**Project Title:** Creation of a live cell-imaging device for use with laser-based confocal microscopy. Project #28

**Team Members:**
Jon Sass – Team Leader
David Schurter- Team Leader
Bryan Fondrie – Team Communicator
Dan Jonovic – BWIG
Matt Kudek – BSAC

**Client:**
Lance Rodenkirch
W. M. Keck Lab for Biological Imaging
Center for Neuroscience
Phone: 265-5651
email: larodenk@wisc.edu

**Date:** 11/30/06 – 12/7/06

**Problem Statement:** Creating a chamber to monitor the Carbon Dioxide concentration and maintain a steady 5% CO2 concentration.

**Individual Goals:**
Jon Sass – Research CO2 Sensors, develop circuit
David Schurter- Research CO2 Sensors, develop circuit, progress report
Bryan Fondrie – Research Materials for the chamber, develop chamber
Dan Jonovic – Research Materials for the chamber, develop chamber
Matt Kudek – Research Materials for the chamber, develop chamber

**Summary of Team Accomplishments:** We met with our client and got the go ahead to build the chamber and circuit. The materials to create the chamber were obtained as well as most of the circuit components. This project may be continued next semester to include perfusion.

**Statement of Team Goals:** Begin building chamber and circuit prototypes.

**Rough Project Schedule:**
9/8/06-10/20/06 – Meet with client/ brainstorming/ research.
9/22/06 – PDS Due.
10/20/06 – Oral presentations, mid-semester reports due.
10/20/06-12/8/06 – Work on project, create prototype.
12/8/06 – Poster Presentations.
12/13/06 – Notebooks and final report due.
12/15/06 – Meet with advisor.
Difficulties: Exact circuit design.

Activities, week to date:
Jon Sass – buy circuit supplies, meet with circuits professor, building circuit
David Schurter– buy circuit supplies, meet with circuits professor, building circuit; progress report
Bryan Fondrie – build chamber
Dan Jonovic – build chamber
Matt Kudek – build chamber

<table>
<thead>
<tr>
<th>Name</th>
<th>Hours (Week)</th>
<th>Hours (To date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jon Sass</td>
<td>2.5</td>
<td>26.5</td>
</tr>
<tr>
<td>David Schurter</td>
<td>2.5</td>
<td>26.5</td>
</tr>
<tr>
<td>Bryan Fondrie</td>
<td>2</td>
<td>25</td>
</tr>
<tr>
<td>Dan Jonovic</td>
<td>1</td>
<td>22</td>
</tr>
<tr>
<td>Matt Kudek</td>
<td>2</td>
<td>26</td>
</tr>
</tbody>
</table>