Elliott Canton

Tina Jolly

Vivian Smart-Stewart

Final Project Outline

Radiation Mapping

Overall Goal: Analysis and determine the sources of radiation on the university campus as well as determine the effects of urban terrain on source detection.

Variable Considerations:

* Collect data at each location for the same duration of time.
* Collect data at the same time of day at each location to eliminate weather and temperature interference as much as possible.
* Maintain the same collecting methods.
* Perform data collection away from established pedestrian travel and congregation on campus in order to limit human interference with the detector without disrupting other activities on campus.

Procedure:

1. Add the GPS tracking sensor to the established system.
2. Perform a test detection cycle to ensure that all sensors are functioning properly and that the data collected is being stored in the correct locations.
3. Collect data from established locations for the same predetermined duration.
4. Data Analysis to determine sources of radiation.
5. Repeat the collection process if results are unclear or if faults are found during the detection process.

Tentative location List:

* The Faculty Club
* Foothill Parking Lot
* Outside Etcheverry Hall
* College of Chemistry near Hildebrand Hall
* Stu Gordon Stadium
* Construction near Davis Hall
* Construction near the University House