

**Title:** BME Outreach Program Development

**Team Members:** Tara Mahan and Kristin Myers

**Advisor:** Willis Tompkins

**Client:** Steven Zwickel

**Date:** October 31, 2001- November 6, 2001

**Problem Statement:**

To develop an outreach program for Biomedical Engineering that will showcase new technology, present educational and career opportunities in Biomedical Engineering, and encourage students (in grades K-12) to study math and science.

**Restatement of Team Goals:**

1. Obtain ergonomic backpack study from colleague
2. Continue to develop background information on selected concepts
3. Contact more suppliers of needed materials
4. Confirm date for observation
5. Arrange shopping date
6. Obtain phone numbers for 4<sup>th</sup> grade teachers from Professor Zwickel

**Summary of Accomplishments:**

1. Submitted request to observe 4<sup>th</sup> grade classroom (with the help of Mitch Tyler)
2. Called local toy stores to find sun print paper (photophysiology kit)
3. Contacted teacher at local school to arrange observation for Friday
4. Reviewed presenters' manuals used in the Engineering Outreach program for other topics
5. Reviewed ergonomic backpack studies written by students in EPD 397
6. Worked on the development of the presenters' manual (see attachment)
7. Obtained more contacts and resources for radiology presentation development

**Statement of Team Goals:**

1. Go shopping for BME Outreach materials on Thursday night or Friday morning
2. Observe 4<sup>th</sup> grade class on Friday
3. Continue development and organization of information within the presenters' manual

**Project Schedule**

Please see attachment for project schedule. Schedule will be changed as needed as progress is made throughout the semester.

## **Difficulties**

-Funding complications

- Discover Card: Cannot be used on-line
- Only can reserve card for one day
- Difficult to know where and when to obtain all materials

-Waiting for 4<sup>th</sup> grade teachers to reply (Thankfully, we asked Mitch to provide contacts from his daughter's school so that we could arrange the date soon. Hopefully, it will work out for this week. )

## **Activities**

- Meeting for planning: 2 hours
- Searching to find school contacts: 30 minutes
- Contacting local stores to find photophysiology kit: 30 minutes
- Development and research for presenters' manual: 6 hours
- Review of current presenters' manuals: 4 hours
- Review of ergonomic backpack studies: 2.5 hours (Kristin)
- Meeting with Professor Tompkins: 30 minutes (Tara)
- TOTAL HOURS FOR REPORTING PERIOD: **16 hours**
- TOTAL HOURS FOR SEMESTER: **82.75 hours**

(NOTE: Unless otherwise noted, both Tara and Kristin participated in all activities listed.)