

Progress Report: Device for the Presentation of Olfactory Stimuli to Monkeys

Names: Sarah Kolpin, Heather Shaner, Kevin Campbell, and Wyatt Potter

Clients: Goran Hellekant (AHABS), Thomas Roberts, Vicktoria Danilova

Advisor: Professor John Webster

Date: May 1 - May 7, 2002

Problem Statement: We need to build a device to assist in research comparing the ability of young and aging monkeys to select specific odors and tastants. The apparatus should provide quickly interchangeable pairs of stimuli and provide a reward for the correct solution. Apparatus should be readily moveable from cage to cage; a simpler design is preferable.

Summary of Accomplishments:

* Completed the construction of the aluminum prototype! The work was completed in a series of work sessions at Thomas Roberts' house (Wednesday, Friday, and Sunday). The door-locking mechanism is likewise completed and is operational. As a group, we did not really do much else this week (other than build the prototype).

Restatement of Team Goals:

- * Complete the construction of the aluminum prototype before this time next week.
- * Design poster presentation
- * Update paper and Product Design Specifications for the end-of-semester presentation.

Statement of Team Goals:

- * Update the paper and Product Design Specifications
- * Construct our poster presentation
- * Wrap up the project for this semester

Project Schedule:

Week: Date: Activities

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| 1 | 25 | January | form teams, select project, contact client |
| 2 | 1 | February | literature search; meet with client |
| 3 | 8 | February | develop understanding of project; develop PDS |
| 4 | 15 | February | brainstorm |
| 5 | 22 | February | brainstorm; evaluate designs |
| 6 | 1 | March | evaluate designs; decide on final design |
| 7 | 8 | March | work on design |
| 8 | 15 | March | Mid-semester presentation |
| 9 | 22 | March | work on design |
| 10 | 29 | March | SPRING BREAK |
| 11 | 5 | April | work on design |
| 12 | 12 | April | work on design |
| 13 | 19 | April | work on design |

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| 14 | 26 | April | work on design |
| 15 | 3 | May | prepare poster |
| 16 | 10 | May | Final Poster Presentation |
| 17 | 11th | May | final meetings with advisors: (2:00 PM, @ 266 CAE) |

Difficulties:

Again, no substantial difficulties were encountered this week. =o)

Hours:

Sarah - 9.0 hours (class, Thomas's shop) Total = 52 hours

Kevin - 7.0 hours (same) Total = 50 hours

Heather - 7.0 hours (same) Total = 42 hours

Wyatt -- 7.0 hours (same) Total = 50 hours