



# Aged Performance of Asphalt Shingles

An IBHS Online Disaster Dynamics Academy  
February 23 – 25, 2021

## Overview

The roof is a home's first line of defense. Join IBHS scientists as we unveil the results of our testing on five-year-old samples from our roof aging farm. We will explore the aged performance of asphalt shingles through a blend of virtual teaching sessions with live streamed laboratory demonstrations from the IBHS Research Center. We will dive into challenges with asphalt shingle performance, examine the performance differences of aged products, and demonstrate asphalt shingle testing for wind, hail, and wildfire resistance.

Small group discussion sessions will give you an opportunity for interactive participation with the research staff. Registration for these breakout groups is limited.

**NOTE:** Demonstrations may be changed due to weather conditions at the Research Center on the day of the event.

## February 23

### Panel Discussion

*Panelists: Dr. Tanya Brown-Giammanco, Dr. Murray Morrison, Chris Sanders*

The research team will explain the aging farm research and take questions from attendees as we dive into the performance concerns with asphalt shingles in research testing and in the field.

### Aging Farm Demonstration

*Dr. Ian Giammanco*

From out on the IBHS Aging Farm, Dr. Ian Giammanco will walk participants through the harvest process where we extract the aged sample panels, and explain the data collected by each panel and each farm.

### Teaching session: Aged Shingle Wildfire Performance

*Chris Sanders*

This session will detail the wildfire performance of aged shingles in the E-108 standardized test method.



## February 24

### **COMET Demonstration**

*Dr. Murray Morrison*

This demonstration will provide an in-depth look at high-speed wind testing of asphalt shingles using the COMET apparatus.

### **Teaching Session: Aged Shingle Wind Performance**

*Veronica McNear*

Explore the wind performance results of aged shingles and take a look back at the role failing shingles played in IBHS's 2011 wind-driven rain demonstration.

### **Discussion sessions**

Breakout groups for question and answer discussion with IBHS researchers.

## February 25

### **Wind Uplift Demonstration**

*Veronica McNear*

Take an in-depth look at a common asphalt shingle failure mode from the small lab at the IBHS Research Center.

### **Hail Testing Demonstration**

*Dr. Tanya Brown-Giammanco*

An inside look at the IBHS Hail Impact Test Protocol for Asphalt Shingles will provide context to the performance results for hail on aged shingles.

### **Teaching Session: Aged Shingle Hail Performance**

*Dr. Tanya Brown-Giammanco*

Explore the hail performance results of aged shingles tested against the IBHS Hail Impact Test Protocol for Asphalt Shingles.