

1145-P5-1062 **Emerald T Stacy*** (estacy2@washcoll.edu), Chestertown, MD. *Inspiring Wonder in Calculus Through Student-Designed Projects.*

A Differential Calculus class was given a term-long assignment to do a deep dive into a topic that connects Calculus to a field they are passionate about. Students wrote project proposals, participated in the peer review process, completed multiple drafts, and presented their final project to their classmates. Students were given freedom to interpret the prompt, and they were encouraged to seek out advice from professors in other departments to learn how Calculus impacts their field. The goal of this project is for students to recognize that mathematics, and problem solving in general, is a creative endeavor. From Navier-Stokes equations to tomography, students pushed past the boundaries of what they thought it meant to take a Differential Calculus. Examples of student work will be presented, illustrating how students observed the wonder within mathematics. (Received September 18, 2018)