

# About BSC

- Massachusetts-based consulting firm
- Founded by Joseph Lstiburek ("Dr. Joe")
- Forensics

Building Science Corporation

- Design reviews
- Construction admin
- https:// buildingscience.com/



### ilding Performance and Enclosure Cons

SC began its practice and established its rep igating problems related to the durability and pigations of perfor

fity, and poor indoor air qua

ems such as mold. rot. de



### westigation of a known problem or with a ger eral building e ne the areas of the building that may b



rating and in need of repair. The field investig



Fine Homebuilding Summit 2020

The Building Science of 'the Lid'

### **Education and Training**



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## **Outline of Topics**

- Vented attics
- Unvented attics
- "Hybrid" Unvented attics
- Unvented attics... without spray foam?!
- SIPS (Structural Insulated Panels)
- Ice Dams
- Buried Ducts in Vented Attics
- 'Cut and Cobble' Unvented Roofs
- Truss Uplift

**bsc** Building Science







































































































































### **Previous Building America Research**

- Chicago (CZ 5A):
  - One winter, 50% RH
  - Unvented roofs-high risk
  - Cellulose lower risk than FG batt
  - Vented compact roof (chute) safe-but poor air leakage



## Previous Building America Research

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- Houston/Orlando (CZ 2A):
  - 2 attics, multiple seasons
  - Diffusion vents allow greater drying, avoid moisture problems

















































































































































