Background:

Solar energy refers to the energy that is produced from the sun, that can be used for lighting, heating air and water, and generating electricity. Solar energy is clean, low-maintenance, and renewable; however, it is time dependent. To address this limitation, thermochemical energy storage has been identified as a plausible means of energy that can be utilized to meet energy needs at all times.

A portable, solar-powered space heater to be used as a heat source in a small, enclosed area.



Anteater Solar Heater

Heat up your space without electric power or fossil fuels. Advisor: Professor Derek Dunn-Rankin



Bigger Picture:



Current Status:

- Identified magnesium chloride as material that best fits design parameters
- Developed a CAD model of our heating device

Next Steps:

We will begin testing samples of magnesium chloride in a lab to determine how much heat can be released for a given amount.

Team Photo



From Left: Justin Cardona, Jeremy Dang, Liz Bou, Alexander Torres, Roland Estropia, Darren Chan, Zachary Greensite

For more information, please contact: ebou@uci.edu Liz Bou

A.S.H. Webpage

