

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

**Names:** Lung Tissue group

**Date:** 10/19/01-10/26/01

**Problem Statement:** To design a working model to mimic the lung that incorporates living endothelial and epithelial cells in their natural orientations found within the lungs. The system will provide an effective model of the human lung to aid 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. Divide the group into research and development group. Create and finalize a time-line for the semester.

**Accomplishments:** The design idea has been finalized, in as much, as to the definite direction of our product. We have split into groups: materials, blood flow, sealing of the filters. A time-line has been implemented

**Team Goals:** Have a final design accomplished. Make progress in materials research and ordering.

**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.

**Difficulties:** We have not decided on a specific design idea yet. The manufacturing of our small-scale project may prove to be difficult.

**Activities:** Tom: 2 hours of design  
Megan: 1.5 hours design, .5 research on sealants  
Eric: 1.5 hr o-ring research  
Rafael: 1hr o-ring research  
Andrea: 2 hr, biomaterial research  
Barry: .75 group meeting, .5 hr research  
Adam: .75 group meeting, 1 hr article research  
Kevin: 2hr, biomaterial research