

# SOLAR MOLE DETERRENT

March 8, 2013

*Alex Zabarenko, Jay Buhman*  
*Engineering 270*

## Problem Definition

- **Statement:** Moles are a problem for some people. The mole deterrent devices used today offer battery powered solutions that just don't last.
- **Scope:** Build a solar power mole deterrent device that re-charges the internal batteries during the day.

## Solution Specifications

- Rechargeable lithium ion batteries.
- Solar panel sourced from solar battery charger device.
- Sonic deterrent device+batteries+solar panel= \$47



## Competitive Analysis

- Competitors have much better looking package.
- They don't have the capacity for storing energy for a long time.
- There is not much sun in the pacific northwest at times.



## Future Improvement Ideas

- Improve weather resistance of device.
- Develop higher power device to extend the range of deterrent.