

# TRAVEL TEAM REPORT

The latest news and updates from the travel team in Ghana



*Data being collected for the kitchen stove improvement project*

## UPDATES

### SOLAR PUMP EFFICIENCY IMPROVED

### MEETING WITH HIGH SCHOOL HEADMASTER

### COLLECTED RAINWATER CATCHMENT DATA



*The borehole enclosure. Notice all of the green vegetation from the rainy season!*

## Project Work Off to a Fast Start

*by Michelle Friedmann*

The past couple of days in Ullo have been very busy for the travel team! Currently, EWB-ISU is working on projects related to rainwater catchment, school kitchen stove improvements, sanitation, and building a new clinic as well as monitoring the recently installed distribution system. Before the summer trip to Ullo, each of the project groups created comprehensive worksheets of data and information that they would like to be collected on this trip. This will help them plan out their project more effectively in the fall semester and guide the summer travel team to collect the necessary information.

On Monday, Clare and the team were able to see the whole distribution system in use on campus. Hearing the tanks fill up with water was music to their ears! The whole system is operational and we are happy to report that it is meeting all of the water needs of the students! The students are very happy with the system and it has relieved a large burden from them.

After investigating the borehole system more closely, it was noticed that the solar powered pump was turning off prematurely because of a shadow that appears over the sun sensor in the early evening. The sun sensor will be moved to another location free from shadows which will provide the senior high school with 45 minutes to an hour more of water being pumped each day!



On Monday, the team was able to collect almost all of the data for the kitchen stoves improvement project. This project is scheduled to be implemented by the winter travel team this December. The project consists of using a solar water heater to preheat water for the senior high school kitchen to reduce wood burning and fuel. This will improve cooking and fuel efficiency as well as improving the working conditions for the kitchen staff.



*Information being collected from the current kitchen stoves*

After a busy day on Monday, the team continued to make great progress on Tuesday. They began their day by checking out the borehole enclosure and are happy to report that the newly adjusted flow rate worked very efficiently and the pump never shut off because of a "low level event" or the borehole water level becoming too low due to over pumping.

The travel team had the opportunity to meet with the headmaster, assistant headmaster and the senior account of Ullo senior high school. They went over the four projects that are related to the school and discussed focus areas moving forward. The group came up with helpful recommendations for the project design groups. Overall, the senior high school is very excited about all of these projects. They are especially thrilled about the idea of a rainwater catchment system to use in correlation with teaching agriculture classes and the potential for a water supply for a school garden.

After lunch, the team went back to the high school to collect data for the rain water catchment group. They measured buildings to determine the surface area of the roofs and checked out the current septic tanks. While at the school, the team observed the girl's using the water distribution system to collect water for their bath before dinner. Clare had the opportunity to joyfully reconnect with a couple of students she befriended on her last trip to Ullo. Most of the students have been busy taking their exams for the end of the semester.

Overall, Clare reports that everyone is healthy and are enjoying their stay in Ullo very much.



*Measuring of the elevated tap stand*



*Meeting with the headmaster (next to Clare), assistant headmaster (behind headmaster), senior accountant (woman next to headmaster), and Hassan (right)*



*Left: Clare and Prosperia (a student she met in December)  
Right: Measurements being taken at the senior high school*

