**Dec12-04 Ultrasound Brain Imaging System**

**Weekly Report - 6 (Feb 21 – Feb 27)**

Group Members: Justin Batcheler, Jon Driggs, Francis Ferrer, Allen Kellar, Richard Page, Amairani Tapia

Faculty Advisor and Client: Dr. Timothy Bigelow

**Accomplishments of the last week**

* Jon:
  + Found suitable-looking hardware configuration.
* Richard:
  + Found a patent for the high-voltage amplifier.
  + Found Texas Instruments gain amplifier chips.
* Francis:
  + Found possible vendor for transducer in Philips Healthcare.

**Plan for coming week**

* Work on list for parts to order by this summer.
* Continue to work on the electrical design of the ultrasound.

**Pending issues**

* Work on having a single channel working.

**Individual contributions – identify specific tasks accomplished**

* Richard, Amairani and Allen:
  + Continue to work on the design of the high-voltage pulse generator
  + Search Cadence design files for transistors that can be used in physical implementation.
* Justin and Francis:
  + Continue to work on the design of the T/R switch.
  + Search Cadence design files for diodes and other components.
* Jon:
  + Research National Instruments Digital I/O cards.
  + When hardware is found, prepare a quote for Dr. Bigelow.

**Meetings**

* Group meeting on Wednesday with everyone in attendance.