Welcome to Langui, Peru!

- Elevation: 12,000 feet!
- Few hundred households
- Almost no medical care or electricity (developing community)
Building materials that hold in heat are important for staying warm
Bad stoves lead to indoor smoke

In many developing communities, stoves are used for cooking and heating the home.
How can we design roofs to keep our houses warm and let smoke escape?
Test Setup

- Indoor Thermometer: 88.3°F
- Outdoor Thermometer: 68.1°F
- Stop Watch
- Fan
- Box Full of Ice
- Incense
- Heat Lamp
- Plastic Covered Window
- Floorless Foamcore House
- Cardboard Box
- Removable Student Roof
- Door
- Insert Holes
- House Insert