

Todo

- ☐ Write dissertation proposal topic title and abstract and submit to Dr. Atwater.

211115-19

- ☐ Give journal paper to Dr. Atwater.
- ☐ Meet with Dr. Horstemeyer.
 - ☐ Find copper in-service life performance application.
 - ☐ Finish ICME bridging poster.
 - ☐ Draw up #CPSPP relationship map.

220603 - CERE Conference Room

My Own Questions

- ☐ Classes
 - ☒ ENGR 725 - Continuum Mechanics
 - ☒ ?? ENGR 798 - Teaching Practicum || ENGR 987 - Dissertation Research ??
 - ☒ Switch these around.
 - ☐ Ask another committee member (Dr. Cho) to help with their course.
 - ☒ ENGR 837 - Materials Characterization
 - ☐ **Completed DCP returned by July 1 (Harley, Lillian Mikaela lmharley@liberty.edu)!**
- ☐ PhD Timeline
 - ☐ Am I still on track for May '23?
 - ☐ Check if school funding changes if my graduation date changes.
 - ☒ Can I propose this summer?

Summer Goals

June

- ☐ Finish Python codes
 - ☐ Can eventually correlate to Sam's measures for time of impact and energy.
- ☐ Write up kinematics journal

- ☐ MA: Look for a journal specializing in the setup and running of experiments for control process to collect data from high-speed footage.
- ☐ Frame the article in terms of applying the methods onto non-measurable phenomenon (unlike Sam having actual accelerometer in his striking hammer which would validate the numerical process).
- ☐ Look to get within 90% of empirical data: be reasonable.
- ☐ Turn the methodology of particle tracking into its own paper.
- ☐ MA: Look into this Dr. Schwera conference

July

- ☐ Begin ISV modeling of single-site impacts
 - ☐ modeling of crank-slider mechanism (with ISV-Damage and Recrystallization)
 - ☐ Want $f(\text{tube length, angle, ball parameters}) \rightarrow \text{GUI}???$
 - ☐ Use Abaqus to find deformation and impact energies.
- ☐ Compile literature review and annotated bibliography

August

- ☐ Dissertation Proposal