



## **2018 RESNET Building Performance Conference Breakout Session Nominations**

### **Home Energy Ratings**

#### **There is an App for That - is back. Lets go to the next level ...**

This session will become a standard at RESNET conferences. Demonstrations of some of the best apps / devices for testing and performing many of the required measurements for a Rating. Measurements? We'll scan the room with Apple & Android devices and measure the room live. There are multiple different ways to measure a room or wall; we will demonstrate multiple apps that do this with ease. Want precision measurements - Laser devices that can send the readings to your phone/tablet - and provide an Excel sheet. Nice! How about duct testing on the fly or trying to find the leaks in the attic or crawl space and turning on/off the duct tester as you go. Handy! While standing in the living room, turn off the blower door fan so you can explain to your clients the conditions, then turn it back on and let them feel the air moving through the switch plate. These apps can do that. Creating a sketch up model of the home and export the surface area and volume. EnergyLogic has a solution and a training module. We'll demonstrate this in the session. But wait there is more... but you have to come to the session to see. If you want to see what's out there now and coming up next - this session is must for those who are on top of their game. Last year this session rocked and several asked me to update it and present it again. Here's a sample which includes James Hardie Contractor's Eye (aka Hover) must see app!

[www.dropbox.com/s/joy4mrhtmbtpqu8/Theres%20An%20App%20For%20That%20sample.pdf?dl=0](http://www.dropbox.com/s/joy4mrhtmbtpqu8/Theres%20An%20App%20For%20That%20sample.pdf?dl=0)

Suggested Presenter(s): Joe Medosch, Energy & Environmental Consulting llc

#### **New construction & healthy homes: Observations & Measurements & for Raters**

New construction & healthy homes: Observations & Measurements & for Raters Formal studies and anecdotal experiences have homeowners thinking more and more about achieving a healthy indoor environment. Many factors play into this including siting; choice, installation and maintenance of materials, systems and furnishings; as well as the activities of the occupants. Come to this session to learn about some of the observations & measurements a Rater can make to help homeowners achieve a healthy home. Learning outcomes: 1) The health impacts of poor indoor air quality 2) Which materials, systems and furnishings and

practices contribute to poor indoor air quality 2) Which materials, systems and furnishings and practices contribute to poor indoor air quality

Suggested Presenter(s): Bill Spohn, TruTech Tools, LTD

### **AirFlow Measurements 2018 Edition**

Airflow Measurements: 2018 Edition: Learn the wide variety of measurement methods and the pluses and minuses of each. Dig into the science behind good airflow measurement, as well as the importance of considering air density corrections. We will also cover the ins and outs of picking the correct tool for the measurement task or application. We will present test data about relative accuracies of some of the measurement types. Every major airflow measurement tool and technique will be explored and explained, especially those impacting RESNET ratings.

Suggested Presenter(s): Bill Spohn, TruTech Tools, LTD

### **The Value of HERS Regional Associations**

There are a few regional associations supporting the HERS Industry, such as the Northeast HERS Alliance. This session will provide a panel of members from various associations across the country and highlight how they help strengthen, advance, and create consistency in the industry through training, feedback, outreach and industry support.

Suggested Presenter(s): Emelie Cuppernell, Performance Systems Development

### **The Independent Provider - What are they providing?**

The role of the Independent third party RESNET QA Provider has changed over the last decade along with changes in the industry, changes in standards, and changes with RESNET. What does a provider provide? What can a rater expect? How has this changed? What changes are expected to come? This session will cover the changing role of the Independent QA Provider and the range of services available.

Suggested Presenter(s): Emelie Cuppernell, Performance Systems Development & Ethan MacCormick, Performance Systems Development

### **Taking Innovative building to Energy Modeling - why does it take so long**

We have to engage industry players to collect data that demonstrates true performance. RESNET should outline a process for developing the collection of valid data sets so that manufactures or others could legitimately present proposals to change the RESNET standards and intern more accurately model the energy performance of specific products or class of products or building techniques. Let's move from an organization that accepts the word of one or two to a truly data-driven standard-setting body.

Suggested Presenter(s): Steve Byers, EnergyLogic & Robby Schwarz, EnergyLogic

### **Making LEED Accessible for Single Family Builders: Success with Streamlined Production Certification, and Major Rating System Updates**

Learn about major new LEED For Homes Rating System updates that make LEED more streamlined and accessible for single-family builders. Hear how one rating company has successfully implemented the new production home certification pathway, which helps deliver LEED certification on a production builder timeline - including certification within a week of final inspection. USGBC has been hard at work to make LEED for Homes V4 more flexible and accessible, specifically targeting the production home builder market with modified rating system requirements and point thresholds that reward best practices in high volume single family construction. In addition, a new certification pathway based on the DOE Zero Energy Ready Home program helps ease the transition from ENERGY STAR to LEED certification. Join Asa Foss, Technical Director of LEED for Homes, who's been putting all this together at USGBC, and Tom Flanagan, LEED Quality Assurance Manager for EnergyLogic, who's been making it all work in the field, to get the skinny on these transformative program updates – addressing the three major hurdles to making LEED digestible in a production environment: cost, timeline, and administration.

Suggested Presenter(s): Asa Foss, US Green Building Council & Tom Flanagan, EnergyLogic, Inc.

### **HERS Raters, HERS Ratings, and Code Compliance - The problem (opportunity?) with non-HERS code compliance ratings that receive no 3rd party oversight**

This session will have two parts:

- 1) Analytics part presented by Ekotrope: - How many houses are meeting the performance code using RESNET accredited software without being registered or QA'd (though a data analysis or a survey)? -Market conditions - What raters are charging for code compliance as compared to HERS ratings, time spent on code compliance etc.?
- 2) A panel with raters/provider discussing questions like: -How can we get more HERS ratings done in the code compliance market? - What are the key impediments? -How can technology assist?

Panel participants list includes Steve Saunders, Jeffrey Sauls, Brett Dillon, Robert Schildgen.

Suggested Presenter(s): Cy Kilbourn, Ekotrope; Steve Saunders, US-EcoLogic & TexEnergy; Jeffrey Sauls, Energy Vanguard; Robert Schildgen, Priority Energy & Brett Dillon

### **HERS, ENERGY STAR and Beyond! The Value of High Performance Homes and Energy Ratings**

NEEA, the Pacific Northwest's Regional Energy Efficiency Organization, has embarked on a mission to foster collaboration between multiple whole home certification programs and aggregate the data collected by the various programs to create a regional data hub of all

above code certified homes. The aggregated address-level data is used for a variety of purposes, including: determining energy savings, informing code development and program design, tracking market activity and building trends, and more! This session will present the challenges of program collaboration, expand on the uses of the aggregated data, explore opportunities to develop new value propositions for home certification programs, and propose how raters, verifiers, and homebuilders can benefit.

Suggested Presenter(s): Neil Grigsby, NEEA; Matthew Christie, TRC; Mark Wyman, Energy Trust of Oregon & Bob Burns, Pivotal Energy Solutions

### **Adapting the HERS Index to Technology and How to change the RESNET/ANSI Standard**

The RESNET/ANSI/ICC 301-2014 standard is spot on in many cases, but on the flip side there are three distinct areas where changes need to be made. 1. Better integration with the realities of rating field work. 2. More data drive modeling guidance. 3. Faster and more accurate adoption of new technologies into modeling. The ANSI process gives everyone the opportunity to affect change. Manufactures, Raters, Builders and others are concerned about proper modeling and the rating process. In order for the standard to continue to evolve, standard change proposals need to be more data driven. Data of all kinds is needed to drive accurate change, but we need to know and better understand how to get involved to successfully shepherd a proposal. This session covers the who, what, when, and why of proposing a change to the RESNET/ANSI Standards.

Suggested Presenter(s): Robby Schwarz, EnergyLogic; Ben Graham, EnergyLogic & Glenn Pease, EnergyLogic

### **One Standard, Multiple Software, Inconsistent Results?**

Has anyone compared the three most widely used software's? We have. From a Rater's perspective we will reveal our opinion of the pros and cons of the three most widely used Rating software's. How do they stack up and how are they working toward delivering consistent results. Some of the criteria for comparison include: - Usability/navigation - Functionality – HERS, Code, Programs -Reporting -Result alignment -Ease of troubleshooting - Help menus -Other Strengths & Weaknesses -Error messages -Software support

Suggested Presenter(s): Robby Schwarz, EnergyLogic; Ben Graham, EnergyLogic & Glenn Pease, EnergyLogic

### **Top 10 Things Every Rating\* Company Should Do**

There are many things every rating company must do to stay in business; once you've checked the necessities off the list, where do you go from there? As a large scale rating company,

national QA provider, and software developer, EnergyLogic would like to share the top 10 things we think every successful rating company should do. Whether you're new to managing a business or have experiences to share, we'd love for you to join us in this engaging opportunity. *\*While we will focus on our experiences as an Energy Rating, Quality Assurance, and Software Business, we think any business area could benefit from this session.*

Suggested Presenter(s): Robby Schwarz, EnergyLogic; Steve Byers, EnergyLogic & Glenn Pease, EnergyLogic

### **Selling Yourself - The Value of a HERS Rater**

Key to most successful rating companies is their ability to sell. This requires understanding a potential customer's goals and aligning your services to deliver value. As a group, participants will work together to define the benefits of 3rd party verification services from a builder's perspective and agree on a list of typical builder profiles. From there you will design ideal ways to communicate value to builders based on a variety of priorities. You'll leave with up to three value propositions for builders highlighting how your services create value for a client.

Suggested Presenter(s): Shaun Hassel, Advanced Energy & Dan Wildenhaus, CLEARResult

### **Be the first to happy hour: 10 Hacks to Streamline the Rating Process**

Remember when your job had a clear end to the day, as opposed to a series of never ending fires? When you used to make it to happy hour by 3:30? Luckily for you, we've reached out to leading raters from across the nation to document what they are doing to streamline the entire rating process from start to finish. Whether it is a hack to speed-up performance testing, a processes to simplify modeling, or creative communication methods with builders and trades, there are any number of ways that we can all do our jobs more efficiently without sacrificing quality. Attend this session to see and hear ten examples that raters are using to make their job easier and more enjoyable; apply them immediately to save yourself time, money and hassle!

Suggested Presenter(s): Shaun Hassel, Advanced Energy & Dan Wildenhaus, CLEARResult

### **ANSI/RESNET/ICC 301 and the New ASHRAE 90.2**

ASHRAE Standard 90.2 is undergoing a major revision to transform it into a performance-based standard, which uses ANSI/RESNET/ICC 301 as the base methodology. This presentation will discuss the new direction of Standard 90.2 to become a leadership standard that has performance at least 50% more efficient than the energy efficiency defined by the 2006 IECC. The addition of the new Standard 90.2 to the industry portfolio allows benefits of having a range of energy efficiency levels based on the same base ANSI/RESNET/ICC 301 criteria. This presentation will discuss how the new 90.2 standard references ANSI/RESNET/ICC 301 to

create an accurate, flexible performance-based tool that enable user creativity in meeting the performance objectives.

Suggested Presenter(s): Philip Fairey, Florida Solar Energy Center; David B. Goldstein, National Resources Defense Council & Theresa Weston, DuPont Protection Solutions

### **How RESNET Helps You Market HERS to Builders (and Others)**

Need help marketing HERS? Whether you're new to the industry or need a helpful refresher, plan to attend this session to learn what RESNET resources are available to help you market your rating services to builders, homeowners, and others. You can also offer suggestions on additional RESNET resources that would be helpful to have in the future.

Suggested Presenter(s): Valerie Briggs, RESNET

### **RESNET Provider Roundtable**

Got an issue and wonder how other providers have handled it in the past? Or maybe you have feedback you'd like to share with RESNET? Then join us for this interactive, constructive session designed to gain valuable ideas and net solutions to common issues. Come and share with colleagues, offer opinions, and engage in thoughtful discussions regarding topics relevant to the ratings industry.

Suggested Presenter(s): Valerie Briggs, RESNET

### **Time is Money: Valuing When Energy is Used**

Residential buildings use 40% of the electricity in the US, and often comprise over 50% of the utility peak demand. Utilities are increasingly adding variable renewable energy sources to their systems, both large supply-side systems and distributed systems like rooftop solar. While higher penetrations of renewable energy bring many benefits, their variability creates new challenges for electric utilities. Buildings can play a key role in facilitating variable generation when they are flexible. Increasingly, when buildings use energy is becoming more important than how much energy they use. To stay relevant, HERS will need to adapt to this new paradigm by *valuing when energy is used*, and accounting for the technologies that enable flexibility -- onsite generation, storage, and controls. Dave will lay out a vision for getting from where HERS is now to where it needs to be in the future.

Suggested Presenter(s): Dave Roberts, National Renewable Energy Laboratory

### **The Purpose of RESNET: Why it Matters to You and How to Get Involved**

This session will outline RESNET's Mission and Vision, why the type of non-profit matters, and dispel common myths about what the organization is and is not. Then we will explore the inner workings of the organization- how priorities are set, initiatives are driven, and standards

adopted. Finally, we discover the various ways to get involved- from the election of RESNET Board Members to SDC Working Groups and anything in between.

Suggested Presenter(s): Steve Baden, RESNET & Rick Dixon, RESNET

### **What if Uber or AirBnb Happened to the Home Building Industry?**

The combination of new and/or repurposed technology plus an innovative business plan has led to significant market disruption for a number of industries over the last few years. Did the Big Cable companies see the threat Netflix would pose to their happy existence? Could Blockbuster have anticipated RedBox in time to reinvent themselves and salvage their own future? One could argue that market disruption is like the Grim Reaper. It will come for everyone eventually. It's been a fact of life since before tire shops replaced the livery stable. Is there any reason to think the home building industry immune? This session will explore some of our favorite "innovative" technologies and business plans and imagine what could truly disrupt the home building market. Will the HERS Rater still have relevance in this imagined future? Come to this thought-provoking session and find out. (Warning: Audience Participation is advised)

Suggested Presenter(s): Colby Swanson, Momentum Innovation Group; Ari Rapport, IBACOS & Steve Byers, EnergyLogic

### **RESNET Communications Plan**

RESNET has taken a big step to having more effective communications with the hiring of Valerie Briggs as RESNET's Communications Director. A key first responsibility for Valerie is to develop a communications plan for the organization. The communications plan will be based on a series of online surveys to RESNETs' key stakeholders. This session will present what is planned for RESNET's communications plan and seek feedback.

Suggested Presenter(s): Valerie Briggs, RESNET

### **RESNET Emerging Leadership Council**

To remain sustainable the HERS Industry needs to cultivate leadership from the new generation. X generation and Millennials communicate in different form than Baby Boomers who gave birth for the industry. In order to remain relevant the industry must recruit, mentor and nurture the next generation of leaders.

To meet this need RESNET has formed the RESNET Emerging Leadership Council.

A special feature of the 2017 RESNET Building Performance Conference is the session "Cultivating a New Generation of Leadership in the HERS Industry". This session will be a forum led by and aimed at the next generation of leaders.

Topics of discussion will include:

- Why a RESNET Emerging Leadership Council?
- Discussion of possible activities of council
- Interactive and fun polling of participants throughout session
- How you can get involved and remain sustainable the HERS Industry needs to cultivate leadership from the new generation.

Suggested Presenter(s): Valerie Briggs, RESNET & Matt Gingrich, Energy Diagnostics

### **RESNET HERS Associate Certificate Program**

With the increase in the demand for HERS Ratings builders are increasingly requesting suppliers to relate what contribution the product would have on their homes' HERS Index score. Suppliers were seeking a way for their staff to be able to answer the question without the time and expense of their staff going through the full HERS Rater training. To meet this need RESNET has created a new designation the RESNET HERS Associate. This new RESNET certificate level designation is essential for anyone needing a working understanding of RESNET and HERS for uses other than conducting ratings.

The HERS Associate is targeted for supplier employees, but is also applicable to, architects, engineers, code officials, builders, trade sub-contractors, appraisers, or advocacy groups. With the increase in the demand for HERS Ratings builders are increasingly requesting suppliers to relate what contribution the product would have on their homes' HERS Index score. Suppliers were seeking a way for their staff to be able to answer the question without the time and expense of their staff going through the full HERS Rater training.

To meet this need RESNET has created a new designation the RESNET HERS Associate. This new RESNET certificate level designation is essential for anyone needing a working understanding of RESNET and HERS for uses other than conducting ratings.

The HERS Associate is targeted for supplier employees, but is also applicable to, architects, engineers, code officials, builders, trade sub-contractors, appraisers, or advocacy groups. This session will explain the benefits of the RESNET HERS Associate and how to become a training organization.

Suggested Presenter(s): Kathy Spigarelli, RESNET

### **RESNET Multifamily Standard**

At the 2017 RESNET Better Buildings Conference, it was announced that Law and order was coming to the Wild West of multifamily ratings! Since then, the existing Multifamily guidelines have slowly been churning through the ANSI standard development process. Come hear the latest developments on this important new standard presented by members of RESNET's Multifamily Subcommittee, who have built upon the existing Multifamily Guidelines in support of developing a Standard dedicated to Multifamily.



Suggested Presenter(s): Thiel Butner, Pando Alliance; Brian Christensen, NORESKO; Gayathri Vijayakumar, Steven Winter & Rebecca Hudson, EPA

### **Remote QA Pilot- Best Practices and Lessons Learned**

In 2017, the RESNET Board established a priority to support adoption of HERS ratings and the HERS Index in Rural America. One aspect of this issue is the high cost and relative difficulty of meeting RESNET Quality Assurance requirements in these hard to reach locations where rating volume is lower and travel distance for the QAD is exponentially higher. Remote QA represents a possible solution to this problem. But in order to earn acceptance, first a proven process must be demonstrated and proper guidelines/best practices established. East Kentucky Power Cooperative engaged in a pilot program with RESNET to test a Remote Pilot QA Checklist. This session will describe the challenges, successes, and lessons learned from that pilot effort.

Suggested Presenter(s): Josh Littrell, East Kentucky Power Cooperative

### **Insulation Expert Panel**

Having a panel of manufacturers speak on the do's and don'ts of proper insulation and how it will impact a home's rating. The same people who spoke on Compartmentalization and Air Sealing Party Walls last year would be good candidates for this. Having Jordan Doria on the panel may also be beneficial.

Suggested Presenter(s): Clint Shireman, Knauf; Ted Winslow, Certainteed; Tom Calzavara, Johns Manville; Craig Marden, Owens Corning

### **Multifamily Ratings - what is needed in HERS Rating Software?**

Multifamily buildings are the hot new trend in the US. Developers are building apartments to catch up on a lull of construction over previous years in a race to complete projects and capitalize on continuously rising rents. Investors are aggressively seeking opportunities to purchase multifamily properties, specifically core and value-add assets in top-tier markets. Given the rise in multifamily construction:

- What are the challenges facing providers and raters with modeling numerous units in multifamily buildings?
- How do these challenges affect raters and providers?
- Is existing HERS Rating software up to the task?
- What changes can be made in HERS Rating software to improve the efficiency with rating multifamily units?

This session will explore concepts to improve HERS Rating software efficiency for rating multifamily buildings/units. There will be a discussion at the end of the session to address these concepts as well as thoughts from the audience.

Suggested Presenter(s): Robert Salcido, Salcido Solutions

### **The Future of Standard 301 - The First Major Update - 2019 Edition**

RESNET's first American National Standard, Standard ANSI/RESNET/ICC 301-2014, is scheduled for its first 5 year Update in 2019. Standard 301 was first based on RESNET's HERS rating standards and was derived mostly from Chapter 3 of the Mortgage Industry National Home Energy Rating Standards. Since its first adoption Standard 301 has undergone significant changes via the addition of a number of addenda. Those addenda and interpretations that have been issued since 2014 will be integrated into Standard 301-2019 and a number of additional significant enhancements are also being developed. Work began in the second half of 2017 and will continue through 2018 with January 2019 as the target for completion. The plan, schedule and highlights of major changes for the 2019 Update will be presented during this Conference session.

Suggested Presenter(s): Brett Dillon, RESNET SDC 300 Chair; Philip Fairey, RESNET SMB Chair; Rick Dixon, RESNET Standards Manager

### **What do to When a Builder Challenges the Results of your HERS Rating?**

Join this discussion to hear experiences from raters and rating providers when homebuilders challenge the results of the HERS Ratings and how both parties come to a resolution.

Suggested Presenter(s): Chris MCTaggart, The BER & Rater Panel (TBD)

### **How to Properly Implement the RESNET Sampling Protocol**

New to sampling? Just want to be sure you are properly implementing the sampling protocols? Come to this session to learn how to implement RESNET's Sampling protocol!

Suggested Presenter(s): Scott Doyle, RESNET & Gayathri Vijayakumar, Steven Winter

### **So, What Does Grade I Insulation Really Look Like?**

This session will provide insight into exactly what Grade I insulation really looks like as well as include an update to the revisions to RESNET Standard Appendix A on Insulation Installation.

Suggested Presenter(s): Dan Wildenhaus, CLEAResult & Charlie Haack, NAIMA

### **The Genie is out of the Bottle! What we have Learned so far from QA Genie**

Join Scott Doyle and Laurel Elam with RESNET to discover the findings from the first year of analysis of QA Genie, RESNET's Rating evaluation tool.

Suggested Presenter(s): Scott Doyle, RESNET & Laurel Elam, RESNET

### **Interpretations, Amendments and Addendums Oh My!**

Rick Dixon, RESNET's Standards Manager, will provide an update on MINHERS and ANSI Standard amendments and review the process for submitting standard amendments and interpretations to the RESNET and ANSI Standards.

Suggested Presenter(s): Rick Dixon, RESNET

### **The roadmap for future RESNET ratings standards (to include the merging of Standards 301 and 305 and moving to the Continuous Maintenance MINHERS)**

RESNET has developed or is in the process of developing a suite of energy rating related standards that will cover the majority of residential dwelling units and homes. Standards ANSI/RESNET/ICC 301-2014 and ANSI/RESNET/ICC 380-2015 provide consensus standards for rating and the testing essential to rating homes and dwelling units in buildings containing multiple dwelling units. The RESNET Multi-Family Guidelines that are being converted into standards criteria following the ANSI requirements for American National Standards that will expand ratings to dwelling units in buildings greater than 3 stories above grade plane. These American National Standards are adopted and adapted for the technical components of the proprietary RESNET HERS. As the RESNET American National Standards and the RESNET HERS standards evolve the approach to their development and maintenance is evolving to be more user friendly and easier for RESNET to coordinate. This session will identify the plan for development and presentation of RESNET's energy rating system.

Suggested Presenter(s): Philip Fairey, RESNET SMB Chair Rick Dixon, RESNET

### **REDUCING SOFT COSTS TO MAKE SOLAR MORE AFFORDABLE TO THE AVERAGE HOMEOWNER.**

Recommendations will be presented for how the solar and construction industry can reduce indirect or "soft" costs in order to make solar more affordable to homeowners, especially homeowners wanting to add solar to existing homes.

Suggested Presenter(s): RESNET Staff

### **WHAT CAN WE DO TO IMPROVE OUTDOOR LIGHTING EFFICIENCY FOR HOMES AND CITIES?**

For Raters using HERS, this session will examine products and methods to increase outdoor lighting efficiency.

Suggested Presenter(s): RESNET Staff

## **HOW STATE AND NATIONAL POLICIES IMPACT AND INFLUENCE HOMEOWNERS AND OUR NATION IN THE ENERGY EFFICIENCY ENVIRONMENT; HOW CAN RESNET TAKE ADVANTAGE OF OR OFFSET THESE POLICIES?**

Tools to navigate policy changes and to keep raters ahead of changes in the HERS industry will be presented.

Suggested Presenter(s): RESNET Staff

## **RESNET ACCOMPLISHMENTS ON QUALITY ASSURANCE AND STANDARDS DEVELOPMENT.**

This session will present goals reached and improvements made on Quality Assurance and Standards Development, including software consistency.

Suggested Presenter(s): RESNET Staff

## **MAKING RESNET "HERS" LABELS THE MPG STICKER FOR EVERY HOME.**

This session will focus on how to make HERS the rating system standard used in both new and used homes.

Suggested Presenter(s): RESNET Staff

## **HOW TO COMPETE WITH "HERS" DURING THIS POLITICALLY UNCERTAIN TIME**

With the current, uncertain political environment, RESNET/HERS must compete effectively in the market. Tools Raters and Trainers can use will be presented while looking at opportunities and threats.

Suggested Presenter(s): RESNET Staff

## **PROMOTE OUR "BEST IDEAS" SESSION THEME AS "Reaching the Next 2 Million Homes" or "Going Beyond 2 Million Homes."**

Encourage participants at "Best Ideas" Session to make suggestions on how RESNET and HERS can continue or improve the momentum since RESNET reached the 2 millionth rating in 2017.

Suggested Presenter(s): Kathy Spigarelli, RESNET Staff

## **What are "Buried Ducts" and how do you model them?**

2018 IECC explicitly allows the use of buried ducts in standard vented attics. This practice offers the energy savings that can rival certain unvented attics designs but at a lower cost. Because of this, many builders are beginning to pilot this new approach. The code lays out

details both for proper design, specification and installation of buried duct systems as well as prescribing methods for accounting for them in energy models when using the performance path or ERI. In this session, we will provide attendees with an overview of the latest code change as well as a step-by-step walkthrough of how to model this approach using REM/Rate, EnergyGauge and Ekotrope. Attendees will leave knowing more about a significant new code change and how to help their builder customers incorporate it, and model it, in the homes they build.

Suggested Presenter(s): Charlie Haack, NAIMA

### **How Standards are evolving to better address Multifamily Ratings**

Updated and revised language for multifamily ratings and testing has been presented for public comment, and court is in session! Come to hear the latest and ask questions. Session is presented by members of RESNET's Multifamily Subcommittee, who used the existing *Guidelines for Multifamily Ratings* as a springboard to develop a draft of a new Standard (ANSI 305) that better addresses Sampling, inspections, and the calculation of an Energy Rating Index for units in multifamily buildings. The Subcommittee has also proposed an Amendment to ANSI 380 to provide specific testing guidance for multifamily. In addition to providing an overview of the proposed Standard and Amendment that went out for public comment, we will be sure to discuss:

- 1) The many definitions of multifamily
- 2) How the Standards development process for multifamily ratings has evolved over the past year, and
- 3) The status of the public comment process, common comments received, and what happens next.

Suggested Presenter(s): Thiel Butner, Pando Alliance; Gayathri Vijayakumar, Steven Winter & Brian Christensen, NORESO

### **Don't be a tool, use the best tools!**

When achieving certification for green building and to ensure that the products and processes we use will deliver as promised, we often rely on third party rating systems, scoring tools, and supplemental certifications. But sometimes the landscape gets muddled and we need help deciding which tools best suit our needs and help us deliver at the best cost for our clients. For water efficiency, do you use the Water Efficiency Rating Score or the Water Efficiency Rating Index? For materials selection, stick with the Red List or utilize the new Google healthy products list? For energy efficiency, the HERS Index, the Home Energy Score, or the Energy Performance Score? These competing tools, scores and more will be looked at during this session with overarching guidance provided as to how to best incorporate this wide range of tools? Join Dan as we look at new tools on the market and ask ourselves if our existing tools are doing the job.

Suggested Presenter(s): Dan Wildenhaus, CLEAResult

### **RESNET Rating Provider Roundtable**

In this session, Rating Providers are encouraged to join in an interactive session during which this critical aspect of the RESNET HERS Rating industry will have the floor. While HERS Raters, Builders, the RESNET Board and its Sub-Committees are often the primary focus of the RESNET conference and its technical sessions; this open discussion will be moderated by PEG LLC Senior Vice President; Matthew Cooper in an effort to give Rating Providers of all types and sizes the chance to collaborate, strategize for improved market up-take and even help set the stage for the future of our industry. There will be several specific session segments that will provide delineation of primary subject matter followed by an open discussion period. Participants who wish to voice their thoughts in a specific discussion segment should look for a pre-conference online sign-up page to ensure they will have a designated seat.

#### **Format:**

Opening Statement and Welcome

#### **Segment One: Rating Providers Perspective on the State of the New Construction Market and the Effectiveness of RESNET/HERS Recognition & Market Penetration**

20 Minutes with Moderated Panel

Five Primary Reserved Seats

Open Floor Commentary

#### **Segment Two: Rating Providers Outlook on the RESNET Progression Towards Enhanced QA**

20 Minutes with Moderated Panel

Five Primary Reserved Seats

Open Floor Commentary

#### **Segment Three: Rating Providers Role in Advancing the Future of HERS Ratings and RESNET as an Industry Leader**

20 Minutes with Moderated Panel

Five Primary Reserved Seats

Open Floor Commentary

#### **Segment Four: The Role of RESNET HERS Raters and their Providers as recognized professionals for non-HERS programs. What are the implications for: Quality Assurance/Quality Control/Professional Liability/Code of Ethics**

20 Minutes with Moderated Panel

Five Primary Reserved Seats

Open Floor Commentary

#### **Segment Five: Open Floor Discussion**

20 Minutes of Open Floor Conversation

Suggested Presenter(s): JoAnn Spence, PEG & Matthew Cooper, PEG

### **The Truth Behind the Walls, Revisited**

The performance of your home is dependent on the three principles of energy movement, Conductive, Convective and Radiant energy. Unfortunately we cant see ir measure the energy without specialized tools like blower doors and thermal imaging cameras. This presentation will revisit a paper we wrote 12 years ago on our experience in a new home and how thermal imaging was a very effective tool in seeing where the thermal breaks in our home were.

Today we have now just completed our brand new home build so we decided to revisit this dozen year old paper to talk about the differences between them and now (or is there)?

Suggested Presenter(s): Peter Hopkins, United Infrared

### **See the invisible with a Thermal Buddy for your Smart Phone**

A tool we all likely carry (smart phone) can now help you have vision like superman with a simple attachment. This presentation will demonstrate the latest in smart phone infrared technology available on the market today and how some simple apps available will help you see the unseen when it comes to heat loss in a building.

Suggested Presenter(s): Peter Hopkins, United Infrared