

EE 491 Weekly Report

Week 6: 9/30-10/6

Group: *May14-03*

Advisors: *Dr. Sumit Chaudhary, John Carr*

Client: *ISU NanoLab*

Members: *Andersen, Martin; Diallo, Mouhamadou; Rodriguez, Nicholas; Straquadine, Joshua (Leader)*

Project Title: *“Design and implementation of cryogenic current measurements on organic photovoltaic cells”*

Weekly Summary

This week we were still waiting for some new parts to come it, so we spent most of our time working on our Project Plan document.

Meetings

9/30 Lab/Project plan

Duration: *2 hours*

Members Present: *All*

Purpose and Goals:

Going to the lab, and doing a timed measurement of the cool-down with and without a foil shield. Also compile the individual work done over the weekend for the project plan

Achievements:

- The lab was occupied that Monday, so we didn't get to work with our timed measurement.
- The project plan was more or less finished, and it got compiled and printed for next day's class.

Pending issues

Right now we're doing fairly well. Our first order of materials has already been placed, so right now we're waiting on those parts. Our advisor gave us another company to contact, so we gave them a call. We're in good shape to continue moving forward, though. We have finished the Project Plan (apparently a week early), and are getting ready to go to the lab frequently.

Plans for next week

Next week we will spend more time in lab, with the goals of building a prototype cold trap, measuring heating and cooling rates of the system, and hopefully making some more accurate low temperature measurements if the new platinum thermistor come in.

Individual Contributions

- Andersen, Martin: Attended the meetings, filled in concept sketch, functional requirements, and risks sections on project plan document. (8 hr)
- Diallo, Mouhamadou: Attended the meetings filled in project schedule, operating environment, and system description sections for project plan (8 hr)
- Rodriguez, Nicholas: Attended the meetings, filled in problem statement, deliverables, and work breakdown structure sections for project plan, edited Project Plan (9 hr)
- Straquadine, Joshua (Leader): Attended the meetings, called supplier companies, filled in system block diagram, user interface description, non-functional requirements and resource requirements sections for project plan, made final edits to Project Plan (10 hr)