Electrical Engineering Research Project: Balloon Catheter Sensing Device
Project Leader: Steven Lee

Semiweekly Status Report of 17 September 2005

Goals decided at last project status meeting and status

Goals decided at last meeting	Met?
Draft complete Wetmore Research Grant proposal	yes
Place order for dielectric assortment, glues, and tools	yes
Complete initial hardware capactitance-measuring module	yes
General course coordination: project leader sent meeting reminders in advance, secretary sent minutes on time, etc.	yes

If any not met, what happened? Also, include updated timeline

Include problem that occurred, identify possible solutions tried

Other actions completed since last time

See attached Wetmore Grant proposal

Lee: Installed Matlab 5 onto laptop
Wrote skeleton code

Brooks: Tried rubber cement vs. silicon rubber vs. latex sheets as dielectrics
Silicon rubber gives good signal range (20-50pF), but is very delicate
Latex sheets provide adequate signal range (2-10pF), and is durable

Issues

Could not get rubber cement model to work. Tried cleaning with solvents, tried preheating.

DSP cadets are fooling around with the independent study gear

Hours logged – 2 week period from last meeting

Brooks	23	EE492
Lee	14	EE491

Proposed goals to be met by next status meeting

- Rewrite grant and submit
- Create a permanent PC board and mount all components on it
- Package capacitance measuring box and RS232 converter neatly into project box
- Develop test codes in Matlab and connect to RS232 multimeters so that Matlab can directly read external voltages
- As always, complete general course coordination: project leader pre-arranges meetings, secretary publishes minutes on time