

## **Project #26**

# **Development of a Device for Neurochemical Sample Collection from Freely Moving Monkeys**

**Week 14** –December 5 to December 12, 2008

**Team Members:**

Paul Schildgen – Team Leader  
Lauren Eichaker – BSAC  
Cole Drifka – BWIG  
Angwei Law – Communicator

**Client:**

Ei Terasawa  
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**Advisor:**

John G. Webster  
Professor Emeritus, Dept. of Biomedical Engineering  
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**Problem Statement:**

To improve on the device created last semester that protects the microdialysis apparatus used during cranial experiments on non-human primates. This involves making the device lighter, more secure around the monkey's head, and better able to cushion the microdrive unit.

**Summary of Accomplishment:**

The final prototype was completed and presented on during the BME design poster presentations. After the presentation the team had their last client meeting. Also, the final paper was completed and reviewed.

**Statement of Team Goals:**

The team will submit the Final Paper electronically before Friday (12/12/08). Also, each team member will complete a peer and self evaluation and submit their design notebooks by Friday. Lastly, the team will complete the Client evaluation, have the website updated, and meet with their advisor on Friday.

**Difficulties:**

None at this point.

**Activities:**

Paul Schildgen	Worked on progress report, notebook, and final paper. Also, completed the self and peer evaluations.	4 hours
Angwei Law	Communications, collected materials, prepared for poster presentation, wrote up part for final report, and proof read final report.	4 hours
Lauren Eichaker	Finished draft of the "final design" section of the final report. Also added some pictures of our final design to my design notebook and completed my self/peer assessment.	3.5 hours
Cole Drifka	Worked on design notebook, updating the website, and the final paper	3 hours
Team	Met during class to present our Final Prototype during the poster presentations. Also, had our final client meeting.	3 hours

**Project Timeline:**

	September				October					November				December		
Tasks	5	12	19	26	3	10	17	24	31	7	14	21	28	5	12	
Project research	█				█											
PDS		█			█				█							
Brainstorming		█			█											
Prototype design					█				█		█					
Prototype building									█							
Ordering								█				█				
Expected shipping								█				█				
Device manufacturing								█				█				
Testing										█		█				
Re-designing													█			
Re-testing													█			
Meeting with client		█			█			█			█			█		
Group meeting	█				█					█				█		
Presentation							█							█		
Progress report	█				█					█				█		
Website	█															

**Expenses:**

1lb of RTV Silicone – 39.08 U.S. Dollars

Riveting Material – 9.77 U.S. Dollars

Cable Ties – 2.00 U.S. Dollars