Conference Agenda 2012

Concurrent Sessions I • 9 - 10:30 am

Creating the Successful Transplant
Robb Ellis , Sales Engineer, FIA, Inc.
The new high efficiency boiler you are installing is the heart of the heating system and it relies on the rest of its heating body to provide reliable long lasting indoor comfort. What effects can the existing body have on the new "heart" and how can we identify potential problems with the air control, distribution and other components to avoid efficiency loss and premature wear and tear on the new equipment. Also learn how to get the maximum performance and energy savings out of a system by insuring proper sizing and setup of the new boiler.

Tankless, On-Demand Water Heating-teardown class.
John Murphy, Business Development Manager, Sweeney Rogers Geraghty, Inc.
This special 3 hour class will be limited to 32 participants. The class will include a brief introduction on the installation practices of tankless, on-demand water heaters. Next, participants will tear the units apart and put them back together. During tear down participants will go over the components in the box and how they each work. They will then go over trouble shooting the electrical components in the units. Finally, they will go over the venting for both non-condensing and condensing units.

Stand By Generators
Mike Rather, Northeast Territory Manager, Honeywell, Inc.
Are your Residential or Commercial Customers inquiring about natural gas and propane powered stand-by generators? This session will help you prepare for, and take advantage of this fast growing segment of the HVAC Industry. Participants will be presented with a high-level discussion on how stand-by generators work including gas pressure, meter sizing and flow limiter requirements. You'll also learn how to partner with local gas utilities on proper applications.

Proper Piping Techniques
Rick Johnson, Technical and Training Manager/NESO, Weil-McLain
A discussion on indirect fired hot water heaters, from selection to installation. We will discuss how to select the correct size of the indirect based on the home's domestic hot water needs. Learn how to get the most out of your indirect by understanding the importance of selecting the correct pump. You will learn how to determine pipe sizes based on the BTUs of the boiler and the different ways to pipe an indirect into a low mass system.

New Controls
Bruce Marshall , Training Coordinator, Emerson - Swan
The "New Controls for Taco" seminar will introduce the new family of switching relays including the SR series and the ZVC series. The simplified wiring schematics as well as the improved functionality will be highlighted. We also show the latest technology in low water cutoffs for both steam and hydronic systems. We will show how heating systems can be made to run more effectively by using the new Zone Sentry zone valve and the Delta T variable speed pump combination. Finally we will show what's new in outdoor reset controls and how the contractor can easily add outdoor reset to most existing hydronic systems.

Will this Duct System Work?
Charlie McCracken, Trainer, Conservation Services Group
Making new furnaces with ECMs work with existing ductwork.
This session will discuss the different air flow requirements and capabilities of old and new furnaces, as well as include a duct design tutorial using a ductulator, to Manual D standards. The airflow and energy consumption of standard blower motors and the 2 types of ECMs will be discussed, as well as the role of properly sizing the replacement equipment. This session is useful for heating and cooling contractors involved in GasNetworks and CoolSmart rebate programs.

"Greening Steam"
Dan Holohan , President
Dan Holohan Associates
It's not easy being green, especially when it comes to America's older steam-heating systems. Most of those old systems are unbalanced, which leads people to either open the windows on the cold days, or shiver and then buy electric heaters to make up for it. In this session, Dan Holohan will show you how to "green" steam and get the most efficiency out of those vintage systems.

TRAIN WITH THE EXPERTS!

Concurrent Sessions II • 10:45 - 12:15 pm

Creating the Successful Transplant
See presenter/session description from Concurrent Session I

Duct Leakage Testing
Mark Newey, Director of Training and Green Building Services, Center for EcoTechnology
The IECC 2009 and IECC 2012 require duct leakage testing for all residential duct systems with ducts outside the heated space. This session will review the duct leakage testing requirements of the IECC 2009 and 2012, explain how duct leakage testing is performed, and provide an overview of what needs to be sealed in order to pass the test.

Proper Piping Techniques
See presenter/session description from Concurrent Session I

New Controls
See presenter/session description from Concurrent Session I

"Greening Steam"
See presenter/session description from Concurrent Session I

Nexia Home Intelligence System
Greg Walters – American Standard
Looking for a way to help your customers save energy and enhance their peace of mind? Not just a thermostat on the wall anymore. The Nexia Home Intelligence System provides the most cost effective HVAC Thermostat / remote monitoring system on the market. Greg Walters will review the myriad applications of this cutting edge technology including HVAC system monitoring, security systems and more.

Proper Duct Design & Testing Sensible Gains
Christopher Morin, Conservation Services Group / Cool Smart HVAC Tech Field Rep.
Overview of ACCA Manual D and how sensible gains due to insulation R-Value impact system EER. This session will start with an overview of ACCA's Residential Duct Design Manual to include available blower static, total equivalent length values, calculating friction loss, proper use of the air duct calculator, and basic trunk and branch sizing (Manual D Worksheet). We will discuss current regulations on duct insulation and how poor insulation affects system capacity and energy efficiency ratio (EER).

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Energy saving solutions from your local gas company