Meeting with Dr. Fridman (11/18/19)

Questions

1. To Calculate 300 $\mu C/cm^{-2}$ per phase, do you just integrate your signal to get the charge injected and then divide by the surface area of the electrode right?
2. **What determines the number of 300 $\mu C/cm^{-2}$? Is this a hard rule? Are there ways to push past this threshold safely**
3. Is the number 300 $\mu C/cm^{-2}$ with a bias?
4. Is it necessary to do potentiometer experiments to verify the waveform I use isn't doing electrochemistry?
5. **Is there a rule of thumb excitation threshold? I found threhsolds of ~1 nC per phase.**
6. Everything is reported in phase, but what's effect of the length of the phase? On the excitation thresholds? On the damage thresholds?
7. What damage does bubbling hydrogen/oxygen gas do to the brain?

My electrodes:

1. 32-64 Channels
2. 176 μm^2 GSA Pt-Ir contacts
3. with a charge density of 283 $\mu C/cm^{-2}$, I get Charge/phase of 0.5 nC.
4. 50µm within stereotrode or tetrode group.