**Reading Assignment #7**

Due October 30, 2017

Answer the following questions on The University of Idaho’s Clean Snowmobile Challenge Team 2017 Design paper. The best way to get answers that you can’t find in the text is to talk to older members!

**Questions:**

1. When is the required submission time/date for the 2018 UICSC Design Paper? How do we submit it? What specific sections do we need to include?
2. What chassis did we take to competition last year? What chassis will we be taking this year? Why did we upgrade chassis?
3. If this paper was not given on the Mindworks site, where else would you be able to find it?
4. How did we do last year, ranking wise, for our Design paper? Who won the event? How close were we to winning?
5. What values did we report for weight, E-score, and J1161 sound magnitude in our paper?
6. What were the main projects of the team last year? Give their names and a brief description of what we changed and their results.
7. What was the calibration strategy for the snowmobile last year (summarize the section into a way that you understand). How will that differ from the calibration strategy we’ll use for the 2018 year?
8. Looking at Figure 4 in the paper, why do we have numbered red dots on the plot?
9. Why did we move the catalyst from the end of the exhaust to in front of the muffler? Were there any problems with this new location?
10. What is a power transmission coefficient? How was it used? What will we use it for this year?
11. Looking at the muffler, in what ways did they improve upon the stock system? If they did so well why are we redesigning it again this year?
12. How much did our MSRP increase from stock to final configuration? How did we do in the MSRP event last year?
13. Find one mistake in the design paper, whether it be content, spelling, or poorly formulated thoughts/ideas*. Hint: “there aren’t any” is not an acceptable answer.*