

- **Title**
Finger switch for electro-cautery surgery
- **Names**
Luke Harris
Nick Kortan
Crystal Marshek
Andrea Rozmenoski
Ryan Sydnor
Valentine Thao
Mike Wells
- **Date**
9/20-9/26
- **Problem Statement**
To modify electro-cauterizing tweezers used during neurosurgery from an on/off switch currently used in conjunction with a foot pedal to an on/off switch located on the shaft of the tweezers.
- **Restatement of Team Goals**
- **Summary of Accomplishments**
Met as a group on Friday 9/21. Looked up articles and other equipment related information on-line during class time. Met with Dr. Badie on Monday 9/24.
During our meeting with Dr. Badie:
 - 1) Viewed forceps/tweezers to get an idea of dimension, shape and problem.
 - 2) Discussed Dr. Badie's idea for a button on the forceps and where that button could be placed.
 - 3) Discussed need for button material to be autoclaved and not sharp (so gloves aren't caught during surgery).
 - 4) The button shouldn't be hard to depress.
 - 5) The current foot pedal can lead to confusion during surgery, due to multiple foot controls.
 - 6) Controlling the button needs to be done with one hand, one finger and with relatively no extra motion.
 - 7) A second contact person, in case Dr. Badie is not available (Samir Lapsiwala - lapsi@neurosurg.wisc.edu, should only be contacted through myself or Mike).
 - 8) Multiple use (as forceps and cauterizing forceps during surgery).
 - 9) Powered by wall outlet.

After our meeting with Dr. Badie:

 - 1) Article retrieving.
 - 2) Clinical Engineering contact.
 - 3) Going to the hospital to view the tool being used, tentatively scheduled for Friday.
 - 4) Finding out about manufacturers or suppliers of this tool.
 - 5) Presentation and Paper due 2 weeks from Friday.
- **Statement of Team Goals**
We hope to view the cauterizing forceps being used during a surgery on Friday

(during class time). We need to update the problem statement and hopefully starts the PDS (Product Design Specifications).

- **Project Schedule**

9/28 - View surgery, work on PDS, discuss workload for paper and presentation

- **Difficulties**

Finding "good" articles pertaining to this product.

- **Activities**

Crystal - 5 hours total. Searched for on-line articles. Met with Dr. Badie. Worked on progress report.

Luke - 7 hours total. Writing this progress report, looking through email, responding to email, etc. BWIG Meeting on Monday, September 17th (learned about web- page). Met with Dr. Badie. Searched for on-line articles.

Nick -

Mike -

Andrea -

Ryan -

Valentine -