

## **Progress Report 14**

**Date:** 1 December to 8 December, 2005

**Project:** Bioactive Interference Screw

**Client:** William Murphy, Ph. D

**Members:** Katherine Davis (BSAC)  
Aaron Huser (BWIG)  
Cole Kreofsky (BSAC)  
Dana Nadler (Communicator)  
Joe Poblocki (Team Leader)

### **Problem Statement:**

Currently, during an ACL reconstructive surgery, titanium or partially degradable interference screws are used to secure the graft within the femur and tibia. These screws or parts of these screws will remain in the patient's knee for the rest of his or her life and can cause problems. The current screws are also not conducive for tissue re-growth. It is, therefore, our client's desire to develop a biphasic interference screw for ACL reconstruction that will promote and foster the growth of surrounding bone tissue, as well as limit any potential problems a patient may incur due to these screws in his or her body.

### **Summary of Accomplishments:**

We finished the paper for the December 7<sup>th</sup> due date. We also completed the evaluations and notebooks. All we need to for the semester is give our presentation this Friday, December 9<sup>th</sup> (pending and floods). We have scheduled to meet with our advisor next Wednesday, December 14<sup>th</sup> at 4:00 p.m. to discuss this semester and what she would like to see next semester.

### **Hours:**

#### **Group:**

Worked on paper

**14.0 hours**

**TOTAL: 81.5 hours**

### **Goals for 12/8/05-1/19/05:**

- get mold fabricated to immediately start making scaled models

### **Goals to be Accomplished Earl Next Semester**

- receive permanent mold
- continue more in-depth mechanical testing; begin degradation testing
- begin scaling down screw to normal size for feasibility

### **Problems:**

- things are currently running smoothly

