

## Implant-retained Finger Prosthesis

**Week 1** – September 7 to September 13, 2007

**Team Members:** Dustin Gardner – *Team Leader*  
Karen Chen – *Communicator*  
Richard Bamberg – *BSAC*  
Allison McArton – *BWIG*  
Alex Kracht – *Communicator*

**Client:** Greg Gion

Medical Art Prosthetics, LLC

Phone: 608-833-7002, Email: g.g.gion@sbcglobal.net

**Advisor:** Willis Tompkins, PhD

Professor – Dept. of Biomedical Engineering

Phone: 608-263-1581, Email: Tompkins@engr.wisc.edu

### Problem Statement

The focus of this project is to improve the connecting mechanism which holds prosthetic fingers onto people's hands. Currently, the only method used in the United States is a slip-cover which holds the prosthetic on by suction. New approaches have been used in other countries which involve using an implant where the finger will connect to the hand to increase motility and usability of the prosthetic finger without having the prosthetic fall off. Our team is to design a connection apparatus which will successfully meet these goals.

### Restatement of Team Goals

The team will meet with the client sometime after September 23 to receive information about this subject and define clear semester goals. Some more work needs to be done yet in terms of researching the project and discussing the preliminary product design specification (PDS).

### Individual Goals

Dustin	Research of finger prosthetics, preliminary brainstorming, send out progress report.
Karen	Research of finger prosthetics, preliminary brainstorming
Richard	Research of finger prosthetics, preliminary brainstorming, deciding team meeting time.
Allison	Research of finger prosthetics, preliminary brainstorming, setting up team webpage.
Alex	Research of finger prosthetics, preliminary brainstorming, contacting client and advisor.

