

The class was held from 1:00-2:30 PM.

**Equipment on hand**

- Microphone, preamp, soundcard and laptop
- Edgerton Center amplifier and CD player
- IAP class speaker (the one with the crossover)

**Electrical Representation of Sound** - Give up at 1:30

- Demo: Microphone and oscilloscope
- What sound is; propagation through air
- Frequency composition of sound
- Switch to PC based scope and FFT

**How Speaker Drivers Work** - Give up at 2:00

- Meaning of voltage and current - hold off on the relationship between them
- Magnetic force
- DC vs. AC signals
- Voice coil and magnet structure
- Cone size and excursion requirements

**What is all this equipment?** - Give up at 2:15

- Stages of conversion: Digital, analog, preamp, amp, speaker
- Comparison of recording to playback process
- How a microphone works
- Draw expanding stack of components for each stage
- How to use the scope and function generator

**What to do with our time** - Class ends at 2:30

- About last year's project
- Speaker options: pair of speakers, one nice speaker, subwoofer
- Electronics: amplifier, preamp, EQ, etc
- Topics to focus on: room acoustics, crossover design, surround sound, car audio
- Anything else we feel like talking about