Advancing Cool Roof Coatings for Urban Heat Resilience

August 28, 2023

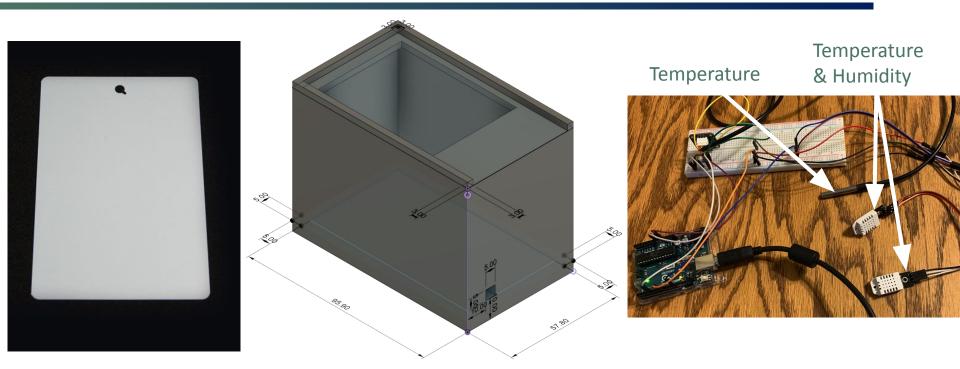
Colby Snyder, Dr. Russell Composto, and Dr. Kristin Field







Simulating the Home Environment



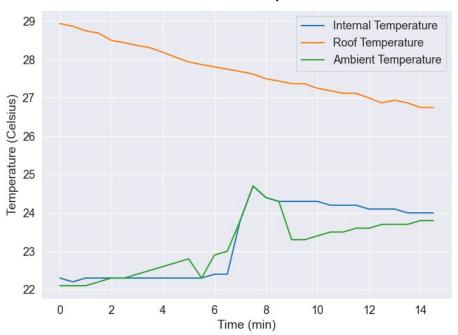






Data collection can be automated with Arduino

Sensor Setup Test

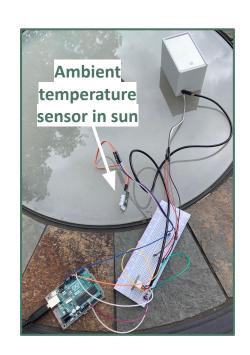


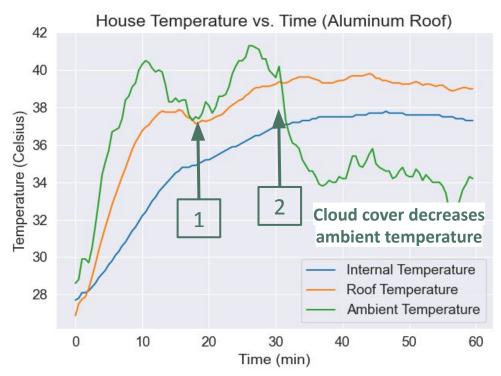






First outdoor test shows experimental challenges



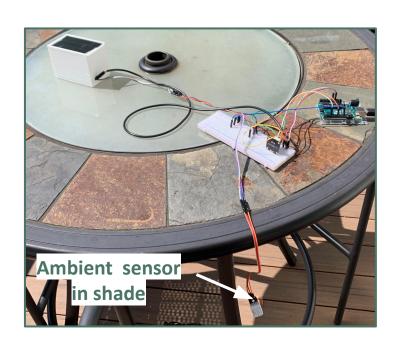


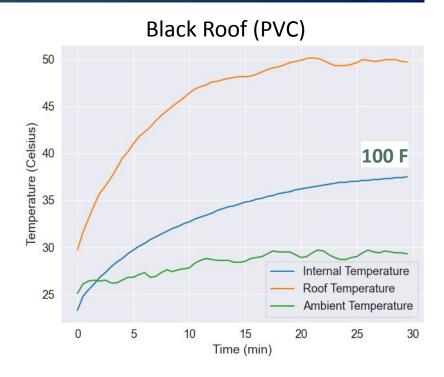






Black roof reaches 20°C above ambient temperature











Simple white roof shows 50% reduction in temperature difference



White Roof (PTFE)

