# 01/31/2019 - Capstone Meeting Notes

**Discussions:**

* Who’s presenting -
* What are we including in the report?
  + Show basic equations - discuss assumptions
  + Show basic model
* We have let andrew know we need a prototype - waiting for structural to finish limit testing
* Most important data via Andrew - battery case temperature at best and worst case scenarios
* Questions for Tretheway next meeting - Work hard meeting 2 weeks out
* gitHub usage
* Our hand calc implies that there is a uniform temperature of the entire piece (Tretheway)

**Progress:**

* Parker
  + Talked to Andrew: key deliverable is discovering the steady state temperature of the batteries in the satellite. Analyze worst case at angle of 90
  + Delegating extra work to vacuum chamber to ensure completion date by April 1
  + Reviewing 2D ANSYS sim with Jeremy
* Katherine
  + Worked more on the eDX courses - on the Homework for section 4
  + General review of thermo equations, but not enough time to delve into what we discussed last week.
  + Also will likely want to duck out slightly early from the meeting (i've got a midterm directly after)
* Tom
  + Showed Kathleen (UTEAP) our equation. Math major confirmed we need to linearize the higher order term.
* Jeremy
  + Still working on Section 3 of edx
  + Created 2-D single plane heat transfer model.
* Griffin
  + Still working on the EDX learning modules. Hoping to be done by next week.
  + Do we Know who is planning on presenting next week? I can if needed. I can also help create the powerpoint as well.
  + Next Week I plan on just continuing EDX course unless there's anything else that needs to be done
* Tyler

**Action Items:**

* **Create a presentation**
* **Create questions for Tretheway for February 7 meeting**
* **Keep working on hand calcs**
* **Modify 2D model**

**Important notes for Ansys:**

* <https://confluence.cornell.edu/display/SIMULATION/ANSYS+Learning+Modules>
* ^ this link was posted in one of the ANSYS learning modules, has some relevant-looking ansys tutorials for radiation and 3D conduction - Katherine

**Important dates:**

* February 5th - 492 presentation
  + Presentor(s) : Jeremy (possibly Tom)?