



# NHPC'23

# SEATTLE

CONFERENCE PARTNER:



**JOIN US**  
April 17-20, 2023 in  
Seattle, Washington!

Our annual conference, now in its 37th year, brings together thousands of contractors, weatherization professionals, trainers, program administrators, energy auditors, and others working in residential energy efficiency for the latest industry education.

Walk away with the latest trends, newest techniques, key insights, and actionable items you can apply to your job right away. The National Conference is the premier industry experience for anyone in home and building performance—don't miss out on this exciting four-day event!

**100+ Educational Sessions & Workshops | Continuing Education Units (CEUs) | In-Person Trade Show**

## Educational Tracks



Affordable Housing & Multifamily



HVAC Strategies



Running Your Home Performance Business



Building Envelope



IAQ & Healthy Homes



The Smart Home



Diagnostics & Audits



Operating & Delivering Weatherization Programs



Workforce Development



Fundamentals



Workforce Development



Home Performance Policy



Program Operations & Updates

Sessions and workshops are added and updated regularly. Please check back for updates.

# Daily Schedule

## DAY ONE

Monday, April 17

7:00 a.m. - 6:30 p.m. **Registration Open**

7:00 a.m. - 4:30 p.m. **Trade Show**

7:00 - 8:30 a.m. **Breakfast**

8:30 a.m. - 12:00 p.m. **Morning Workshops**

12:00 - 1:30 p.m. **Lunch on Own**

1:30 - 5:00 p.m. **Afternoon Workshops**

5:00 - 6:30 p.m. **Welcome Reception Trade Show**

## DAY TWO

Tuesday, April 18

7:00 a.m. - 4:00 p.m. **Trade Show**

7:00 - 8:00 a.m. **Breakfast**

8:00 - 9:30 a.m. **Welcome & General Session**

10:00 - 11:00 a.m. **Breakout 1**

11:30 - 12:30 p.m. **Breakout 2**

12:30 p.m. - 2:00 p.m. **Lunch & Exhibits**

2:00 - 3:00 p.m. **Breakout 3**

3:30 - 4:30 p.m. **Breakout 4**

4:30 - 6:00 p.m. **Reception**

6:00 - 7:30 p.m. **Evening Session**

## DAY THREE

Wednesday, April 19

7:00 a.m. - 4:00 p.m. **Trade Show**

7:00 - 8:30 a.m. **Breakfast**

8:30 - 9:30 a.m. **Breakout 5**

10:00 - 11:00 a.m. **Breakout 6**

11:00 a.m. - 1:00 p.m. **Lunch & Exhibits**

1:00 - 2:00 p.m. **Breakout 7**

2:30 - 3:30 p.m. **Breakout 8**

4:00 - 5:00 p.m. **Breakout 9**

5:30 - 7:00 p.m. **Evening Session**

## DAY Four

Thursday, April 20

7:00 - 8:30 a.m. **Breakfast**

8:30 - 9:30 a.m. **Breakout 10**

9:45 - 10:45 a.m. **Breakout 11**

11:00 a.m. - 12:00 p.m. **Breakout 12**

# Monday Workshops

## 90-Minute Workshops

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### **37 Ways To Build A Roof Wrong—And How To Avoid Them**

Douglas Horgan

### **An Integrated Assessment Protocol for Multi-family Housing**

Kevin Kennedy, Max Wilkinson

### **Attracting, Developing and Retaining Valuable Employees**

John Tooley

### **Best Practices for Testing Multifamily Buildings**

Bill Graber, Collin Olson

### **Cold-Climate Heat Pumps: Dos and Don'ts**

Jon Harrod

### **Communication at a Crossroads**

Rana Belshe, Suzanne Harmelink

### **Dogs, Broken Doorbells, and No Paperwork: An Inspection Roundtable**

Jake Nuckolls

### **Equity 201 Roundtable**

TBD

### **Fight or Fix: Contractors & Agencies**

Jake Nuckolls, Benjamin Burton

### **Workforce Development Programs & Partnerships**

Richard Reilly, Diana McCarthy-Bercury, TBD

### **Heat Pump Water Heaters: Best Practices and an Illustrated Field Guide for the Retrofit Industry**

Amanda Hatherly, Bruce Manclark, Joshua Pierce

### **Hope for Homes: An Energy Retrofit Case Study**

Bill Graber, Jake McAlpine

### **How Does the Energy Code Apply to Existing Homes?**

Megan Kramer, Michael Lubliner

### **How to Design Effective Contractor Engagement Strategies with Comfort Ready Home**

Amy Burke, Cyrus Collins, David Olivas

### **Measured versus Modeled Approach for Home Performance**

TBD

### **Metrics of Success: Building a More Resilient and Diverse Workforce**

Roxana Ayala, Rohini Srivastava

### **The Costs of Decarbonizing Existing Multifamily Buildings**

Núria Casquero-Modrego, Brennan Less, Iain S. Walker, Lauren Westmoreland

### **The Water Energy Nexus**

Andy Padian, John Tooley

### **Turning Environmental Justice Talk into Action: Examples from the Field**

Sam Baraso, Kris Grube, Wendy Koelfgen, Jay Richmond, Erin Rose

### **Using Feedback to Improve Communication and Quality Services**

Michelle Butler, Suzanne Harmelink

### **Why Vented Crawlspace Don't Always Work**

Nikki Krueger, Sam Myers

## Half-Day Workshops

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### **2023 Ventilation Extravaganza**

Paul Francisco, Rick Karg

### **Air Sealing and Air Tightness Testing Workshop**

Ken Allison, Sam Myers

### **Department of Energy Home Performance with ENERGY STAR and Home Energy Score Workshop**

Megan Plog, Amy Royden-Bloom, TBD

### **Heat Pumps To The Rescue: What Could Go Wrong?**

Bob Davis, Paul Francisco, Bruce Manclark

### **How to Audit a Multifamily Building if You have Never Done One**

Andy Padian, Brody Vance

### **Practical Approaches to Maintaining Jobsite Health & Safety**

Terry Emelander

### **Scaling Innovative Installation Methods, Materials, and Measures within US Department of Energy's Weatherization Assistance Program**

Stephanie Insinna-Sahondo, Doug Jones, Chuck Kurnik

### **How to Start a Healthy Homes Program**

(Keith Canfield), Michelle Miller, Laura Viik, TBD

### **NREL & DOE Continuous Improvement Workshop**

TBD

## Full-Day Workshops

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### **Business Insider: The Inner Working Gears of a Home Performance Business**

Alyshia Casper, Shad Cook, Matt Dennis, Brandon Granger, Jon Harrod, Adam Hobbs, Damian Hodkinson, Brittany McDonald, Shana Ranger, Matt Slimskey, Hal Smith

### **WAP Programmatic Peer Exchange**

Allen Carbert, Phil Hull, Meghan McMillen, Geoff Wilcox

# 60-Minute Sessions: Tuesday-Thursday



## Affordable Housing & Multifamily

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### **Affordable Pathways to Building Electrification in the Southeast**

Sydney Roberts, William Bryan, Emily Levin

### **Building Nonprofit Partnerships to Reach Underserved Communities**

Bethany Kitch, TBD

### **Electrifying Low-Income Households: Lessons from the Field**

Charity Fain, Jim Plantico

### **Incorporating Resilience to Address Extreme Climate Events & Climate Justice**

Rob Buchanan, Pilar Calderin, Isaiah Kamrar, Jaimes Valdez

### **Insulation and Air Sealing in Low-Income Multifamily Energy Efficiency Programs**

Lance Collins, Veena Singla, Roberto Valle Kinloch

### **Layering and Bolstering Existing Energy and Health Programs for Deep Energy & Electrification**

Alon Abramson, TBD

### **Learning to Love Heat Pump Water Heating for Multifamily**

(Kimberly Vermeer) Becky Schaaf, Iain Walker, TBD

### **Pivoting from Multifamily Energy Efficiency to Multifamily Decarbonization**

Sam Beeson, Kevin DeMaster, Brody Vance

### **Strategies for Decarbonizing Affordable Housing**

Jennifer Amann, Stephanie Sosa-Kalter, Carolin Tolentino

### **Using Home Energy Score to Lessen Energy Burdens in Low-income Communities**

David Heslam, Tonya Swenor, TBD



# Building Envelope

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## **Advanced Air Sealing**

Eric Nelson

## **Batten the Hatches! Window Retrofits Shut Out the Storms and Keep in the Energy Savings**

Katherine Cort, Rowan McCarthy, Marcus Redden, Christian Valoria

## **Crawlspaces: The Good - The Bad - & The Ugly**

John Tooley

## **How to be a Homeowner Hero: Helping your Customers Make their Homes More Disaster Resistant**

Chrissi Antonopoulos, Theresa Gilbride, Christian Kaltreider

## **Innovative Approaches to Air Sealing Multi-Family Buildings and Updated Air Sealing Certifications**

Ken Allison, Mike D'Esposito, Larry Zarker

## **Installing Insulation, Getting the Most out of Your Equipment, Materials and Time**

Chris Fuerst, Betsey Tipton

## **Introducing ORNL's Building Science Advisor (BSA)**

Michael Lubliner

## **Mobile Home Electrification: How to Be Successful (Parts 1 & 2)**

Matt Dennis, TBD

## **The Science Behind Insulation: In Cavities and Continuous**

Marcus Bianchi, Achilles Karagiozis

## **Vermiculite Insulation and WAP - Details and Experiences from Illinois**

Bill Eckman, Paul Francisco



## Diagnostics & Audits

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### **A New Tool for Home Energy Retrofit Analysis and Verification**

Tyler Pilet, Samuel Rosenberg

### **Auditing & Modeling Requirements for the IRA**

Larry Zarker, TBD

### **Best Practices for Completing Duct Leakage Testing**

Jake McAlpine

### **Building Diagnostic Tools: What, Why, and How**

Doug Horgan

### **Combustion Safety Testing Protocols**

Paul Francisco

### **Evaluating Multifamily Buildings for Electrification**

Shad Cook, TBD

### **Existing Multifamily Testing and Air Sealing**

Torrance Kramer

### **Heat Pumps for Auditors**

TBD

### **Remote QA Protocols - Reactions from the Field**

Edward Louie, Kevin Powell

### **The Impact of Water on the Building Industry and How to Scale Efficiency Efforts**

Ryan Meres

### **Infrared Scanning for Energy Audits**

Michael Ramsden



# Fundamentals

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## **Air Sealing & Duct Sealing Basics**

TBD

## **BTL, Refrigerant Cycle, SSE, Oh My!: How to Communicate Complex Ideas in an Understandable Way**

Jake Nuckolls

## **Bugs, Mold and Rot**

John Tooley

## **Heat Loss / Heat Gain**

Rick Karg

## **Heat Pump 101**

Christopher Haringa

## **How to Explain Heat Pumps to Homeowners**

Russell King

## **IAQ Management in Dwellings**

Rick Karg

## **Summer Moisture: Problems and Solutions**

Douglas Horgan

## **Radon 101**

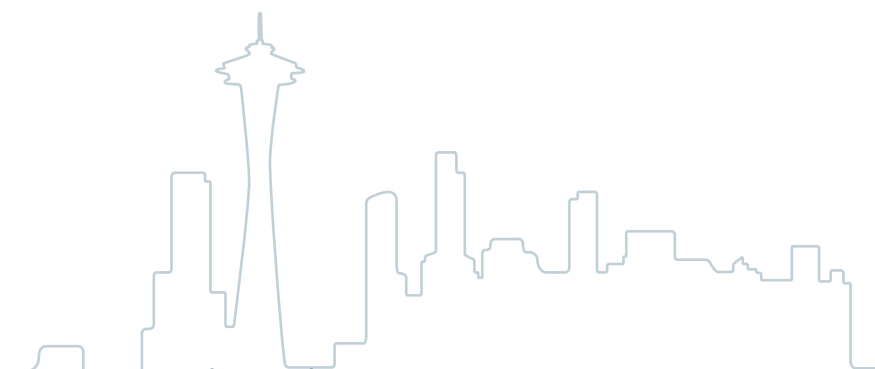
Dick Kornbluth

## **Whole Home Retrofits: The Order Matters**

Patrick Huelman

## **Zone Pressure Diagnostics**

Rick Karg







# Home Performance Policy

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## **Advocacy 101**

Lizzie Bunnen Pack, Audrey Bragg

## **Better, Stronger, Faster: Home Energy Score Tool Enhancements Offer More Opportunities for Efficiency Upgrades**

Torsten Glidden, Charlie Holly, Noel Merket, Megan Plog, TBD

## **Certifications & Labeling to Capture the Value of Your Work for Homeowners**

Dacia Bakkum, Pamela Brookstein, Woody Fincham, Caprice Johnson, Roger Kainu, MacKenzie Winchel

## **Data Access**

TBD

## **Deep Dive on Hope for Homes & the High-Efficiency Electric Home Rebate Act Implementation**

Kara Saul Rinaldi

## **Diversity, Equity & Inclusion and IRA Implementation**

Darnell Johnson, TBD

## **State Policy: 2022 Outlook**

Sabine Rogers, Xavier Walter

## **The Boom in HP Resources: Overview of Funding Opportunities & How to Combine for Greatest Impact**

Emily Levin, Kara Saul Rinaldi, TBD

## **The Performance Playbook: A Policy and Program Design Strategy for Accelerating Energy Efficiency and Electrification Goals**

Andy Frank, TBD



## HVAC Strategies

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### **Air Ducts: Flow and Thermal Performance**

Allison Bailes, Marcus Bianchi

### **Being Successful With Retrofit Heat Pumps**

Eric Kaiser

### **Field Test Results from Cold Climate Air Source Heat Pump Installations in New York State**

Richard Faesy, Christopher Dymond

### **Fixing a Broken Heating and Cooling Industry One System and One Contractor at a Time**

Caroline Hazard, Joe Medosch, TBD

### **Humidity Control**

Allison Bailes, Nikki Krueger

### **Low-Power Home Electrification: The Key to Avoiding Electric Panel Upgrades**

Brennan Less, Iain Walker

### **Prioritizing Heat Pump QA Inspections Based on Early Indicators of Energy Performance**

Marshall Johnson, Bruce Manclark, Adam Shick

### **Pumping Up Training for Cold-Climate Air Source Heat Pumps**

Bob Davis, Dan Wildenhaus

### **Raising the Bar: Enhancing Education and Guidance of ASHP Selection, Design, Sizing, and Installation**

David Norman, Alice Rosenberg, Larry Zarker

### **Summer Performance of Heat Pumps in Heating Climates**

Ed Janowiak

### **Variable Capacity**

TBD

### **Fitting a Round Tank in a Square Closet: Installing Hybrid Water Heaters in Small Spaces**

Bruce Manclark



## IAQ & Healthy Homes

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### **Achieving Health Benefits Through Electrification**

Shannon Stendel, Brett Singer, TBD

### **Assessing & Measuring the Relationship Between Weatherization, Thermal Comfort, & Asthma**

Laura Humphrey, Samuel Manning, Michaela Marincic, Bruce Tonn, Erin Rose

### **Baby It's Hot Outside: Addressing Extreme Heat in Existing Housing**

Chrissi Antonopoulos, Christian Kaltreider, Theresa Gilbride

### **EPA Existing Homes Program Model: Rewarding IAQ Upgrades**

Aaron Johnson

### **IAQ Monitors: Seeing the Invisible or Nothing At All?**

Joe Medosch, Kevin Kennedy, Brett Singer

### **IAQ Science and Science Fiction**

Paul Francisco

### **Linking Healthcare & Healthier Homes: Lessons Learned from HH Programs**

Rebeca Barrios-Hurst, Yvonne Lewis, Erin Rose

### **Maintaining IAQ During Wildfire & Poor Air Quality Events**

Chrissi Antonopoulos, Alex Boetzel, Waylon White

### **Strategies for Optimizing the Use of Healthier Materials in Affordable Housing**

(Larry Zarker) Tristan Grant, Ryan Johnson, TBD

### **The Missing Piece: Integrating Indoor Air Quality, Energy Efficiency and Resilience for All Community Members**

Megan DeMasters, Heidi O'Mara

### **Ventilation & IAQ**

Douglas Horgan, Patrick Nielsen, Travis Rasch, Jonathan Wilson

### **What's New with IAQ**

Eric Werling, Nicholas Hurst, Iain Walker



# Operating & Delivering Weatherization Programs

## Designing & Implementing Internal Quality Control Strategies for Weatherization Contractors

Shane Bulick, Lauren McFeeley, Andy Etue

## Ethics in Weatherization

Rick Karg

## Installer Badges Toolkit and Visualization Resources

Cory Chovanec, Jal Desai

## Marketing and Communications Strategies for Reaching Low- and Moderate-Income Communities

Peter Troast

## The Future of Weatherization

TBD

## Top 10 Audit-Related QA Issues and Remedies

Bill Eckman

## Transfiguring the NREL/DOE Weatherization Installer Badges Training Program for the Broader Market

Adrian Arenas, Ryan LaPoma, James Metoyer

## WAP Deep Dive: How Memphis is Braiding Weatherization and Electrification

Chad Bowman, Maggie Kelley Riggins

## The Workforce and Recruitment Challenge: What's working so far?

Allen Carbert, TBD

## WX Presentation Extravaganza for Field Staff

Jake Nuckolls, Brian Hochhalter, TBD

## ASHRAE 62.2-2016 Compliance in Weatherization

Paul Francisco, Rick Karg

## The Ameren Illinois Weatherization Supplemental Staffing Initiative for Community Action Agencies

Diana Fuller, Jamey Neal

## What's the Latest? Weatherization Assistant Version 10 News and Improvements

Bill Eckman

## Additional sessions coming soon.

### Topics include:

Inflation Reduction Act Rebate Programs & WAP

IRA and BIL Workforce Programs & WAP

Justice40 Initiative and Tools

Navigating WAP Competitive Funding Opportunities

DOE Peer Exchange - Women in Weatherization

DOE Peer Exchange - Young Weatherization Professionals

DOE Energy Audit Guidance and Integrating Solar PV

Trainer's Consortium Panel

NASCSP Updates and Policy Outlook

NCAP Updates

Building for Growth: Weatherization Updates from NREL

Weatherization Readiness Panel Discussion

The Faces of the ORNL Weatherization Help Desk

Multifamily Best Practices

DOE WAP Project Officer Panel - States East of the Mississippi

DOE WAP Project Officer Panel - States West of the Mississippi

DOE Office of Inspector General

Cooling Programs in Mild and Cold Climates

BIL Innovative Projects/Pilots



## Program Operations & Updates

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### **Bringing EE to the Masses: Promoting Your Program to a Diverse Audience**

Angie Bivens, Suzanne E. Sebastian

### **Effectively Integrating Leveraged Resources into Programs**

Andrew Gostisha, Frank Rapley

### **Encouraging Contractor Participation in LMI and Disadvantaged Communities Programs**

Angie Bivens, Scott Harrell, Robyn King, Suzanne Sebastian

### **Equitable Stakeholder Engagement that Benefits All**

Chase Macpherson, Maggie Kelley Riggins, Julia Sander

### **Introducing ENERGY STAR Home Upgrade: What, Why, and How**

Doug Anderson, Daniel Lawler

### **Making Homeowners “Heat Pump Ready”**

Sharon Guarino, Christopher Haringa

### **Transitioning Energy Efficiency Programs to Meet Decarbonization Goals**

Kristin Dupre, Meg Howard

### **U.S. DOE Residential Team Update**

(Jonathan Cohen), Amy Royden-Bloom, Jaime van Mourik, Eric Werling

### **Utility Pilot to Address Structural Barriers and Deferrals**

Deb Davis, John Parrish, Anthony Saccamango



# Running Your Home Performance Business

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## **An Easy Way to Boost Close Rates by 5 Points**

Bill Hoelzer

## **Blueprint for Growth: Lessons Learned Scaling a Building Performance Contractor**

Martijn Fleuren

## **Brand Marketing: How to Effectively Tell Your Story through Marketing**

Nancy O'Hare-Zika

## **Direct to Consumer Marketing: Customer Acquisition for Contractors**

(Mark Tajima) Bill Graham, TBD

## **Homeowner Marketing Strategies that Work: Lessons from the Field**

Pamela Brookstein, Kat Cahill, Ty Rucarean

## **HR for Business**

Patch Garcia

## **Marketing for Recruitment**

(Patch Garcia) Nancy O'Hare-Zika, Peter Troast

## **Software Solutions**

Elena Chrimat, Michele Windsor, TBD

## **Strategic Partnerships In Order to Grow**

Charles Cormany, Robert Hamerly, TBD

## **The Affordable Retrofit**

Mark Tajima

## **The Consumer Landscape in the Transformative Era of IRA: What It Means For Your Marketing**

Peter Troast

## **Worst Practices: How to Put Yourself Out of Business**

Damian Hodkinson, Dan Thomsen



## The Smart Home

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### **Addressing Equity & Accessibility for the Smart Home**

Thomas Anreise, Emily Kemper, TBD

### **Better Together: Electrification & The Smart Home**

Beth Karlin, TBD

### **Not Throwing Away This Shot: The Smart Home is Here, but Will It Perform?**

Lieko Earle, Beth Karlin, Emily Kemper, Kara Saul Rinaldi

### **Smart Home Solutions for Multifamily Buildings**

Carter Li, TBD

### **Smart Tools and Intelligent Apps = Superior Technicians**

Joe Medosch, Rob Minnick, Christian Valoria

### **The Best and the Brightest: New Integrated Home Solutions**

Chloe Mayhew, Alice Rosenberg, TBD



## Workforce Development

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### **Attracting and Retaining Minorities in the HVAC Industry**

Adam Hobbs, TBD

### **BPI's Certification and Standards Update**

Richard Faesy, Larry Zarker

### **Creating and Promoting a Diverse Workforce in Energy Efficiency (Parts 1 & 2)**

(Jason Elton), Laura Klement, James Metoyer, Andre Ramirez Roberts, Indika Sugathadasa, Jackie Zusi-Russell

### **Energy Heroes: Developing the Diverse and Dynamic Workforce of the Future**

Janell Hills, Darnell Johnson, Xavier Walter, Patch Garcia

### **Equity Focused Workforce Development**

Bethany Kitch, Sarah Northrup, Rebecca Olson

### **IIJA Impacts on Workforce**

Xavier Walter, TBD

### **IRA & Workforce Development**

TBD

### **Regional Perspectives on Electrification Training**

Amanda Hatherly, Maggie Kelley Riggins, Sarina Sawyer, TBD

### **Strategies for Creating a Diverse Building Performance Workforce**

Alison Diehl, James Metoyer

### **Working Together to Diversify Building Performance via Minority-Owned Firms**

Monica Guevara, Steve Gelb