**Challenge 4: Technical Writing & Calorimetry**

*ASEN 2012 ~ 27 Sep 2019*

The purpose of this challenge is to practice applying technical writing principles to content relevant for your calorimetry project report.

Two prompts are provided below. You will write an **individual** response to the first prompt. When directed, you will trade with your group member to receive edits. When critiquing each other’s work, use the principles and editing tips provided in lecture. Then, incorporate the suggested edits as appropriate. This process will be repeated throughout the challenge time. If you feel that you have written your final response, move on to the second prompt and repeat the process.

As a reminder, your emphasis should be on implementing the three key principles of technical writing and the four principal problems that were covered in this week’s lecture.

Some resources that may be useful:

* BCcampus provides a useful overview of calorimetry in the first part of [this write-up](https://opentextbc.ca/chemistry/chapter/5-2-calorimetry/). The methodology and application of calorimetry are covered in your ASEN 2002 lab and ASEN 2012 lecture, but feel free to use this and other outside resources if you wish to refresh your knowledge or dig deeper into calorimetry. **Remember that you must cite all external resources.**
* The American Institute of Aeronautics and Astronautics provides a [template for technical writing](https://ae.engr.ku.edu/sites/ae.drupal.ku.edu/files/docs/AIAA%20Papers%20Template.pdf). This template will be used in your Project 1 deliverable.

Note: This challenge will be based an individual submission, so you will not include a group number in your file name. NAME YOUR FILE AS FOLLOWS:

* Section 1: Challenge4\_S1\_{last name}\_{first name}.pdf
* Section 2: Challenge4\_S2\_{last name}\_{first name}.pdf

**Upload a typewritten PDF document to Canvas to complete the challenge.** If you hand-write your response to the prompt during class, you are still expected to submit a typewritten version to Canvas by Tuesday at midnight.

Challenge author: Hugo Stetz

**What is the purpose of calorimetry? Why are calorimetric methods and analyses relevant and useful to us as engineers?**

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**In ASEN 2012 we put significant focus on error and uncertainty analysis. What are some potential sources of error or uncertainty in calorimetric data collection, and how might an experimenter account for them?**

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