FEBRUARY TECHNICAL MEETING

CENTRAL CHILLER PLANTS TURN UP GOLD

Speaker: Verle A. Williams, P.E.

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 8th, 2017

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

Time:
Check-in and Social: 5:30PM
Presentation with Dinner: 6:30PM - 8:15PM
YEA Mixer: 8:30PM – last drink served

Cost:
Early bird Registration fee: $ 50/- (By Midnight on Feb 6)
Late Reg./Walk-ins/Non-Members: $ 60/-

RSVP: https://sanjoseashrae.wildapricot.org/
Verle Williams, a registered Professional Engineer and a Certified Energy Manager, is the owner and president of Utility Services Unlimited, a professional consulting firm specializing in energy efficient systems studies, designs and performance verification. Mr. Williams is a 1960 graduate of the University of Colorado at Boulder, with a BS in Mechanical Engineering, and a BS in Business.

Mr. Williams' specialty for 41 years has been automatic controls, their application to solve complex challenges, and their design for reliable and simplified operation. His consulting services have taken him into many complex plants and challenged him to get "out of the box" and think about solutions that are outside the normal procedures and systems format.

Mr. Williams has spoken on various energy-related topics to many national society meetings, local technical society meetings, and civic organization meetings, and has written over 35 published articles and papers. He has taught energy conservation classes at the University of California, San Diego Engineering Extension College, North Seattle Community College, and miscellaneous refresher classes in the area. Mr. Williams is very active in local and Society-level ASHRAE activities. He is a Fellow/Life Member of ASHRAE and has received numerous awards through the years.
Topic:  
Central Chiller Plants Turn Up Gold

Overview:

Energy consumption of chiller plants often goes unchecked. This area has literally been a gold mine of conservation opportunities for 99% of the chiller plants visited. Starting with the pumping system, what pressure differential is there? What is needed in the buildings or air handlers served? What about the devices absorbing the pressure differential? Are they needed or is there another way to accomplish the goal? Is there a balance between the required flow and the pumps installed? Is it a constant speed primary-secondary, a variable primary, or a constant primary-variable secondary pumping system? If it is variable speed pumping, what controls the speed of the pumps?

How about the control system? Are the pumps controlled as one element of an integrated control system, one that reads the needs of the devices served to determine the pump speed and pressure differential? Can the operator easily diagnose the total plant operation with the control system central station? In case of an emergency, can one dial in and look at all systems from a laptop from off-site? Are the flow readouts reliable? Does the control system integrate directly with the chiller control system?

Want to talk about control systems? Come to the meeting and do just that.