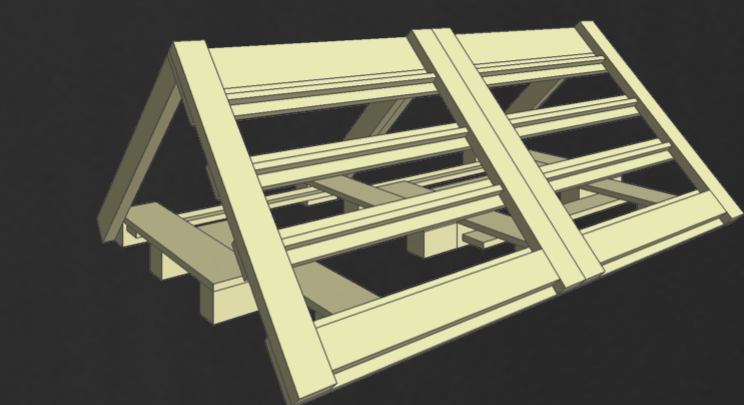
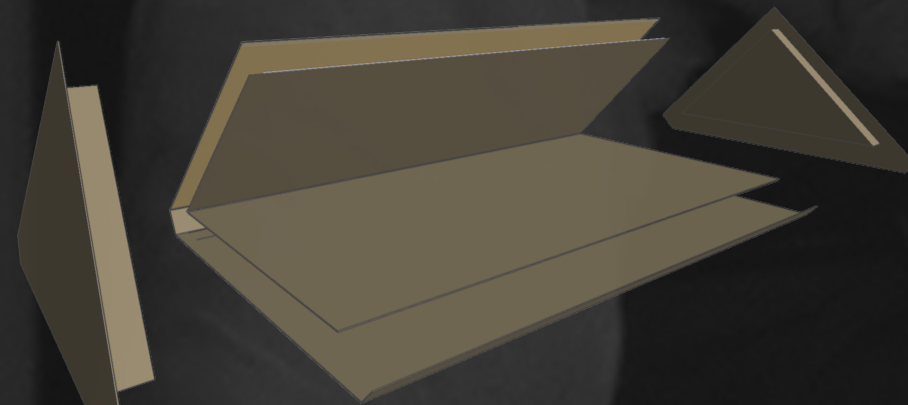


# hot box: a case study in search of shelter.

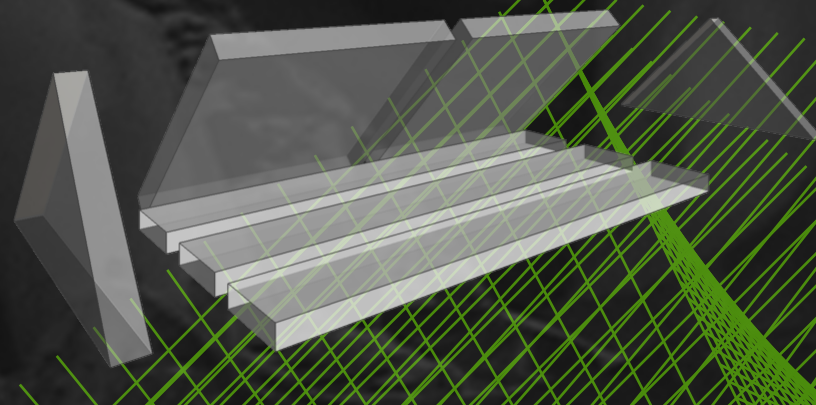
Combating cold is an easy task in most homes in our society, but our team decided to challenge our existing notions of space by building a new structure of more “improvisational means”. Using items commonly discarded as the byproducts of everyday life, we created an outdoor sleeping shelter by taking advantage of a few kinds of power not found in any outlet; solar radiation, and elbow grease. The result was something that exceeded our expectations, and in the end, gave us insight into the lives of those often left out of every day thought.



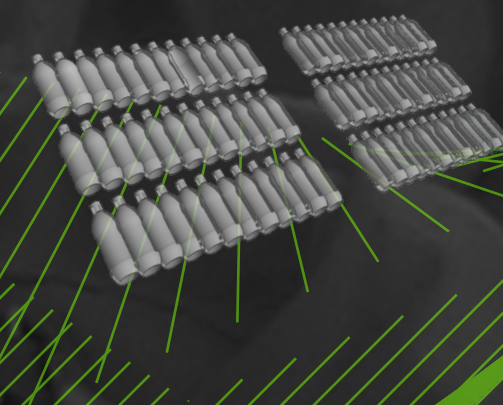
wooden structure: reducing cuts by building within the pallet module..



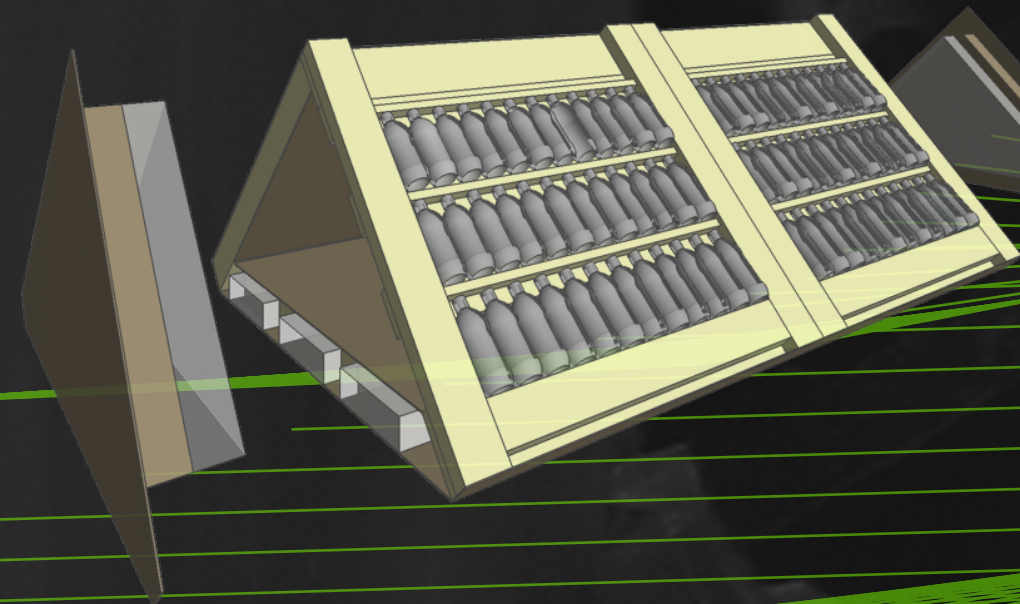
cardboard: a readily available indoor and outdoor drywall material...



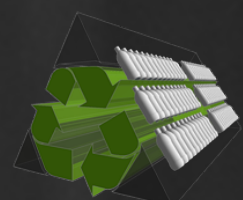
insulate before you insolate..



water as thermal mass..



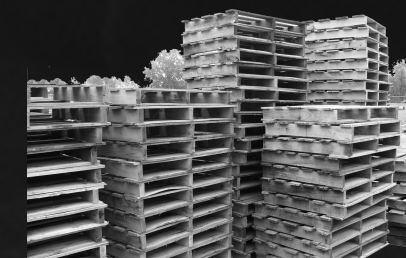
building materials: all found materials leads to a very low budget and reuses products that would other wise be wasted.....



Easy to Find Materials



Plastic Bags



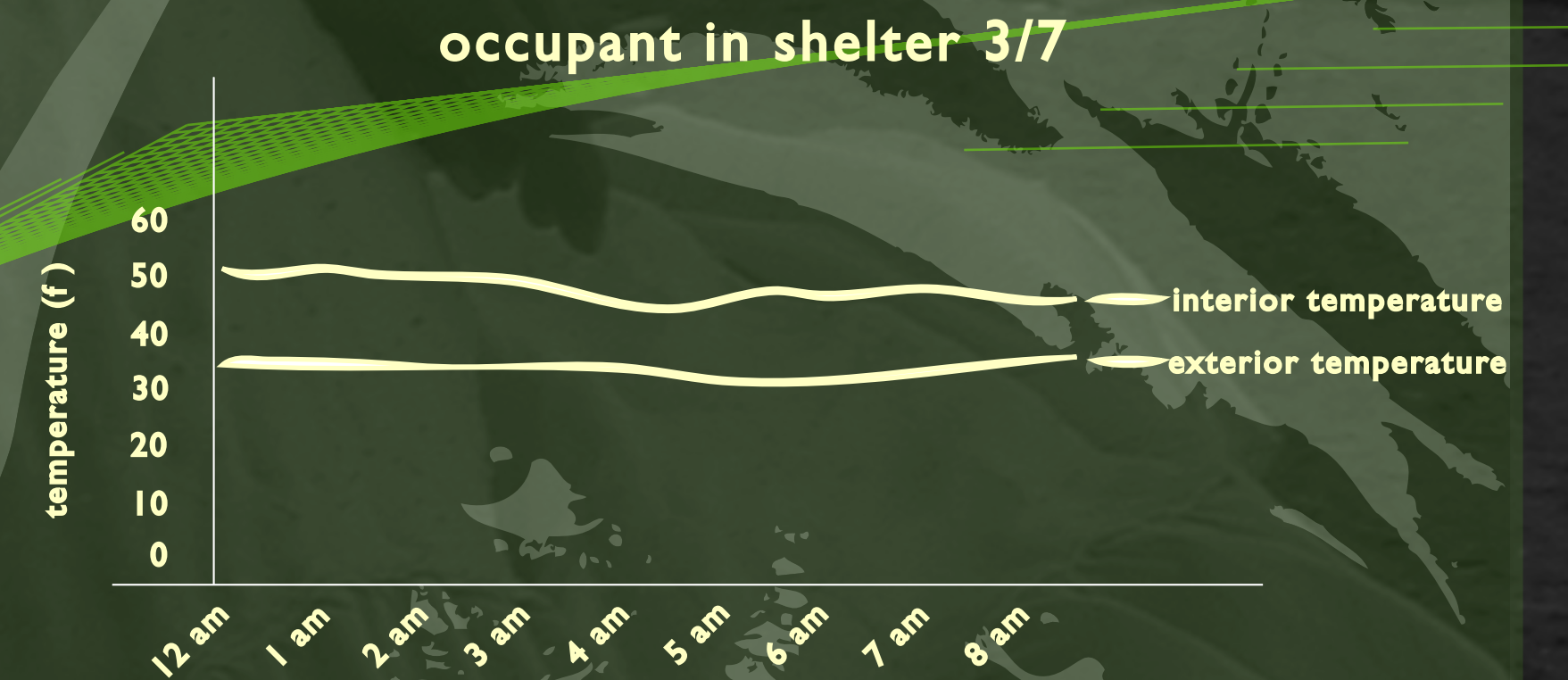
Pallets



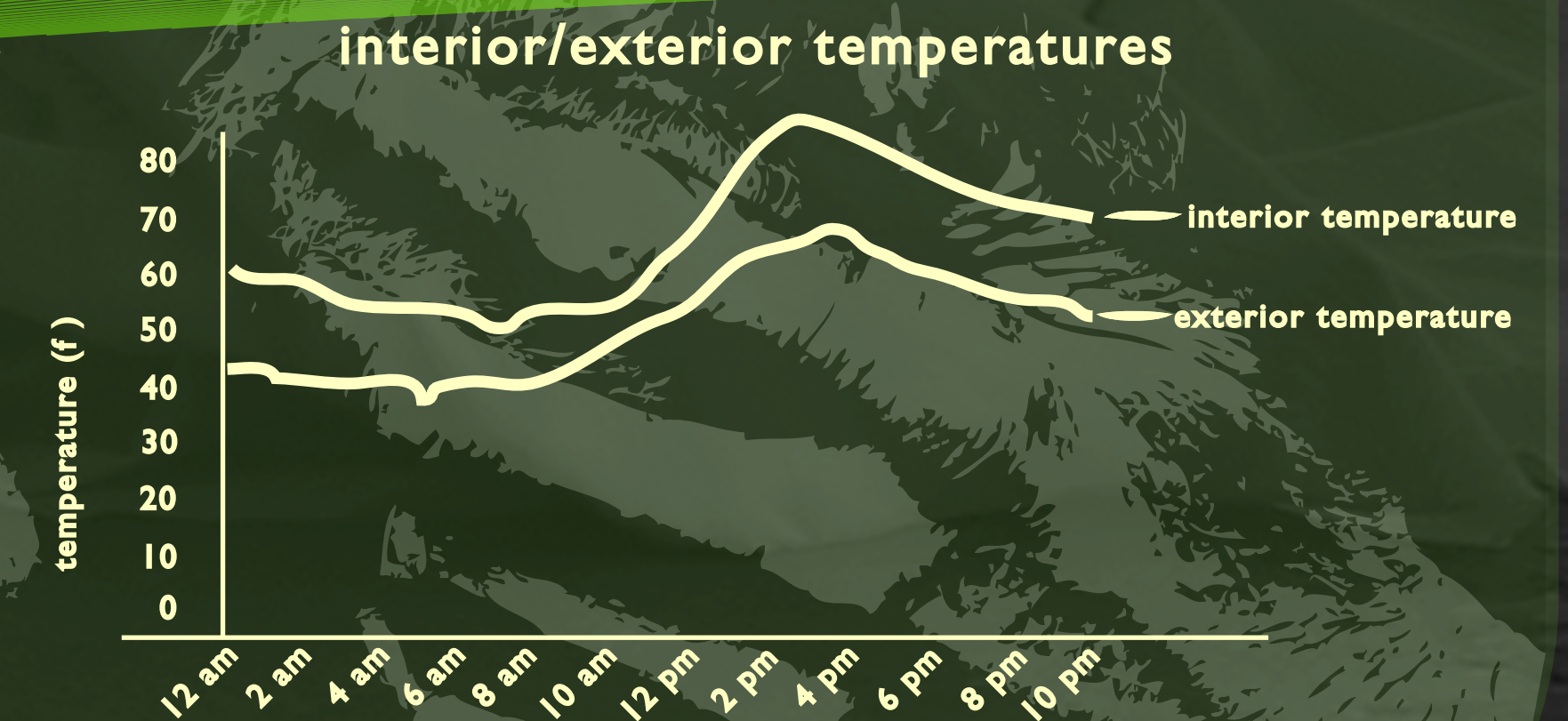
Water Bottles



Cardboard



After completing the design and build portions of the process it was time to do some data collection. Drew slept in the shelter for an evening and the results were interesting, but not completely what we expected. It was after this experience that we realized the need for more insulation.



After increasing the amount of insulation, we were able to accomplish our stated goal of maintaining an interior temperature 15 F degrees higher than the outdoor temperature.



simple. streetwise.shelter.



Environmental Control Systems 491

winter 08

keeler

kwok

timothy kremer  
matthew linn

drew hastings  
jocelynn gebhart

