

EE 491 Weekly Report | Dec15—02 | Weeks 8 & 9 3/9/2015

Project Title: Human Dielectric Equivalent Model	
Advisor: Jiming Song	Client: Honeywell
Members (roles): Jacob Schoneman (Team Leader), Cory Snooks (Communications Leader), Andrew Connelly (Webmaster), Stephen Nelson (Concept Holder).	

Weekly Summary:

The group finished the first version of the design document and held a meeting with the advisor. Multiple layers of plaster of paris were put onto the torso mold and it should be ready to separate this week. Two copper clad boards were used to make a parallel plate capacitor.

Meeting Notes:

Starting measurement can be of the conductivity. The leads for the parallel plate capacitor can be on the edge or in the center. We need to find a material/method of creating a semi rigid form for the torso model. Need to find a converter file to convert from blocks to tetrahedral.

Pending Issues:

Need to research material to use for the frequency bands of interest. Finding materials that are accurate and will not deteriorate. The group needs to test the parallel plate capacitor on materials with known values to test its accuracy.

Plans for Next Week:

Meet with advisor on 3/30/2015. Meet with group on Thursday. Continue with materials research. Start testing materials with the parallel plate capacitor. Separate the mold and create a torso with a saline gelatin mixture.

Individual Contributions (This Week):

Jacob Schoneman: 7 hours
Cory Snooks: 9 hours
Andrew Connelly: 4.5 hours
Stephen Nelson: 8 hours

Total Contributions for the Project:

Jacob Schoneman: 30 hours
Cory Snooks: 33.5 hours
Andrew Connelly: 26.75 hours
Stephen Nelson: 35 hours