2018 Che3460 – Assignment #3: Cover Art OR Movie Project
Due on April 25th at midnight

For this assignment, you will do one of the following (A or B):

A) Cover Art – Individual Assignment

Here you are asked to make a beautiful cover-art image for a scientific project. The scientific topic/concept of the cover art is of your choosing. Must be a finished product, although beauty is subjective, there are various graphical "glitches" that are objectively unacceptable for cover art (blurriness, "firefly" pixels in Cycles rendered images, and a range of other graphical artifacts). Typically, a cover image will require a printing resolution of 600 dpi, which for an 8" x 8" image would be 4,800 x 4,800 pixels (at least). For this assignment, you are only required to create an image with a pixel resolution of 3,000 pixels x 4,200 pixels (or greater, if you prefer, those are the minimum dimensions). Any software can be used to make the cover art image, but the end result should be *striking*.

Note: There is no presentation component. The cover art must be self-explanatory. You are welcome to provide additional commentary to the class, but the image must stand on its own.

Email cover art image to: wilmer@pitt.edu

B) Movie Project – Group Assignment (2-4 people)

Here you are asked to make a 3 minute video (approximately 5400 frames at 30 fps) on a scientific topic/concept of your choosing. The movie should be educational and explain a concept clearly to the audience. The movie should also be engaging, and the use of music, sound, and narration are highly encouraged (ultimately it's up to you to decide what is "engaging"). The recommended resolution is 640x480 pixels (this is referred to as "SD" resolution with a 4:3 aspect ratio). If you are confident that you have allocated enough time for rendering and post-processing, you are welcome to use a higher resolution (640x480 pixels is a minimum). You can Google "What resolutions does YouTube support?" to find other video resolutions. Any software can be used to make the movie, but Blender is of course recommended (you can also use combinations of different software packages).

Note: There is no presentation component. It must be a self-contained video that explains a scientific concept clearly (i.e., someone can watch it on YouTube without your standing over their shoulder and explaining anything). You are welcome to provide additional commentary to the class on the process that went into making the video.

Email YouTube link to movie to: wilmer@pitt.edu