

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: 7(March 13– March 27) (Little took place over Spring break teamwork wise)

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:

Finalized CAD drawing of design, proceeded to research where we may obtain materials/how to construct (i.e. booking the lab).

Statement of Team Goals:

Convey design to machinist to start manufacturing a mold. Obtain plastics/foam for actual piece, order watchstrap and small components to complete prototype. Book thermoforming lab for construction.

Difficulties:

Installing/Using Solidworks.

Activities:

		Hours This Week	<input type="checkbox"/> Hours
Cole Drifka	Researched materials for use in negative mold. Requested a number of quotes.	2.5	15.75
Lauren Eichaker	Learned how to use preliminary features (5 hours) (3/15/09). Modeled Prototype (5 hours). Appointment with TA (3/20/09). Requested foam materials quotes (1) and contacted Professor Turng and graduate students regarding the properties of the finished product and how we may proceed to book a thermoforming machine (0.5).	12	28
Ben Fleming	Requested foam quotes/research. Air bladder company research.	2.5	15.5
Adam Pala	Solidworks work.	7	19.25
Sarah Springborn	Finalized notebook to turn in.	1	10.75
Team	Met with the client 3/13/09: she expects a CAD drawing and finalized materials list by next meeting (3/27/09).	1	12.75

Expenses:

Pending...