



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

### **Advanced Building Science**

#### **Moisture Management and Indoor Air Quality in Energy Efficient Homes**

We know we need tight, well-insulated buildings to provide thermal comfort with low energy consumption. But based on the experience of the last few years, what sort of problems occur with moisture management and indoor air quality, and how can these be avoided through design, construction and operation? Terry Brennan will recap what we know are moisture and humidity-related problems, and how they can be avoided. Aaron Johnson will focus on other key aspects of indoor air quality of emerging concern, including limiting airborne PM 2.5. He will describe how the EPA's Indoor Air Plus program addresses these issues, what the program experience has been to date, and where the program is headed next, to help energy-efficient builders achieve the air quality that consumers assume happens automatically in energy-efficient houses.

Suggested Presenter(s): Terry Brennan, Camroden Associates, Inc. & Aaron Johnson, US EPA

### **Energy Policy & Programs**

#### **Streamlining Program Administration, Participation, and Data Sharing with AXIS**

Pivotal's AXIS product is a cloud-hosted platform solution specifically designed for the collection, storage, and sharing of energy rating and certification 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 homebuilders to centralize energy rating and program-specific data. The AXIS platform also provides general workflow and data management solutions and can be used for QA, incentive payment processing, task management,

and a variety of other functions. AXIS streamlines program administration and participation and benefits program sponsors, utilities, homebuilders, HERS Raters, HERS Providers, HVAC organizations, QA agents, program evaluators, appraisers, real estate agents, and more! While providing a basic overview of the AXIS platform, this session will also focus on integrations between AXIS and other technology solutions serving the energy efficiency and real estate markets including EnergyPlus, Ekotrope, and RaterPRO and will feature a demonstration of auto-population of energy program certification data into the MLS and G&EEA auto population.

Suggested Presenter(s): Robert Burns, Pivotal Energy Solutions; Clinton Heyn, Pivotal Energy Solutions & Steven Klass, Pivotal Energy Solutions

## **Home Energy Ratings**

### **HERS Associate - for Non-HERS Raters to learn about the HERS Industry**

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. The RESNET HERS Associate designation trains professionals to answer that question without the time and expense of going through the full HERS Rater training. This new RESNET certificate level designation is essential for anyone needing a working understanding of RESNET and HERS for uses other than conducting ratings. This is a paid course with pre-registration link to be provided if elected Presenter has other obligations on Sunday, so this would need to be on Saturday if elected.

Suggested Presenter(s): Robby Schwarz, EnergyLogic

### **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 takeoff 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 manual input into any energy modeling software (including REM/Rate™, Ekotrope, and Energy Gauge.) Using SketchUp by itself will improve your speed and accuracy in performing takeoffs, but with EnergyLogic's

custom reporting script, 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.

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

### **Ekotrope RATER - Orientation, Training, and Product Feedback Session**

All types of attendees are welcome, whether just hearing about Ekotrope or already ramped up and using the tool. The first part of this session will feature a demo and product walkthrough, highlighting both basic functionality and advanced features. The session will then move to question and answer format to answer users' questions about the product, and finally, end with an interactive discussion about users' needs and potential product improvements.

Suggested Presenter(s): Cy Kilbourn, Ekotrope & Ziv Rozenblum, Ekotrope

## **Opportunities for HERS Raters with the International Energy Conservation Code**

### **ICC Certification Exam**

ICC can also provide a prep course for the exam. The options are to one long day—Saturday, 4 hours of training in the morning and 3 hours of testing in the afternoon. Or 6 hour training on Saturday and Test on Sunday. Paper and pencil open book exam. Would be Feb 24 & 25 Saturday and Sunday.

## **Water Efficiency Rating Index**

### **WaterSense Homes Specification Revision Session**

The EPA WaterSense Homes program was designed to give the building and building science communities the tools and resources needed to build more water efficient homes. With codes becoming more stringent, watering restriction increasing, and the ever-present threat of drought hanging over critical building market; the need for water efficiency has never been greater. To continue to respond to the needs of the industry, EPA is currently developing it's WaterSense Homes Specification 2.0. Version 1.0 was first published in 2009, with version 1.1 published in 2012 and version 1.2 in 2014 making it the latest version. As the program continues to grow, it aims at keeping up with technological advances as well as new market trends, such as the use of Water Efficiency Rating Index (WERI), and thus the necessity for EPA's WaterSense Homes

Specification 2.0. This interactive and wide-ranging workshop, aims to engage the RESNET community as we provide an insider's look at the WaterSense Homes' Specification revision progress and facilitate feedback and input from participants. Discussions will focus on topics ranging from program implementation, construction and building science matters and inspection and certification processes. Participation in this workshop ensures that the revision process is inclusive of our stakeholders as we work towards delivering appropriate tools to continue saving water and energy in our homes.

Suggested Presenter(s): Jonah Schein, EPA & Olga Cano, EPA