**Inspiratory and expiratory flow meter**

Client: Christopher Green, M.D.

Team Members: Andrew Eley (Leader)  
Sarah Offutt (Communicator)  
Darshan Patel (BSAC)  
Eric Bader (BWIG)

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**Problem Statement**

Our client desires a peak inspiratory and peak expiratory flow meter in a single device to monitor for symptoms of asthma and vocal cord dysfunction. It should measure flows up to about 700 liters per second for adults, be cheap, durable, and easy to use with clear measurement readings.

**Last Week’s Goals**

- Finish construction of flow meter
- Test flow meter with a rotometer

**Summary of Accomplishments**

- Our team met on Friday, we met with our advisor then walked to ECB and continued construction on our flow meter – cut rod to proper length and cut notches for spring. First attempt at cutting slot for indicator arrows and epoxied springs in place.
- The Wednesday meetings were canceled due to Thanksgiving break.
- We met the following Wednesday in ECB to finish construction on the prototype – cut slits, assembled indicator arrows, epoxied end caps.
- Team met on Thursday at 2:30 in the Medical Sciences building to test flow meter. Team met again at 8:00 to prepare for presentation.

**This Weeks Goals**

- Give presentations at ECB for the project fair
- Finish final paper, design notebooks

**Difficulties**

Some difficulties in cutting the slit and testing. Took a lot of time.

**Activities**

Team: 3.00 hours  Team Meeting on Friday
Sarah Offutt 8.50 hours  Building prototype, testing, notebook, presentation
Andrew Eley 7.75 hours  Building prototype, presentation, notebook, progress report
Darshan Patel 8.25 hours  Building prototype, testing, notebook, attended BSAC
Eric Bader 8.50 hours  Building prototype, notebook, update website
Expenses: none