprecedented year and we are always looking for feedback as to how we can best serve our members. We are also always looking for sponsors and would love to work with you to create an event you'd like to be a part of.

I'm sad to announce that this years Winter Conference and AHR Expo have been postponed from January 25-27th in Chicago. We are cautiously optimistic that they will be conducted in person March 15-17, 2021. The decision will come on or before October 15th - stay tuned!

Stay healthy and safe,

Elise Kiland  
2020-21 San Jose Chapter President



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*Thank You*



# DIVERSITY IN ASHRAE & WOMEN IN ASHRAE

## TERRARIUM WORKSHOP

Thursday 9/24 -

San Jose ASHRAE held a terrarium workshop for Diversity in ASHRAE and Women in ASHRAE. We hope that everyone who attended the event enjoyed the workshop, and we are looking forward to planning more fun, virtual events in the future to keep us connected! For those who missed the event, Succulence taught us how to properly care for our succulents, and how to build a terrarium of our own with our terrarium kit.

If you're interested in learning more about Succulence, you can find more info on their website ([www.thesucculence.com](http://www.thesucculence.com)).

### Finally, THANK YOU to our sponsors!

Norman S. Wright (Premium Sponsor) - Covered the cost of the workshop and the terrarium kits, making this event possible!

Point Energy Innovations (Gold Sponsor) - Covered the cost of the \$25 food voucher so that members could have a fun meal to enjoy with the event!

Heat Technology Products (Silver Sponsor) - Covered the cost of the workshop for those who were on the waitlist, allowing everyone on the waitlist to sign up!

### THANK YOU TO OUR SPONSORS

#### PREMIUM SPONSOR



**NORMAN S. WRIGHT**  
Mechanical Equipment Corporation

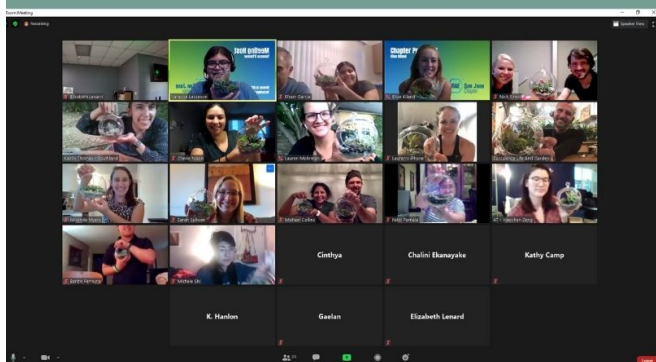
EST. 1906

#### GOLD SPONSOR



#### SILVER SPONSOR

**HEAT TECHNOLOGY PRODUCTS®**







SAN JOSE ASHRAE CHAPTER

# THANKS TO OUR SEPTEMBER SOCIAL PLATINUM SPONSORS



FOR FUTURE SPONSORSHIP  
OPPORTUNITIES, PLEASE EMAIL  
[SANJOSEASHRAE@GMAIL.COM](mailto:SANJOSEASHRAE@GMAIL.COM)



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## OCTOBER TECHNICAL WEBINAR

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### IAQ AND COGNITIVE FUNCTION IN HIGH PERFORMING BUILDINGS

**SPEAKER: BRIAN MONK, P.ENG, ASHRAE DL**

We welcome you to join us for the October technical webinar. Check in with our chapter and learn about indoor air quality – an exceedingly important topic during California fire season and the COVID-19 pandemic.

**Date:**                   October 13, 2020  
*Please note updated date!*

**Time:**  
Chapter Announcements                   12:00 PM  
Presentation                               12:10 PM

**Location:**           Virtual  
Log in information will be provided prior to the meeting

**Cost:**               \$10

**RSVP:** <https://sjashrae.org>



## Speaker:

### **BRIAN MONK, P.ENG, ASHRAE DL**

#### **NATIONAL SALES MANAGER, CARRIER**



Brian Monk is National Sales Manager, responsible for Carrier Custom Air Handling Solutions, specializing in design of air treatment systems, including airborne contaminant control and dedicated outdoor air systems with energy recovery.

Mr. Monk is also an instructor for Carrier University's Sustainability Symposiums under the International Association for Continuing Education and Training (IACET) program which provides CEU Credit for Professional Engineering Licensure.

His academic background comprises of a college degree in Applied Science (Building Systems Engineering Technology) from Vanier College of Montreal and a Bachelor of Building Engineering from Concordia University of Montreal. He is a Registered Professional Engineer with the Province of Quebec, Canada.

Mr. Monk is an ASHRAE Distinguished Lecturer, and Part-Time Professor in the Faculty of Building Engineering at Vanier College. He is also a member of the IAQA (Indoor Air Quality Association) and a member of Carrier's Healthy Building Center of Excellence committee.

## Presentation Summary

Achieving balance among desired goals for indoor air quality (IAQ), energy consumption, and occupant comfort within the built environment is challenging. The American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) endeavors to achieve this through guidelines and standards focused on advancing building science as it relates to environmental quality. This presentation will review the commonly used design guides found in ANSI/ASHRAE Standard 62.1, "Ventilation for Acceptable Indoor Air Quality."

The current form of ANSI/ASHRAE Standard 62.1 employs two mechanical ventilation procedures to provide acceptable IAQ in buildings: The Ventilation Rate Procedure and the Indoor Air Quality (IAQ) Procedure. While the Ventilation Rate Procedure provides only a dilution solution for the control of typical offending contaminants for a specified occupancy, the IAQ Procedure provides a directed approach by reducing and controlling the concentrations of selected air contaminants of concern through both dilution and enhanced air cleaning.

Rather than relying only on diluting the concentration of contaminants with outdoor air, designing with enhanced filtration of both recirculated and ventilation outdoor air can improve IAQ and result in the protection of the occupied space. This presentation will focus on the application of enhanced particle, gas-phase and biological filtration for compliance with Standard 62.1. An outline of the design aspects to consider will be reviewed, with the focus on achieving acceptable levels of contaminants of concern within the occupied space while considering the desire to meet high-performance building standards and improved cognitive functioning.



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## NOVEMBER TECHNICAL WEBINAR

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### USING NEEDLEPOINT BIPOLAR IONIZATION TO CREATE HEALTHY INDOOR ENVIRONMENTS

**SPEAKER: DAVID SCHURK, DES, CEM, LEED AP, CDSM, CWEP, SFP,  
CIAQM, HCCC, ASHRAE DL**

We welcome you to join us for the November technical webinar. Check in with our chapter and learn about how needlepoint bipolar ionization can create healthy indoor environments and safeguard the wellbeing of building occupants.

**Date:** November 11, 2020

**Time:**

Chapter Announcements	6:00 PM
Presentation	6:15 PM

**Location:** Virtual

Log in information will be provided prior to the meeting

**Cost:** \$10

**RSVP:** <https://sjashrae.org>



## Speaker:

### DAVID SCHURK

DES, CEM, LEED AP, CDSM, CWEP, SFP, CIAQM, HCCC, ASHRAE DL  
**DIRECTOR OF BUSINESS DEVELOPMENT, GLOBAL PLASMA SOLUTIONS**



David Schurk DES., CEM., LEED-AP., CDSM., CWEP., SFP., CIAQM., HCCC., ASHRAE Distinguished Lecturer, Director of Business Development for Global Plasma Solutions in Charlotte, NC. He is a Licensed Designer of Engineering Systems and has over 35-years of experience in the design and analysis of heating, ventilating, and air-conditioning systems for a variety of market sectors, with a special focus on healthcare facilities. David has authored various technical articles for a number of industry trade journals and magazines and is a featured presenter at regional and national industry events. He can be reached at David.schurk@globalplasmasolutions.com or 920-530-7677

## Presentation Summary

The recent worldwide healthcare pandemic has pushed the airborne transmission of the SARS-CoV-2 virus (COVID-19 disease) into the spotlight. Buildings and structures of all types have remained virtually empty while the public quarantines at home or maintains safe social distancing. As the country attempts to reengage economically many have anxiety about repopulating buildings and being exposed to others indoors. This has left HVAC professionals wondering how they can quickly adapt to ensure society that everything possible has been done to reduce the spread of infection and safeguard the health and wellbeing of building occupants after they walk through the front door.

This presentation will provide the most recent information on Needlepoint Bipolar Air Ionization (NPBI), which has recently undertaken 3rd party independent laboratory testing with results confirming it can inactivate 99.4% of SARS-CoV-2 viral particles within 30-minutes. This is a "game-changer" for those who have been so diligently working to create safer and healthier indoor environments considering the current pandemic.

Topics addressed will include:

- The latest ASHRAE guidelines and recommendations.
- How NPBI technology can help make traditional mechanical filtration and ventilation more effective.
- How NPBI can help the HVAC system contribute to "indoor social distancing"
- Ozone generation considerations, concerns, and regulations.
- How tested-and-proven NPBI technology works to inactivate viruses, kill pathogens, agglomerate particulate and save energy, all resulting in superior indoor air quality, contributing to the health and safety of occupants within building of all types.



Vanessa Lasseson

### Membership Promotion Co Chairs



Benito Ferreyra

San Jose would like to welcome the following members:

**Associate:**

- ❖ James Sandoval
- ❖ Caleb Granch
- ❖ LeAnne Cossairt-Leung

"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](http://www.ASHRAE.org).  
Select "My ASHRAE"  
Select "Review/Update  
Profile"

#### 3 - Notify / email ASHRAE.

Email [membership@ashrae.org](mailto: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)

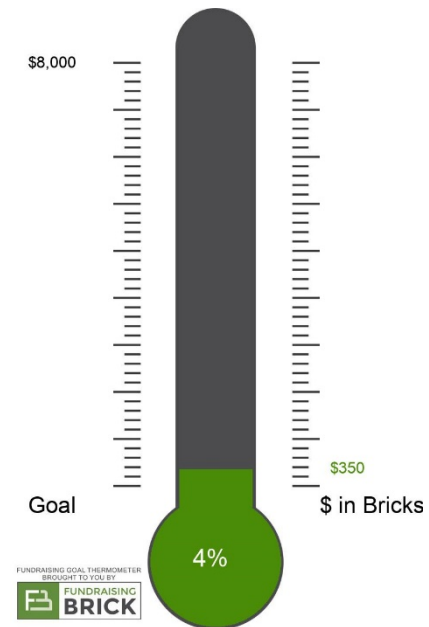
Is (F) at least 12? Then you qualify for full membership!

Update your member bio online today [www.ashrae.org](http://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.





Rushang Shah

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 Lasseon

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 Announcements:

- ASHRAE Guidance for Polling Place HVAC Systems Shared with Boards of Elections for All 50 States



#### GAC Announcements:

- House Democrats Introduce Broad Energy Package
- House Energy and Commerce Subcommittee Hearing on Low-Carbon Recovery



## GAC ANNOUNCEMENTS



### **ASHRAE Guidance for Polling Place HVAC Systems Shared with Boards of Elections for All 50 States**

#### *ASHRAE Government Affairs Update*

The new ASHRAE guidance document issued by the Epidemic Task Force on August 19, "Guidance for Polling Place HVAC Systems", was sent to the Board of Elections (or equivalent agency) in each of the 50 states, as well as to the National Governors Association and the U.S. Election Assistance Commission. The guidance contains a summary of key general recommendations related to HVAC and water supply systems at polling places, to protect voters and poll workers from COVID-19 infection. The Guidance for Polling Place HVAC Systems can be found [here](#).

### **House Energy and Commerce Subcommittee Hearing on Low-Carbon Recovery**

#### *ASHRAE Government Affairs Update*

On September 16, the Subcommittee on Environment and Climate Change of the Committee on Energy and Commerce held a hearing entitled, "Building a 100 Percent Clean Economy: Opportunities for an Equitable, Low-Carbon Recovery." To watch the hearing and view testimony, click [here](#).

### **House Democrats Introduce Broad Energy Package**

#### *ASHRAE Government Affairs Update*

Democrats in the House of representatives introduced an [894-page energy package](#) on September 15 that grouped together over 70 previously introduced bills. The energy package covers a wide range of energy policy from energy efficiency, renewable energy, electric grid and cybersecurity, transportation, and environmental justice. The bill includes several sections that affect the built environment such as building energy codes, school buildings, and federal facilities.

Additionally, the bill contains the *American Innovation and Manufacturing Leadership Act* (AIM Act), which would start the phasedown for the production and consumption of hydrofluorocarbons (HFCs) over a 15-year period and authorizes the Environmental Protection Agency (EPA) to regulate them. ASHRAE wrote a [letter of support](#) for the goals of AIM Leadership Act earlier this year. [Click here](#) to learn more about ASHRAE's position on *Refrigerants and their Responsible Use*.

Amendments to the bill must be submitted by September 18. The legislation is expected to be considered the week of September 21 and can be [viewed here](#).



Sargon Ishaya

Student  
Activities Co  
Chairs



Chalini Ekanayake

## 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.





## 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!



## **JOB POSTING**

### **Mechanical Engineer – HVAC and Plumbing**

#### **AGC Inc.**

745 Camden Avenue, Suite B  
Campbell, CA 95008

#### **Job Summary**

AGC Inc. is a Design/Build firm looking for a Mechanical engineer to assess the needs of our clients, develop a coherent solution, and execute.

#### **Job Description**

- Design all types of mechanical systems for the building industry including HVAC, plumbing, and process piping.
- Prepare load calculations, distribution loss calculations, reports, and engineering studies to support the design solution.
- Perform site visits to examine existing conditions and validate field construction.
- Develop project drawings using AutoCAD MEP or Revit to capture all scope for bidding and construction.
- Coordinate with other trades during design and during construction phases as required for coordination.
- Work with equipment vendors to size and select air handlers, pumps, boilers, compressors, etc.
- Work with project manager to keep the project within budget and to track changes to the design.

Please email your resume and relevant experience to [Richard@agcinc.com](mailto:Richard@agcinc.com).