

## **Olfactory Conditioning Apparatus for Fruit Flies**

**Week 1** – January 29 to February 5, 2009

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### **Problem Statement:**

The aim of this project is to improve or completely re-design a device that is currently used to test fruit flies' olfactory sense, memory, and ability to learn. The current device is producing some inaccurate results because the fruit flies experience changes in air pressure and airflow. Airflow and pressure change need to be kept at a minimum while odors are introduced and cleared from the device.

### **Restatement of Last Week's Goals:**

The team's goal this week is to meet with the client so the team can see the device and he can further explain what needs to be improved. The team hopes to see the device in action, and possibly acquire one. After observing the device, the team will have a brainstorming session to come up with solutions to the problems.

### **Summary of Accomplishments:**

- The team met with the client and learned about how the device works, as well as what he expects to be modified.
- Brainstormed and came up with five ideas of how to improve or completely redesign the device
- Acquired device currently in use

### **Team Goals:**

- Set up weekly or biweekly meeting time with client
- Write the PDS
- Further develop design ideas
- Run tests on current model



**Expenses:**

Currently there are no expenses.