

Olfactory Conditioning Apparatus for Fruit Flies

Week 13 – May 1 to May 7, 2009

Team Members: Rob Bjerregaard – Team Leader
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Chuck Donaldson – BSAC
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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 goals from last week were to present the device and to write the final paper.

Summary of Accomplishments:

- Presented the device
- Completed the final paper

Team Goals:

- Deliver device to the client
- Final meeting with client

Activities:

Total Hours:

Rob	5.5.2009	Final Paper: writing and revising	2.5 hrs	2.5 hrs	49 hrs
Graham	5.4.2009	Final Paper: writing	1.5 hrs	1.5 hrs	44 hrs
Chuck	5.4.2009	Final Paper: writing	1.5 hrs	1.5 hrs	43 hrs
Scott	5.4.2009	Final Paper: writing	1.5 hrs	2.5 hrs	55 hrs
	5.6.2009	Final Paper: revising	1 hr		

Project Timeline:

Tasks	February				March				April				
	4	11	18	25	4	11	18	25	1	8	15	22	29
Project research													
Brainstorming													
PDS													
Prototype design													
Prototype building													
Actual device design													
Ordering													
Expected shipping													
Device manufacturing													
Testing													
Re-designing													
Re-testing													
Presentation													
Progress report													
Website													

Expenses:

Tubing and connections cost \$320.33, the new center piece costs \$335, and the two pumps (including shipping) cost \$219.96, for a grand total of \$875.29