

ACI Northwest Conference 2009

Where Performance Hits Home

Explore the building science behind high performance, energy-efficient homes where comfort and sustainability come together at this conference for the Pacific Northwest.



H O U S E A S A S Y S T E M

ELECTRONIC BROCHURE

Live links appear throughout this publication that will direct you to the ACI website.
View this PDF on a computer that is connected to the internet.

February 3 - 5
Portland, Oregon
Doubletree Hotel Portland

www.affordablecomfort.org



Advancing Home Performance

The ACI Northwest Conference 2009 is brought to you in cooperation with

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| Earth Advantage | National Association of the Remodeling Industry | |
| GreenBuildingAdvisor.com | National Affordable Housing Network (NAHN) | |

Opening Plenary Address
Wednesday, February 4, 8:30 AM



Deep Energy Reductions:
Beyond Business as Usual

Linda Wigington
Special Projects Director, ACI
Waynesburg, Pennsylvania

Perceptions about the cost, availability, and environmental impact of energy are changing rapidly. In addition to broadening energy efficiency efforts, there is a critical need to achieve significantly deeper levels of energy reduction.

Re-examine assumptions about what is possible and practical in both existing and new homes, and explore the implications of how deep energy reductions can affect the work you do.

Closing Plenary Address
Thursday, February 5, 3:00 PM



Where Performance Hits Home

John Tooley
Advanced Energy
Raleigh, North Carolina

There are four major market drivers: 1) decreasing electric capacity, 2) the state of the economy, 3) the need for job creation, and 4) the challenge of climate change. Increasing the energy efficiency of new and existing homes responds to all of these. We must rise to the challenge with an unyielding demand for performance. We must speak with one voice, "Do it right the first time." Quality must become our relentless cry.

ACI (Affordable Comfort, Inc.) is a non-profit educational organization that produces unbiased, cutting-edge conferences focused on promoting home performance, green building, and "house-as-a-system" skills for all building trades, housing groups, and program professionals.

Where Performance Hits Home

Attend ACI Northwest 2009

Explore the building science behind high performance, energy-efficient homes where comfort and sustainability come together. Attend this two-day educational conference specially designed for the Pacific Northwest region. Learn from respected presenters and leaders who specialize in the whole house approach. Discover new ways to grow your business and meet the needs of homeowners in our energy challenged world.

Who Should Attend?

Builders, remodelers, weatherization providers, HVAC contractors and installers, insulation and air sealing contractors, code officials, utility representatives, home performance contractors, home inspectors, energy raters, building scientists, and other housing professionals concerned with health, comfort, safety, and energy-efficiency in homes.

Full Conference Registration of \$325 / \$365 includes:

- Opening and closing plenary addresses
- Tuesday evening special sessions
- Breakfast buffet Wednesday and Thursday
- Lunch Wednesday and Thursday
- Exhibits Wednesday and Thursday
- Exhibitor reception Wednesday evening
- Thirty-six sessions to choose from
- Resource materials

Early Bird Registration Discount

Register before January 19, 2009, and save \$40 off the full rate.

Can't spare two days? Come for one for \$260.

Hotel Reservations

Room blocks fill up quickly. Make your reservations now at 503-281-6111.

Doubletree Hotel Portland
1000 NE Multnomah Street
Portland, OR 97232

Standard rate - \$114.00 plus tax

Premium rate - \$124.00 plus tax

Applicable tax is now 12.5%.

Mention "ACI Northwest" when making your reservations to receive the discounted rates.

Hotel rates expire Monday, January 12, 2009.

Hotel will provide driving directions - call 503-281-6111. Overnight parking with in-and-out privileges is complimentary. Day parking is \$5.00 per day.

Make Your Hotel Reservation Online



Continuing Education Units

Earn continuing education units from these providers at this conference:



See what CEUs will be available.

BPI Written Certification Exams Wednesday, February 4, 6:00 PM

100 Question Exam \$200

50 Question Exam \$150

BPI will offer its written certification examinations for Building Analyst, Envelope, and Heating at the ACI Northwest Conference. Field exams will not be offered. You must pre-register by Friday, January 23.

For additional information and an application to register, please email randerson@bpi.org or call (877) 274-1274 x 108.

For complete information, including session descriptions, presenter biographies, and more, visit www.affordablecomfort.org.

Preconference Sessions – TUESDAY - FEBRUARY 3, 2009

Space is limited. Advanced registration required.
Costs are separate from core conference fee. [Register online for these preconference sessions.](#)

Full Day Session (TFD)
8:00 AM – 5:00 PM

Tuesday Afternoon Session (TPM)
12:30 PM - 5:00 PM

Read Presenter Biographies

**Devil in the Details:
Building High Performance,
Affordable, & Durable Walls**
(Full day lab session - \$195)

The construction of high performance wall assemblies is now within reach of all builders and remodelers. This hands-on workshop will remove the mystery of building high performance walls by demonstrating two of the most common and successful wall assemblies - continuous exterior insulation and staggered stud framing. Learn principles that may be applied to existing homes or new construction including wall design, product selection, staging, construction, and pricing.

Terry Brennan, Marquam George, +

**Getting the Most From Your
Duct Blaster®**

(Half day in-field - \$95)

Many people can use the Duct Blaster to measure duct leakage. Fewer people use the Duct Blaster to measure air handler flow and as a powered flow hood to measure individual register flows. This session is hands-on training for individuals wanting to maximize their investment in their Duct Blaster.

Attendees will gain hands-on training for the following tests using the Duct Blaster: duct leakage to the outside, air handler airflow, register flow using the Duct Blaster as a powered flow hood.

Bob Davis, Bruce Manclark

For complete information, including session descriptions, presenter biographies, and more, visit www.affordablecomfort.org.



Two-Day Trade Show

In order to generate demand, continue current customer relationships, and convert prospects, you need effective solutions for tough challenges. Find these solutions and more at the 2009 ACI Northwest Conference trade show. For two days, attendees have access to the region's leading manufacturers showcasing cutting edge products and technology. Meet face-to-face with companies who provide the tools you need to work smarter. For exhibitor information, contact mforbes@affordablecomfort.org.

Visit our Exhibitor Page Online

We're on the Web

Get in-depth information on what this event offers you when you visit www.affordablecomfort.org.

- Session descriptions
- Presenter affiliations and biographies
- Keywords
- Sponsor links
- Exhibitor information
- Presentations from other recent ACI conferences
- Easy online registration

EVENING SESSIONS (Select one):

TUES EVE
7:00 PM - 8:30 PM

Read Tuesday Evening Session Descriptions

TEVE 1
**Accelerating Efficiency in the
Northwest: Past Lessons &
New Directions**

Tom Eckman, Jane Peters

TEVE 2
**Sell Solutions,
Don't Buy
Problems**

John Tooley

WEDNESDAY - FEBRUARY 4, 2009

For complete information, including session descriptions, presenter biographies, and more, visit www.affordablecomfort.org.

Read Session Descriptions

Read Presenter Biographies


	7:00 AM	8:30 AM - 10:00 AM	10:20 AM - 11:50 AM	12:00 PM - 1:20 PM	1:30 PM - 3:00 PM	3:30 PM - 5:00 PM	5:00 PM - 7:00 PM	6:00 PM	7:00 PM - 8:30 PM
			Session # 1 10:20 AM - 11:50 AM		Session # 2 1:30 PM - 3:00 PM	Session # 3 3:30 PM - 5:00 PM			WED EVE 7:00 PM - 8:30 PM (Select one)
FUNDAMENTALS (FUND)	Registration, Breakfast, & Exhibits	OPENING PLENARY: Welcome - Michael Grainey, Oregon Department of Energy Keynote: Deep Energy Reductions: Beyond Business as Usual - Linda Wigginton, ACI	Moisture & Mold in Homes: Facts Vs. Fiction <i>George Tsongas</i>	Lunch	Conveying Energy Concepts: Energy Use, Cost, & Carbon Impacts <i>Mike O'Brien</i>	What Works & Why: Real World Results <i>Michael Blasnik</i> <i>Shaun Hassel</i>	Reception & Exhibits	BPI Written Certification Exams (pre-registration required)	WEVE 1 Stand Out From Your Competition: Incorporating Energy Efficiency & Green into Remodeling Jobs <i>Mike Rogers</i> +
DEVIL IN THE DETAILS (DEVL)			Advanced Building Techniques: What Matters & How To Get it Done? <i>TBD</i>		Air Sealing: Priorities, Techniques, & Products <i>Chris Clay</i>	Duct Leakage Tests: What Don't They Mean? <i>Bob Davis</i> <i>Bruce Manclark</i>			
DURABILITY & HEALTH (DUR)			Combustion Safety & Energy Efficiency: Good News – Bad News <i>Chris Clay</i>		Crawl Space Research Results from the Pacific Northwest <i>David Hales</i> <i>Paul Reavley</i>	Mechanical Ventilation Systems: Effectiveness & Operating Costs <i>Terry Brennan</i> +			WEVE 2 How Good is Good Enough? - Rethinking Walls: Options for Superinsulation in New & Existing Homes <i>Terry Brennan</i> <i>Marquam George</i>
NEW & EMERGING OPPORTUNITIES (OPP)			Carbon Credits, Green Tags, & White Tags <i>Sean Penrith</i> Discussants: <i>Tom Eckman</i> +		Deduct Your House: The Benefits of Ductless Heat Pumps <i>Bruce Manclark</i>	New Opportunities: Electronics & Heat Pump Water Heaters <i>(Pat Keegan)</i> <i>Tom Eckman</i> <i>Geoff Wickes</i>			
DEEP ENERGY REDUCTIONS (DEEP)			The Low Load Challenge: Mechanical Systems for High Performance Homes & Apartments <i>Jon Heller</i>		Affordable & High Performance: New Construction & Rehab Case Studies <i>Marquam George</i> <i>Barbara Miller</i>	Gut Rehab Deep Energy Retrofits: A Case of Reality <i>Dan Cote</i>			WEVE 3 Roundtable: Ramping Up: Juggling Productivity, Quality, & Sanity
POLICY & PROGRAM ISSUES (P&P)			Integration of Water, Energy, Comfort, & Economic Considerations in Program Design <i>Lynn Benningfield</i> <i>Gary Klein</i> <i>Nehemiah Stone</i>		Energy Performance Scoring for Existing Homes & Households <i>Michael Blasnik</i> <i>Eric Storm</i>	Getting the Economic Signals Right for Efficient Affordable Housing <i>Nehemiah Stone</i> <i>Julieann Summerford</i>			

THURSDAY - FEBRUARY 5, 2009

For complete information, including session descriptions, presenter biographies, and more, visit www.affordablecomfort.org.

Read Session Descriptions

Read Presenter Biographies

	7:00 AM	8:30 AM - 10:00 AM	10:20 AM - 11:50 AM	12:00 PM - 1:15 PM	1:20 PM - 2:50 PM	3:00 PM - 4:00 PM
FUNDAMENTALS (FUND)		The House as a System <i>John Tooley</i>	Capturing Electric Baseload Savings <i>Rana Belshe</i>		Fostering Behavior Change: From Energy Tips to Sustainability <i>Rana Belshe</i>	CLOSING PLENARY: Where Performance Hits Home <i>John Tooley</i>
DEVIL IN THE DETAILS (DEVL)		Achieving Correct Airflow, the Missing Comfort Link <i>Mark Jerome Bruce Manclark</i>	Bringing the Ducts Inside <i>Dave Hales Tien Peng +</i>		Best Practices: Insulating Closed Cavity Walls <i>Thomas Brodbeck</i>	
DURABILITY & HEALTH (DUR)	Breakfast & Exhibits	Walls & Water: Consensus & Controversies <i>George Tsongas</i>	Solving IAQ & Moisture Problems in Multifamily Buildings <i>Dan Auer Terry Brennan Discussant: George Tsongas</i>	Lunch & Exhibits	Fixing Wet Crawlspace <i>Doug Ness</i>	
NEW & EMERGING OPPORTUNITIES (OPP)		Increasing Resource Efficiency: The Water Energy Climate Connection <i>Gary Klein Nehemiah Stone</i>	Feedback Devices: Pilot Results & Emerging Systems <i>Kate Scott +</i>		Lighting: Still a Cost-Effective Resource for All <i>Cheryl Fretz Sarah Moore</i>	
DEEP ENERGY REDUCTIONS (DEEP)		Positive Net Energy Homes: The Passive House Concept <i>Katrin Klingenberg</i>	Access to Resources for Green & Deep: Accelerating the Learning Curve <i>Alistair Jackson Katrin Klingenberg Linda Wigington Peter Yost</i>		Different Paths to Low Energy New Homes: Case Studies <i>Dylan Lamar Ted Nickell</i>	
POLICY & PROGRAM ISSUES (P&P)		Measuring Marketing Campaign Effectiveness <i>TBD</i>	Cost Effectiveness: Consumer, Contractor, & Utility Perspectives <i>David Baylon Jennifer Williamson</i>		Impact of Codes: Energy Performance, Programs, & Policy <i>David Cohan (Session Leader) Tom Eckman Jeff Harris Brady Peeks</i>	

Registration Form

Print this page and fax it to (724) 627-5226 or [Click Here to register for the conference online](#)
(Please print clearly. Please use one form per person.)

ACI NORTHWEST 2009

Where Performance Hits Home
Wednesday & Thursday, February 3 - 5, 2009
Portland, Oregon

Please select all that apply Attendee Presenter Exhibitor Sponsor

First Name _____ Last Name _____

Organization _____ Title _____

Address _____

City _____ State _____ Zip _____

Phone _____ Fax _____ Email _____

Emergency Contact _____ Phone _____

Please select

Pre-conference session

- Tues 8-5, Devil in the Details: Building High Performance, Affordable, & Durable Walls \$ 195
 Tues 12:30-5, Getting the Most from Your Duct Blaster® \$ 95
 2 day (Feb 4 - 5) \$ 325 (discount before 1/19) \$ 365 (after 1/19)
 1 day Wednesday Thursday \$ 260
 Exhibitor with tabletop \$ 600
 Additional Exhibitor (max 1) \$ 260
 Sponsor / Partner Name _____

Code _____ Fee _____

Scholarship Name _____

Scholarship Code _____ Fee _____

TOTAL \$ _____

Payment or Purchase Order due with registration

Check payable to: Affordable Comfort, Inc. PO No. _____

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Card # _____ Exp Date _____

Name on Card _____

Cardholder Signature _____

Comments / Special Meals: Please let us know if you have any special dietary needs (i.e. vegetarian, vegan, etc.).

For registration assistance, please call 800-344-4866, x 10. You will receive a confirmation by email from ACI within a few days. If you do not receive this confirmation, please contact jpatton@affordablecomfort.org.

For exhibitor information, please call 800-344-4866, x 13, or email mforbes@affordablecomfort.org.

PRE REGISTRATION IS ENCOURAGED

Mail to: ACI, 32 Church St., Ste. 204, Waynesburg, PA 15370.

Fax to: 724-627-5226

Register online at: www.affordablecomfort.org
or **register at the door.**

Cancellation Policy: There is a non-refundable fee of \$100 for each registration cancelled. Requests must be made in writing and received by ACI by January 26, 2009. No refund will be granted after January 26.

For information:

(800) 344-4866, x 10
Fax: (724) 627-5226

www.affordablecomfort.org

Americans with Disability Act: Please let us know what reasonable accommodations you will need to facilitate your participation (i.e. special access, assistance, etc.).