

Polar-ICE Sci-I Project Summer 2016 Educator Workshop

Student Science Investigations

Students participating in Sci-I Project 2016 will have the unique opportunity to conduct their own investigations related to polar topics and data. The students will work on these investigations throughout the winter and spring 2017 and then present their results and findings to polar scientists, Sci-I Project team, and to one another at the Student Polar Research Symposiums.

This component of the Sci-I Project 2016 encourages students to develop questions and an inquiry-based scientific investigation that builds upon the knowledge they have learned about the science of the research mission. The goal of the Student Polar Research Symposium is to excite and engage middle and high school students about the poles by providing a platform for students to share their science investigation results with one another and polar scientists. This allows the students to act as science communicators and peer educators. Students will work in groups no larger than 4 to conduct their investigations, prepare their posters, and present their results.

We have compiled some resources to assist you and your students in conducting scientific investigations.

- The “Understanding Science – how science really works” website produced by University of California, Berkeley is a helpful resource when developing a scientific investigation (<http://undsci.berkeley.edu/index.php>).
- “Ready, Set, Science: Putting Research to Work in K-8 Science Classrooms – Learning from Science Investigations” Sarah Michaels, Andrew W. Shouse, and Heidi A. Schweingruber; National Research Council (2007) (available for a free download or to purchase a paperback copy at the National Academies Press website, http://www.nap.edu/catalog.php?record_id=11882)