

**Title:** Lung Tissue Chamber for the study of Asthma

**Names:** Lung Tissue group

**Date:** 11/23-11/30

**Problem Statement:** To design a working model to mimic the lung that incorporates living endothelial and epithelia cells in their natural orientations found within the lungs. The system will provide an effective model of the human lung to aide in the research of Asthmatic response to antigens and other lung diseases.

**Restatement of Team Goals:** As a group, to create and agree upon a design to effectively solve our client's problem. To develop the exact specifications of our designs: sizes, volumes, cell surface area, etc.

**Accomplishments:** We have developed a final design. Drawings of the design have been made.

**Team Goals:** Have the complete specifications completed as well. Develop a guideline for building the final product. Begin building a working model

**Project Schedule:** Met with clients twice. Beginning to formulate design possibilities. This will be the process for the next weeks. Choose or create a new workable design. Have group agree and develop a new final design. Build the product

**Difficulties:** The machine shop in M.E. is very backed up with project orders. I will try the physical plant machine shop.

**Activities:** Megan: Built model, met .75 hrs with group  
Adam: emailed client ?s, met .75 hr with group  
Eric: 2 hr blood flow  
Tom: 1 hr. construction process, 2 design drawing  
Kevin: 2 hrs design drawing  
Andrea: met .75 hr with group  
Rafael: 2 hr blood flow  
Barry: 1 hr. design specs