**Progress since 403**

* Fabricated more channels
  + This is an ongoing process since only 1-2 chips can be fabricated at a time, unlike our electrodes which can be fabbed many at a time
* Beginning image processing for last semester’s experiments
  + Get statistical figures to see how well our device(s) are performing
  + Key performance indicators: true positives, true negatives, false positives, false negatives
  + Image processing software ImageJ – replacement for manually counting droplets

**Progress to make this semester**

* Perform experiments manipulating voltage applied to electrodes
  + Have experimented with 5mV at 5kHz
  + Want to also experiment with 500mV-1V
  + Don’t think the voltage should exceed 1V at risk of burning up the electrodes
* Perform experiments manipulating electrode finger width/distance
  + 5um, 10um, 20um width and spacing of electrode fingers
* Analyze experimental results via ImageJ
* Determine best parameters
* Fabricate device using best parameters discovered in our experiments
  + Perform final experiments and validation