Building America

High Performance Enclosure Strategies: Part I, Existing Homes

May 21, 2014

Moderator:
Mike Gestwick- National Renewable Energy Laboratory

Panelists:
Tom Schirber – University of Minnesota
Steve Schirber – Cocoon Insulation
Anastasia Herk – IBACOS
Duncan Prahl – IBACOS
Some Housekeeping Items

Two Options for Audio (select audio mode):

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Some Housekeeping Items (cont’d)

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  http://energy.gov/eere/buildings/building-america-meetings#current
Agenda

✓ Welcome and Introductory Remarks
✓ Overview of Building America (buildingamerica.gov)
  ➢ Mike Gestwick: National Renewable Energy Laboratory
✓ Presentations
  ➢ Tom Schirber: University of Minnesota
  ➢ Steve Schirber: Cocoon Insulation
  ➢ Anastasia Herk: IBACOS
✓ Questions and Answers
  ➢ Duncan Prahl: IBACOS
✓ Closing Remarks
✓ Survey
Overview of Building America
Who Are We?
What do we do?

Solution Center

Building Energy Optimization (BEopt)

Market Partnerships

www.buildingamerica.gov
### What are we researching?

|---------------------|--------------|-------------|------------------|-----------|----------------|----------|-------------------|------------------|-----------|----------------------------|--------------------------|

**Zero Energy Ready Home**
What are we achieving?

Ultra-High Efficiency: Enclosure, Low-Load HVAC, Components

High-Performance: Affordable, Comfort, Health, Durability, Renewable Readiness, Water Conservation, Disaster Resistance
What are we achieving?

Building America Top Innovations

1. Advanced Technologies & Practices
2. House-as-a-System Business Case
3. Effective Guidance and Tools
4. Infrastructure Development

- New Homes
- Whole-House Program Support
- Educating
- Informing Code/Standards Process
Where can I find resources?

**Building America Solution Center:**
Proven Innovations from World-Class Research
... at Your Finger Tips

https://basc.pnnl.gov/
Building America Webinar Series

Topic 2: High Performance Enclosure Strategies: Part I, Existing Homes
Tom Schirber came to Minnesota in 1996 to work at the Wilder Foundation as project manager for the Home Ownership Development Collaboration. He assisted Twin Cities Habitat for Humanity and Community Development Corporations in the core neighborhoods with capacity building and production improvement in St. Paul. Prior to coming to the Twin Cities, Tom worked for a non-profit in North Dakota that built and operated a homeless shelter and other low income housing. Tom is a fellow at the University of Minnesota, Cold Climate Housing Program where he assists with affordable housing technology research that will improve indoor air quality, energy efficiency and durability for low income families. Tom’s work includes residential technology and high performing homes. He also works with the affordable housing community to advance best practice within a building science approach.
Steve Schirber, General Manager and Principal, Cocoon Insulation

Steve Schirber is the General Manager and Principal at Cocoon, an insulation, radon mitigation and diagnostic testing contractor. His expertise comes from over 20 years of service in the construction industry specializing in insulation, building systems and performance. Steve has a BCE in Structural Engineering from the University of MN and is an NRPP Radon measurement specialist/mitigation provider, BPI certified envelope specialist and Building Analyst.
Anastasia Herk, Building Performance Specialist, IBACOS

Anastasia Herk is a Building Performance Specialist at IBACOS working on project management and cat herding for the NYSERDA deep energy retrofit project. She has a Master’s degree in Architecture from Kent State University, is a LEED AP and has experience in commercial design. She serves IBACOS as a bridge between the world of architecture and the world of residential construction.
Duncan Prahl, Senior Research Architect, IBACOS

Duncan Prahl has over 11 years of experience at IBACOS assisting builders and developers with implementing high performance housing using Building America research results. His research focuses on process-related barriers in most builders’ organizations with the goal of creating new process models for builders. He is a registered architect in New York.
Time for Q&A

**Excavationless Exterior Foundation Insulation Field Study**
Tom Schirber
schir056@umn.edu

**Project Overcoat**
Steve Schirber
steve@cocoon-insulation.com

**Strategies for Exterior Insulation**
Anastasia Herk
aherk@ibacos.com
Survey

- How did we do?
- Your feedback is important!
Who’s Successfully Doing Deep Energy Retrofits (DER)?

The webinar will focus on specific Building America projects and case studies that highlight real-world examples of deep energy retrofits that are meeting with technical and market success. Webinar presenters will focus on technical strategies, modeled and actual performance results, and project costs.
Thank You!

PDF copies of the presentations in this Webinar will be available following the webinar

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