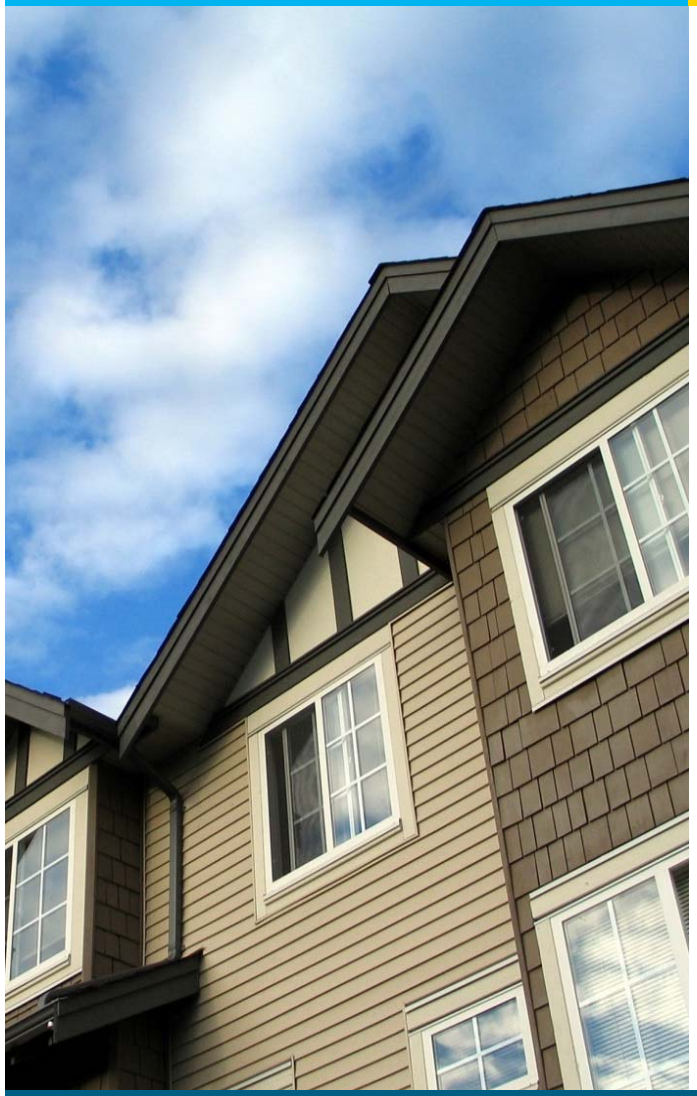
U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

Building America U.S. Department of Energy



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

Some Housekeeping Items

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- **A video/audio recording of this Webinar and the slide decks will be made available after the webinar at**: 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
- ✓Closing Remarks
- ✓Survey

Overview of Building America

Who Are We?

Home Innovation RESEARCH LABS

NREL NATIONAL RENEWABLE ENERGY LABORATORY

BERKELEY LAB Lawrence Berkeley National Laboratory

NorthernSTAR

Alliance for Residential Building Innovation

OAK RIDGE National Laboratory

CARB CONSORTIUM FOR ADVANCED RESIDENTIAL BUILDINGS

Research Alliance

bsc Building Science Corporation

Pacific Northwest NATIONAL LABORATORY

BA-PIRC

ARIES Collaborative

IBACOS | Home Quality + Performance |

PARR The Partnership for Advanced Residential Retrofit

What do we do?

BUILDING AMERICA
TOP INNOVATIONS

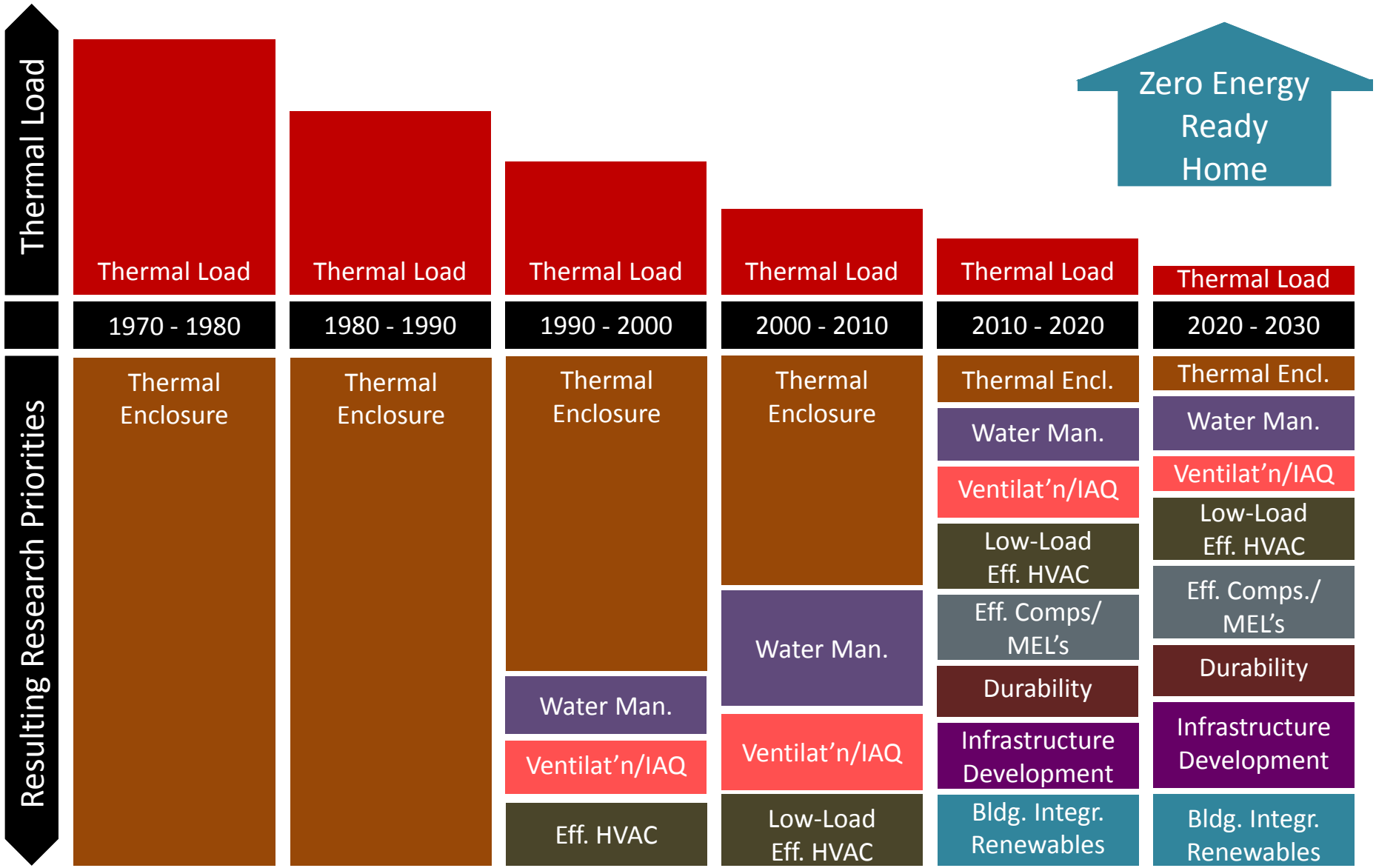
Recognizing Top Innovations in Building Science

Solution Center

Building Energy Optimization (BEopt)

Market Partnerships

What are we researching?



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

New Homes

Whole-House Program Support

3. Effective Guidance and Tools

4. Infrastructure Development

Educating

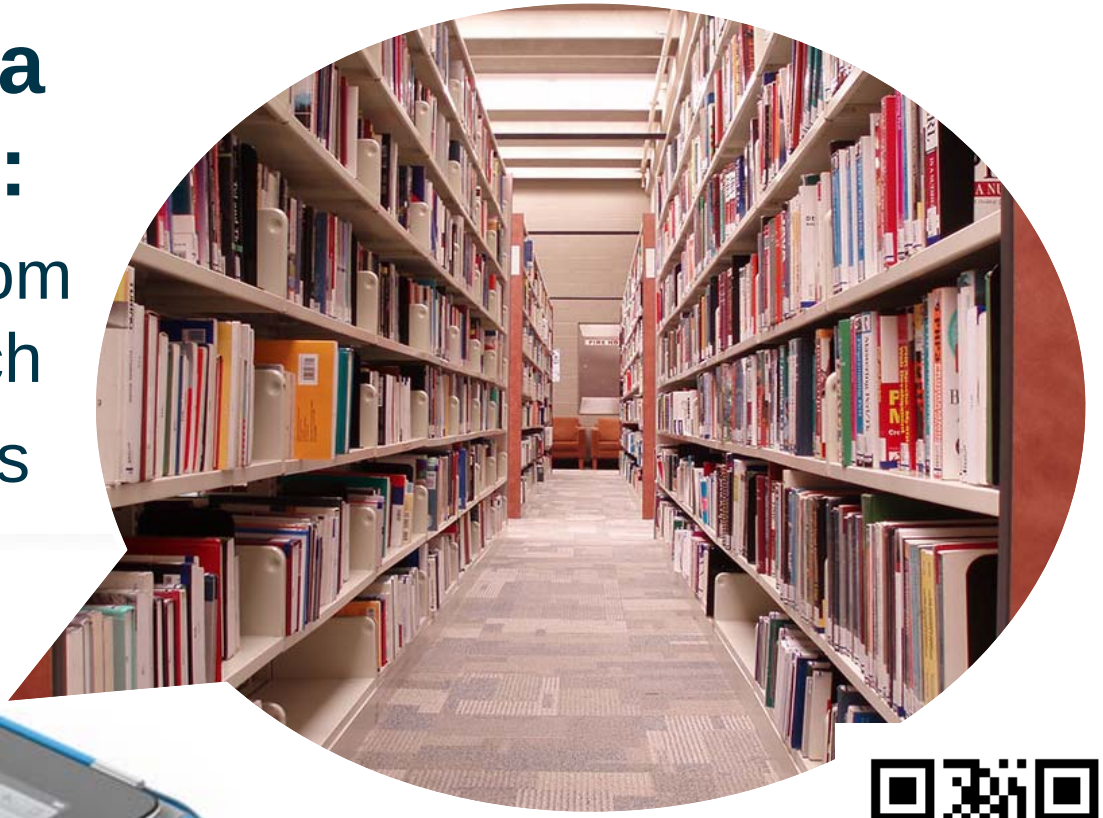
Informing Code/Standards Process

Where can I find resources?

Building America Solution Center:

Proven Innovations from World-Class Research

… at Your Finger Tips



https://basc.pnnl.gov/

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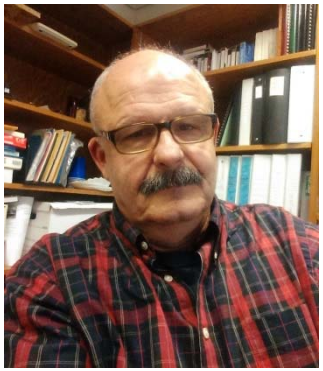
Building America Webinar Series

Topic 2: High Performance Enclosure Strategies: Part I, Existing Homes

Tom Schirber, Fellow, University of Minnesota



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.

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!

Up Next… June 25th, 2014 3pm ET

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

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