2016 RESNET Building Performance Conference
Pre-Conference Session Nominations

Advanced Water Systems in High Performance Homes
As we move toward more water efficient homes, we should be considering the use of grey water, rain water and AC water systems. In all of these systems there is a method of capturing the inflow water, treating it as applicable, storing it, if applicable for future use and then using that water for another purpose; thereby displacing the use of potable water. This session will discuss these advanced systems and take a field trip to see them.

Type: Half Day

Presenters: Anthony Floyd, City of Scottsdale and Gary Klein, Gary Klein and Associates

Applying the Principles of a WER to Landscapes
2016 RESNET is being held in Scottsdale, AZ, a climate known for its relative scarcity of precipitation. This session will demonstrate good landscape practices for this climate and show how the choices can be incorporated into a water rating system.

Type: Half Day

Presenters: Anthony Floyd, City of Scottsdale and Gary Klein, Gary Klein and Associates

Energy Rating Data Collection, Storage, and Sharing using Axis
This session will consist of two sections:

Section 1: Overview of Axis (60 minutes)
The first hour of the session will provide an overview of Axis, a cloud-hosted database solution specifically designed for the collection, storage, and sharing of energy rating data. Axis is used by leading energy efficiency program sponsors and utilities to administer residential new construction energy efficiency programs and can also be used by HERS Raters/Providers and home builders to centralize energy rating data and program-specific data. The Axis platform can also be used for QA purposes, incentive payment processing, and general workflow and data management. Axis can benefit program sponsors, utilities, home builders, HERS Raters, HERS Providers, HVAC organizations, QA agents, program evaluators, appraisers, real estate agents, and more! Come see what Axis is all about!

Section 2: Advanced Axis User Training (remainder of the session time)
The second half of this session will focus on training for existing Axis users and will cover both topics prepared by the Axis team AND topics requested by users throughout the country. Topics will include: community/subdivision contracts, bulk home creation, messaging options, and workflow support. This is your chance to meet with Axis developers and support personnel face-to-face to learn more about the Axis solution and provide feedback for future product enhancements.

Type: Half Day

Presenters: Clinton Heyn, Pivotal Energy Solutions and Bob Burns, Pivotal Energy Solutions

Implementing the Hot Water Provisions in the RESNET ANSI standard
2015-16 is the year of water for RESNET. This session will discuss the changes to the standard to account for measures that reduce the consumption and waste of hot water and the changes that adjust the amount of hot water and the associated energy in the energy budget by climate zone. We will go into depth on the various measures that can now get credit for hot water use efficiency. These measures are some of the most cost effective ways to improve a HERS score. Perhaps more importantly, several of them improve customer satisfaction. We plan to divide the time between explaining the measures and getting participant feedback on their early experience in implementing the provisions.

Type: Half Day

Presenters: Gary Klein, Gary Klein and Associates and Philip Fairey, Florida Solar Energy Center

Multi-fan Testing 101
Multi-fan testing is one of the newest markets for Raters. This session will cover the fundamentals of multi-fan testing that is used in multifamily small commercial structures.
The session objectives include but not limited to
• Setup & perform multi-fan tests
• Test to a specific standard RESNET, USACE, ASTM & LEED
• Calculate number of fans needed
• Determine best fan placement
• Neutralize or isolate areas not being tested
• Testing the air barrier or normal operating conditions
• Perform compartmental tests like area to area or floor to floor test
And Running 2 - 6+ fans simultaneously
The session will cover manual testing vs automated software testing. We will include live demonstrations and exercises will mimic real world conditions and allow you to identify and solve testing issues.
This course will be offered in the Fall or 2015 in Atlanta and Chicago and at the multifamily conference in New York.

Type: Full Day

Presenters: Joe Medosch, Energy & Environmental Consulting llc

Performing Multifamily HERS Ratings
Join Abe Kruger of SK Collaborative and Glenn Pease of EnergyLogic to learn about Multifamily HERS Ratings during a RESNET pre-conference session! This session covers the ins and outs of multifamily, including building level and unit level HERS Ratings. During the session, we will rate a sample project as a group from plans and go through the process of selecting the "worst case" units. Topics covered include: how to address common areas, elevator shafts, commercial spaces, adjacent structures, party walls, duct leakage testing, sampling and other updates you need to know. If you're not considering multifamily buildings in your scope of services you may be missing out.

Type: Half Day

Presenters: Abe Kruger, SK Collaborative and Glenn Pease, EnergyLogic

Saving Energy and Saving (Hot) Water in New Homes
Which floor plans that meet the WaterSense for Homes or Net-Zero Ready requirements for hot water distribution systems? Are there any hot water distribution systems that can deliver hot water to every plumbing fixture and appliance within 15 seconds after opening the tap? Learn how to improve customer satisfaction by improving the water, energy and time efficiency of the hot water systems in your new home designs. This seminar includes a field trip to nearby home site(s) where we can view the rough-in plumbing.
Limited seating: Maximum 20 people

Type: Half Day

Presenters: Gary Klein, Gary Klein and Associates

SketchUp for Energy Professionals- Quick, Accurate, Powerful Takeoffs
SketchUp is a powerful graphic modeling tool developed by Google and now owned by Trimble. EnergyLogic has successfully adopted SketchUp to streamline the take-off process for all of our builder clients. With it's 3-D depiction of the thermal envelope, it has also proven to be a strong tool when reviewing probationary ratings, performing quality assurance, and field verifying a house was built to the original model. This training is designed to provide an overview of SketchUp and provide you with practice designing a 3-D model. Then we will use the scripts developed by EnergyLogic to generate a report designed for easy input into REM/Rate. Using SketchUp by itself will improve your speed and accuracy in performing take-offs, but with EnergyLogic's custom reporting script designed for easy input into REM/Rate, you'll find this method is not only fun, but cuts takeoff time in half! This course is designed for HERS Raters or other energy professionals with equivalent experience with energy modeling. It has been specifically designed to help complete accurate take-offs with quick from-plans rating data collection.

Type: Half Day

Presenters: Glenn Pease, EnergyLogic

Tomorrow Belongs to the High Performance Home: How to Engage the Real Estate Community Today
There are over 2.5 million green certified homes in the market place. In 2001 there were nearly zero. Since the average tenure of home ownership is nine years, these homes will likely be available for resale soon. It's the right time to reach out to the real estate community with the business case for considering the thriving high performance home market. However, successfully engaging that community requires a thorough understanding of how to align the strategic interests of many stakeholders. There are innovative contractors and energy efficiency organizations successfully engaging their local Realtors and MLSs, and forming relationships that will ultimately transform the single family home market. This in-depth training will feature those groundbreakers and will create a new group of leaders ready to demonstrate the value of the high performance homes market in a way that resonates with the real estate community. Training content will focus on the first five steps of the Visible Value white paper ("Unlocking the Value of an Energy Efficient Home: A Blueprint to Make Energy Efficiency Improvements Visible in the Real Estate Market"): Documenting upgrades, disclosing inventories, continuing education, green MLS usage and appraiser designed valuation studies. Attendees will learn how to overcome barriers, effectively engage with real estate, and learn about potential ways to fund their work.

Type: Half Day

Presenters: Pamela Brookstein, Elevate Energy; Anthony Roy, Earth Advantage, Jeffrey Gephart, Vermontwise Energy Services, Inc. and Bruce Mast, Build it Green