## EVAPORATIVE COOLING

IPRO 325 SHELTER SUBGROUP

## Problem

792 million people worldwide are malnourished 5 million children die each year due to malnourishment.

Many of the rural poor buy in bulk and stockpile since they typically are not near markets

Food stored from the market or their own produce typically spoils before they can eat or sell it 20% of fruits and vegetables are lost due to rotting during storage



## Objective

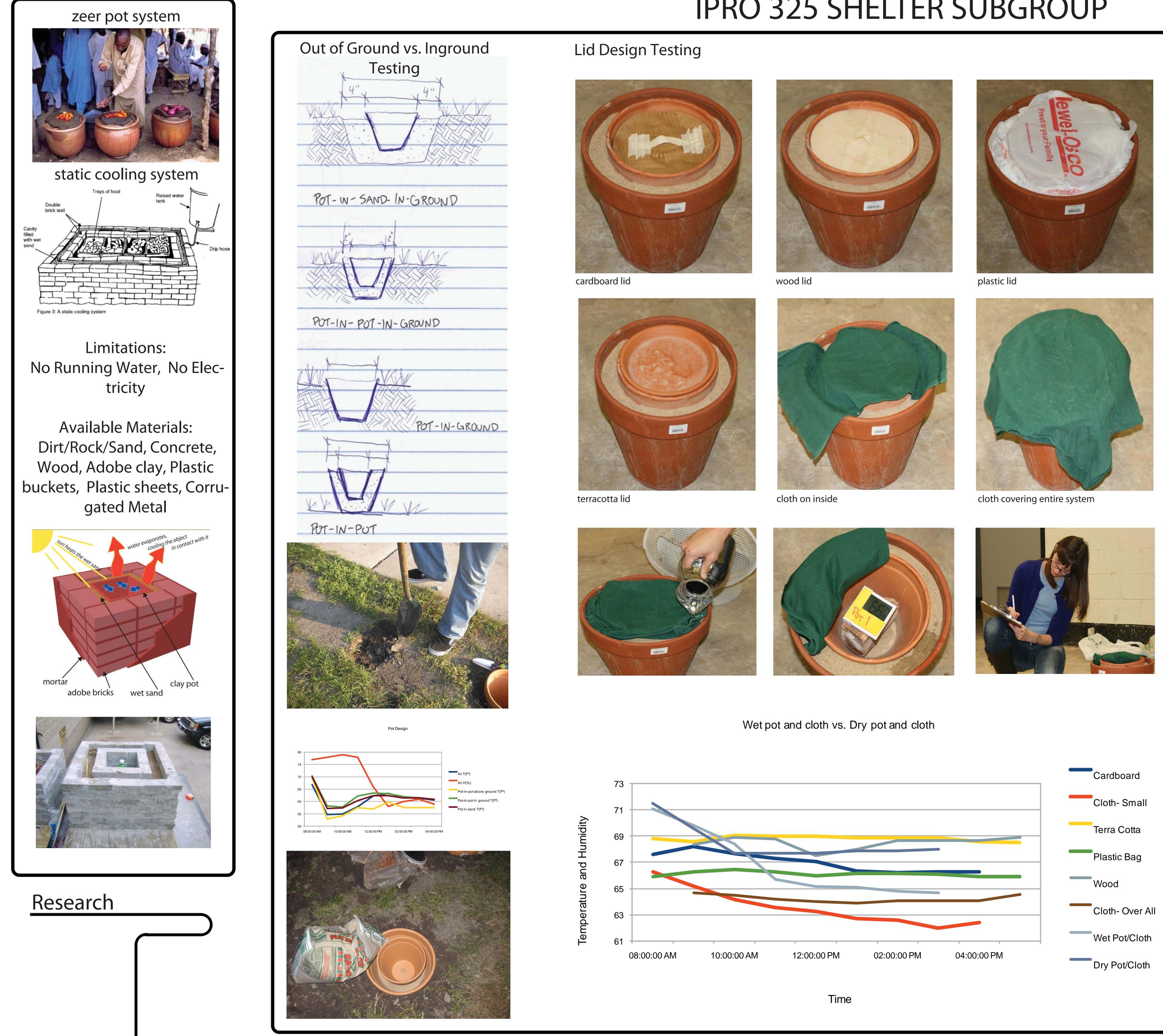
Design a cooling system that will help combat malnutrition by enabling the storage of fruits and vegetables for longer periods of time before decaying.

- -Expand on Research from Previous Semesters
- -Test In-Ground System vs. Existing Precedents -Test Lid Designs
- -Test Fruit Preservation in System vs. Out of System -Make Recommendation on Most Efficient System
- -Modify & Translate Construction & Use Manual
- -Find Implementation Location, Connections, & Funding

## **IPRO 325**

Affordable Solutions for the World's Poor

Prof. Ken Schug



9/1 10/1 11/1

Design Testing