

SONE AIR NEWS

"Healthy Buildings: Designing for Life."

"Balancing energy efficiency with good IEQ ensures that buildings are not only environmentally sustainable but also conducive to the health and productivity of their occupants, creating a win-win situation for both people and the planet."

- Bill McQuade, ASHRAE President 25-26, P.E., CDP, Fellow ASHRAE, LEED AP

ASHRAE Distinguished Lecturer AI in HVAC Industry: Past, Present and Future

Krishnan Gowri has more than thirty years of experience in the construction industry as a building science and building performance expert. Krishnan received his undergraduate degree in Civil and Structural engineering from Annamalai University in India and obtained his Masters and Doctoral degrees in Building Engineering from Center for Building Studies at Concordia University, Montreal, Que. He is a student of Dr. Paul Fazio, founding Director of Center for Building Studies. As a graduate student, Krishnan conducted research in integrated building design and advanced computer applications for the construction industry. He was an Assistant Professor at Concordia University and taught building science, matrix analysis of structures and integrated building design courses.



Since 1995, Krishnan was part of the Building Energy Codes Program as Senior Research Scientist at the Pacific Northwest National Laboratory (PNNL) in Richland, WA. During his almost 20 year tenure at PNNL Krishnan led the energy codes software development team and was a key contributor and developer of COMcheck and REScheck tools, widely used to demonstrate compliance to ASHRAE 90.1 and IECC energy codes. He was instrumental in simplifying the energy code compliance calculation process and has helped industry professionals navigate regulatory frameworks with ease. Krishnan also managed a team of energy efficiency experts conducting energy performance evaluations of GSA owned buildings and helped develop a new program known as Targeted E4 (Energy Efficiency Expert Evaluations). Krishnan was Principal Engineer of Autodesk Building Performance Analysis team and contributed to the integration of cloud-based energy analysis in Revit. This included automatic EnergyPlus model creation from Revit models. Currently Krishnan leads the Building Performance team at Intertek providing thermal, moisture and energy assessments of existing buildings and reviewing new building designs to improve performance.

IMPORTANT CHAPTER DATES

The following are the upcoming ASHRAE Monthly Meetings:

- Oct. 21
- Nov. 7
- Nov. 14 – Pickleball
- Dec. – Holiday Event
- Feb. 17
- March 24 – Dinner Event
- April 21
- May - Tour

Annual Golf Tournament

November 7, 2025

Rhodes Ranch Golf Course

Shotgun Start - 7:30 AM

ASHRAE Winter Conference

Jan. 31 – Feb. 4

Las Vegas, NV

Hope to see everyone there!

BEERS with the BOARD!!

October 16, 2025

3:00 pm – 5:00 pm

WSKY Bar + Grill

5560 W. Warm Springs Rd.

Las Vegas, NV 89118

Krishnan has been a member of ASHRAE since 1995 and has served on various technical and society committees. Krishnan is a recipient of ASHRAE Distinguished Service Award and recognized as an ASHRAE Fellow in 2017. He is currently the Chair of 2027 Applications Handbook Subcommittee and serves as a member of the Board of Governors of ASHRAE Puget Sound Chapter.

Beyond his academic, research and industry pursuits, Krishnan spends his leisure volunteering for non-profit educational organizations and anything tennis – as a player, stringer, certified official and coach.

Presentation Synopsis:

Early AI applications in the HVAC industry started with knowledge-based systems or expert systems applications for HVAC system selection, design and fault-diagnosis based on heuristics. At the same time, data analytics were explored for time-series data analysis for predicting energy use and using BAS data for fault detection and diagnosis. Recent advancements in conversational AI and machine learning techniques have taken the world by storm where every aspect of our work and daily lives will be impacted by these next generation AI technologies. During the early 1990's, knowledge-based systems and AI application promises fell short of expectations in the HVAC industry. However, with cloud-based computing, internet information resources, and rapid advancements in natural language processing and conversational AI, the HVAC industry can now solve many challenging problems with analysis, design and operation. This presentation will review the history, terminology, concepts, development tools and application of recent advancements in AI for ASHRAE members; and provide an overview of AI Chatbot and machine learning technologies for HVAC industry applications.

Please Join Us for this Years Annual ASHRAE Golf Tournament!

Still looking for Tee-Box Sponsors

Location: Rhodes Ranch Golf
20 E. Rhodes Ranch Pkwy
Las Vegas, NV 89148

Register online at [ASHRAE Of Southern Nevada - 2025 Golf Tournament](#).



Please Join Us for our Chicken-N-Pickle YEA event!

Location: Chicken n Pickle
3381 St. Rose Parkway
Henderson, NV 89052

Register online at: [ASHRAE Of Southern Nevada - Meeting/Event Information](#)

This month's Newsletter is brought to you by:



If you would like to sponsor next month's Newsletter, please contact Amber Aguilar 702-379-7769

IMPORTANT CHAPTER NEWS

Sponsor a Luncheon

Be our next RP sponsor and donate 2+ Raffle prizes!

Please Contact:

Jason Reese

jreese@innovanv.com

Golf SWAG Bag items

ASHRAE is looking for SWAG items for the golf bags.

144 count per item(s) donated

If you are able to donate, please contact Amber Aguilar

aaguilar@airtelligence.com

AWARDS WE WON for 24-25!

ASHRAE of S. Nevada won the following awards in August:

RP Goal & High Five Award

**Mark Baker – Gold Ribbon Award
& Historian of the Year**

Good Job ASHRAE of S. Nevada!