

Project # 18 – Development of a Device for Neurochemical Sample Collection from Freely Moving Monkeys

Team Members: Cole Drifka (Co-Leader), Lauren Eichaker (Co-Leader), Ben Fleming (BWIG), Adam Pala (Communicator), Sarah Springborn (BSAC)

Progress Report: 6

Week: 6(March 6– March 13)

Primary Contacts	Information
Client: Dr. Ei Teresawa	Department of Pediatrics, Primate Center Building Email: terasawa@primate.wisc.edu Phone: (608) 263-3579
Advisor: Professor Brenda Ogle	Assistant Professor, College of Engineering, Biomedical Engineering Email: ogle@wisc.edu Phone: (608) 265-8267

Revised 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 continued efforts to reduce the weight of the device, secure it around the monkey's head, and better able to cushion the microdrive unit.

Summary of Accomplishment:

3/6/09 finally got in touch with a polymer specialist (Tom Turng) and contacted E. Palletz who owns an effective counter weight system to use as a model. 3/6/09 we met with the client to present the idea of using HDPE as a material in layers in order to greatly reduce the cumulative weight of the product. The client returned the "Monkey Maps" that Adam e-mailed to them last week with some measurements of the monkeys' heads for use in determining the dimensions of the prototype. On 3/10/09 we met as a team to discuss the "Monkey Map", proof the mid-semester and formulate a sketch to incorporate.

Statement of Team Goals:

We will meet with the client 3/13/09 to discuss the dimensions of the product, attempt to finalize a material of use and figure out which parts may be ordered. The team hopes to begin construction following Spring break.

Difficulties:

Although we obtained the "Monkey Map" with data describing the monkeys' head sizes, it was difficult to envision how to use this data to formulate dimensions for our prototype. We will simply consult with the client and try to decide on dimensions with her complete consensus; she knows her monkeys better than we ever could.

Activities:

		Hours This Week	<input type="checkbox"/> Hours
Cole Drifka	Brainstormed/drew a conceptual model of the prototype (the idea of cutting out holes for the ears instead of "ear slits"), bullet notes for powerpoint, materials research, notebook maintenance, TB test scheduling.	2.75	13.25
Lauren Eichaker	Powerpoint bullet notes and presentation preparation. Proofread, edited and formatted mid-semester report. Consulted guidelines for keeping a good notebook and checked my notebook.	3.5	16
Ben Fleming	Website maintenance, bullet notes for power point, brainstorming the conceptual model of the	2.5	13

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	prototype, materials research pertaining to the inflatable air bladder.		
Adam Pala	Proofread mid-semester, edited powerpoint, contacted the client regarding her materials ideas and the meeting to be held 3/13/09.	2.5	12.25
Sarah Springborn	Worked on bullet notes for powerpoint, notebook maintenance.	1.5	9.75
Team	Met as a team to proofread and finish powerpoint/go through parts and practice (3/5/09). Client meeting 3/6/09. Team meeting 3/10/09).	3	11.75

Expenses:

Pending...