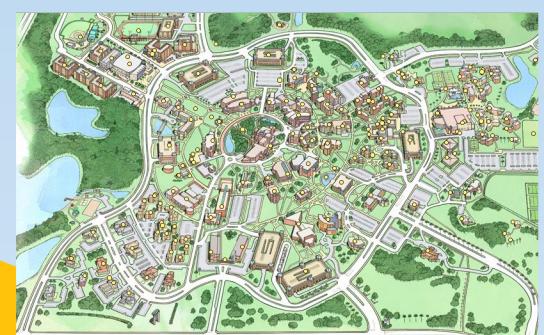


# Harnessing UCF's *Kinetic Potential* : Creating a Smarter Grid One Step At A Time

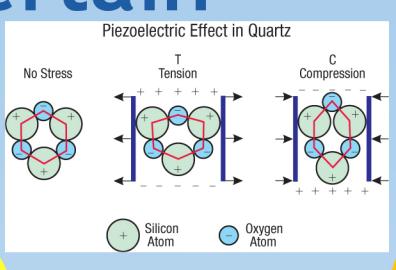
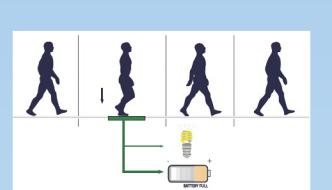
## What if?

- 1.) UCF's electricity was generated by a foot-powered smart grid?
- 2.) Students actively participated in that system and were MOTIVATED to walk around campus more frequently?



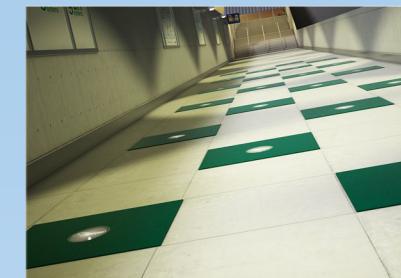
## How?

Through the piezoelectric effect, it is possible to generate electricity by applying pressure to (such as walking on) certain materials.



## When?

Companies are already beginning to develop electricity generating tiles and panels for use in efficient building design.



## What about UCF?

Our ultimate goal is to use these technologies to make most, if not all, UCF walkways generate electricity. Students would be able to track their individual energy output and, through social media, share and compare it with other students.



Kyle Cartechine  
Greg Boatright  
Daniel Simpson  
Brice McCoy

Faculty:  
Max Croft