

**Client**

Dr. Ei Terasawa  
Dept. of Pediatrics  
School of Medicine and Public Health

**Team Members**

Mark Reagan (Leader)  
David Leinweber (BSAC)  
Anika Lohrentz (Communicator)  
Alison Boumeester (BWIG)

**Progress Report 1**

October 22: October 29, 2009

**Problem Statement:**

The purpose of the project is to develop a device allowing monkeys to be free from chairing while experiments are conducted. Direct measurements of neurochemical substances in the brain from free moving non-human primates is significantly important for understanding complex brain function and developing treatment strategies for brain disorders in humans. During the last 3 semesters, four BME students worked hard to design and built two devices. However, the device still needs further refinement for actual application. We have a new idea to approach. The development of the device requires creativity, intellectual exercise, and hard work.

**Summary of Accomplishments**

- Observed Micro-drive surgery
- Researched materials for cone
- Researched prices for materials
- Finalized design

**This Week's Goals**

- Consult with client about parts
- Give presentation to vet
- Order parts
- Research ideas for thermo-forming and general fabrication of cone

**Individual Goals**

- All team members need to research plastic forming

**Activities**

- 10-28-2009: (Team) Researched Materials and Prices (2h)
- 10-27-2009: (Mark and Anika) Observed Micro-drive surgery (2h)