Leading the Roofing Industry through Collaboration

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- Any concerns or questions regarding the meaning or applicability of this policy, as well as any concerns regarding activities or discussions at SPFA meetings should be promptly brought to the attention of SPFA’s Executive Director and/or its legal counsel.
1989

- .97 gal gas
- Berlin Wall tumbles
- Microsoft introduces Office Suite
- Dow Jones - 2,753

AND

- September 22, 1989  Hurricane Hugo causes $7 billion in damages
Hugo brought people together

- Disaster relief and assistance from all over the world
- AND
- ORNL
- Education
- Insurance
- Industry Organizations
27 years later:

Evolved to not only Hurricane Investigations
Seminars
Webinars
Hail Investigations
Underlayments
Code
Moisture Control / Green
Best Practice
Roof Calculator Project with ORNL
Board Members

- Asphalt Roofing Manufacturers Association (ARMA)
- Cedar Shake and Shingle Bureau (CSSB)
- EPDM Roofing Association (ERA)
- Insurance Institute for Business & Home (IBHS)
- International Staple, Nail Tool Association (ISANTA)
- Metal Building Manufacturing Association (MBMA)
- Metal Construction Association (MCA)
- National Research Council of Canada (NRCC)
- RCI, Inc.
- Spray Polyurethane Foam Alliance (SPFA)
- SPRI
- Tile Roofing Institute (TRI)
- Two Affiliate Member Representatives
Membership

- Nonprofit organization
- Sponsor Members
- Affiliate Members
- Education Members
Affiliate Members

- Interested in the science of roofing, involved in roofing
- Represent industries involved in roofing
Learning Opportunities

- Seminars
- Tours
- Committee Meetings
- Research Teams
Opportunities to Learn: Seminars:

- Topics of current interest
- Solar
- Underlayment
- Fasteners
- Moisture
- Green
- Wind
- Hail
- Next one: March 16-17, 2017 Anaheim, CA - Focus: Underlayments, Fasteners and and Best Practice.
Opportunities to learn

Tours

▶ Oak Ridge National Laboratory
  Oak Ridge, TN
▶ National Center for Atmospheric Research– Boulder, CO
▶ University of Florida, Gainesville / Wind Research
▶ Insurance Institute for Business & Home Safety (IBHS), Chester, SC
▶ CPS, Inc. and University of Colorado Ft. Collins, CO
▶ FM Global
▶ National Research Council Canada, Ottawa Canada
▶ 2017: Wall of Wind, Miami FL and potential Hurricane Center
Opportunities to Learn: Committees

- **Underlayment**
  Synthetic, Organic, Self-adhering, and other.
  Address gaps in code, research, guides or testing standards to clarify underlayments role in the roofing envelope

- **Code:**
  Monitor code activity related to roofs

- **Moisture Control/Green**
  Id roof metrics and research needed regarding vegetative, pv, moisture, and wind turbines

- **Best Practice**
  In cooperation with the Insurance Institute for Business & Home, developing best practice manuals in all roofing types.
  - **Hail Investigation Committee**
    Oversight of the research
  - **Wind Investigation Committee**
    Oversight of the research
Best Practice Committee

Opportunity to Learn!!!!! Producing the BEST manual of industry Best Practices. Demo at spring 2017 seminar!
Opportunities to Learn

Research Investigation Teams

- Hail Investigations
  - 2004 OKC
  - 2011 Dallas - Fort Worth
  - 2016 Northeast Dallas/Metroplex
The objective of this program is to investigate the field performance of roofing assemblies after major hail events, to factually describe roof assembly performance and modes of damage, and to formally report the results for substantiated hail events.

- Unbiased reporting
- Volunteers
- Funded through donations
- Reports are available at no cost on www.ricowi.com
Hail Research Investigation

Event is identified
- Teams are assembled, badged and provided info to report
- Teams are balanced to provide unbiased reporting
- Approvals are secured from city
- Training on day 1: How to capture info, safety
- In the field days 2-5
- Reports are entered on data base form daily
- Final report is reviewed by technical experts and Board prior to publishing.

Prior:
- Weather is monitored through the season
- Team members sign up online or at RICOWI events
- HIP Committee meets formally 2 x year
Hail hit
Overview of impact repairs on coated membrane with damage.
Hail Impact divots in BVR roof.
Learnings

- Findings are formally reported and available at no cost online:
  www.ricowi.com
Opportunity to Learn

*Hurricane Investigations*

Charlie
Ivan
Katrina
Ike
Our Mission is to find out what roofs are damaged and how the damage is initiated in high winds.

The product manufacturers and installers need to determine how the damage can be prevented.
Volunteer teams - unbiased

Donations fund research

Reports available at no cost online at www.ricowi.com

www.ricowi.com: Reports
Team members are wind engineers, roofing material specialists, insurance analysts, engineers, or roofing consultants.

Team assignments are based on members’ fields of expertise; all act as observers but are also assigned specific jobs - Report Writer, Data Recorder, Photographer, Sample Collector.

Teams are balanced by assigning 2 manufacturing members with 2 members from academia, the insurance industry, consulting firms, or other non-manufacturer associations.

Teams members carry badges to assist in gaining access to damaged areas.

Team Members
Wind Research Investigation

WIP Committee monitors weather conditions during the season

Team members are recruited all year

*Always looking for volunteers

- Event is called
- A flyover is done to canvas the damage area
- FEMA approval for access
- Teams are assembled, badges, and told to report within 72 hrs of the event
- Training day 1, and onsite days 2-5
- Reports done nightly
- Report is reviewed by technical experts, Board reviews and it is published.
- It is hoped that the report is used by code officials, manufacturers, and contractors to improve the roof system.
Shingle tabs lifted and tore from 6 nails per pc.
Please join us!

- Next Seminar and Committee Meetings: March 16-17, 2017 Anaheim
- Fall Seminar and Committee Meetings and Tour: November 2-3, 2017 Miami
- As a Member
- As a Sponsor
Please consider getting involved with RICOWI and help Make a Difference in the Roofing Industry!

Thank you!