



## On a Path to Zero Energy Construction: Passive House & Building Workshop

Thursday, June 15, 2017 10:00 am-5:00 pm

### Agenda

- 9:30am Check-In
- 10:15 am Welcome and Introduction  
Joan Kelsch, Arlington County Initiative to Rethink Energy  
Helen Reinecke-Wilt, Arlington County Initiative to Rethink Energy (AIRE)  
and Green Home Choice  
Ellen Vaughan, Environmental and Energy Study Institute (EESI)
- 10:45 am Introduction to Passive Building Principles, Standards & Certification  
Katrin Klingenberg, PHIUS
- Introduction to passive design principles
  - PHIUS+ 2015: Climate Specific Passive Building Standards and Certification
  - North American Passive Building Trends
  - U.S. Department of Energy (DOE) Zero Energy Ready Home (ZERH) program and how it relates to Passive House
  - Questions and Answers
- 11:45 am [Break and Pick Up Lunch](#)
- 12:15 pm Heating, Cooling, and Ventilation Strategies in Passive House Design  
John Semmelhack, Think Little
- Low load HVAC design basics and special concerns in mixed humid climates
  - Questions and Answers
- 1:45 pm [Break](#)

2:00 pm Local Mixed-Humid Climate Case Studies- Lessons Learned from a Builder, Architect, and Energy Rater

- New Single-Family Home Case Study – Builder Perspective: Patty Shields, Metro Green Construction
- New Single-Family Home Case Study – Architect Perspective: David Peabody, Peabody Architects
- Ivy City Habitat for Humanity Affordable Townhouse Project – PHIUS+ Rater Perspective: **Chris Conway**, Conway Energy
- Questions and Answers

3:45pm **Break**

4:00 pm Local Multifamily Case Studies

- Weinberg Commons Multifamily Affordable Retrofit project and new construction project in Chambersburg, PA – Matt Fine, Peabody Architects
- Questions and Answers

4:45 pm Closing Comments and Wrap Up

5:00 pm Adjourn

Please see the bottom of your survey for CPHC and AIA credit information.

Thanks to our Speakers!



## Today's Speakers

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A little bit about our speakers...

**Katrin Klingenberg** is the Executive Director and one of the co-founders of Passive House Institute US (PHIUS). PHIUS+ has certified and pre-certified projects totaling more than 1.1 million square feet across 1,200 units nationwide.

**John Semmelhack** is the owner of Think Little, a Charlottesville based building science consulting firm that focuses primarily on residential projects. John is a HERS Rater, Earthcraft House Technical Advisor, Certified Passive House Consultant, member of the Passive House Institute U.S. Technical Committee, and a Trainer for the PHIUS Certified Passive House Consultant (CPHC®) and PHIUS+ Rater training programs. John sits on the boards of the Passive House Alliance U.S. (PHAUS) and the Passive House Alliance U.S. Capital Chapter.

**Patty Shields** is the owner of Metro Green, LLC, a high performance home remodeling and new construction company. Patty is a LEED AP®. She constructed the first LEED Platinum certified home in Virginia and the first PHIUS certified home in Arlington along with many homes within the Arlington County Green Home Choice program. Patty is also on the Virginia Board of Housing and Community Development and is an attorney.

**Chris Conway** is the owner of Conway Energy, a full service **building science** consulting firm dedicated to high performance **multi-family** and **single family** construction. He is a HERS Rater, PHIUS CPHC® and PHIUS + Rater. Chris is also an Earthcraft House Technical Advisor and he has managed the Earthcraft House certification of over 5,000 multi-family apartment units in the DC Metro area.

**David Peabody** is the Principal of Peabody Architects. He has committed his practice to sustainable design for the past 17 years and was one of the first five architects in the country to achieve the PHIUS certification. Since then he has committed his practice largely to single-family residential Passive House projects. David is also LEED AP.

**Matt Fine** with Peabody Architects specializes in high performance and near-to-zero energy housing design. Matt was the lead designer and project manager for the PHIUS+ Certified Weinberg Commons, an affordable multi-family project in D.C., and Habitat for Humanity's D.C. Ivy City Passive House townhouse project. Matt is a PHIUS CPHC® and LEED AP.