

# BME 300: Skin Color Sensor

## Progress Report

Week 11 (11/14/2008-11/21/2008)

### Team Members

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### Problem Statement

Our goal is to design a device to monitor skin color changes during hot flashes, which could be used to provide the objective measurement needed for therapeutic drug testing for menopausal women. The device is to be capable of discerning color changes while remaining small and at a low cost.

### Last week's goals

- Finalize testing procedure
- Finalize photodiode purchase
- Start thinking about gain values

### Accomplishments

- We have phototransistors, which should be the same thing last year's team bought.
- Tested circuit, somewhat. Still trying to find a clear way to induce and test skin color. We're thinking of using a hair dryer to heat and redden the skin.

### Difficulties

We just need to keep working hard at this, get through the testing, and come out with a reliably working circuit and sensor.

### This week's goals

- Finish testing all LED colors and sensor types that we want
- Continue to look into possible light to frequency sensors
- Eat turkey
- And mashed potatoes

## Activities

### Vince

11/14/2008	Class Meeting	3.0 hours
11/14/2008	Research into last semester's photodetector	0.5 hours
11/19/2008	Building and testing circuit	2.5 hours
11/20/2008	Sensor and photodiode research	1.5 hours
11/21/2008	Progress Report	0.5 hours

### Brooke

11/14/2008	Class Meeting	3.0 hours
11/17/2008	Ordering Photodiodes	0.5 hours
11/19/2008	Building and testing circuit	2.5 hours

### Amy

11/14/2008	Class Meeting	3.0 hours
11/19/2008	Building and testing circuit	2.5 hours

### Grant

11/7/2008	Class Meeting	3.0 hours
11/19/2008	Building and testing circuit	0.5 hours