

## Polar-ICE Sci-I Project Summer 2016 Educator Workshop

### Sci-I Project Work Components & Expectations

**Work Pre-Workshop:** You will receive an invitation to join the Sci-I Project 2016 Google Folder, in which all documents will be placed. Below are recommendations we have of things to review prior to the workshop:

1. Complete pre-survey: <https://www.surveymonkey.com/r/TeacherSurvFinal>
2. Read about PAL-LTER from the provided summary of the project and things to check out on the PAL-LTER website.
3. Watch the video Antarctic Edge: 70° South (<https://beyondtheice.rutgers.edu/>)
4. Read/re-read the NGSS Appendix F: Science & Engineering Practices descriptions (provided in Google Folder). Especially review “Asking Questions” section before Monday.
5. Rank your top 3 choices of the provided Science Investigation Questions. If you would like more information before the workshop, you can research more about aspects of the questions that you chose.
6. Review the prepared PAL-LTER data sets that we will be using during the workshop. You do NOT need to do anything with the data, but if you are interested in poking around we wanted to make it available to you.
7. Write a reflection on what you know about and what you want to know more about “scientific questions” before Monday’s scientist conversations.

**Work Post-Workshop:** We are excited to be working with all of you for the next year on the Polar-ICE Sci-I Project 2016 as we learn from and grow together as a learning community committed to bringing polar research to more students. Following the workshop, we ask that you:

1. Write a reflection about what the process of science means to you post the workshop and how to integrate it into teaching throughout the year with all of the other requirements you have for teaching.
2. Utilize the project Google folder to share ideas, approaches, activities, etc. to:
  - Integrate authentic process of science into the classroom
  - Bring the start-to-end process of an open-ended investigation to students
  - Help kids be successful at finding and using online data
  - Incorporate scientist’s personal stories and perspectives on the process of science
  - Integrate NGSS Science & Engineering Practices throughout the year
  - Add reflection and application time into each step of teaching
  - And any others that interest you...

**During the Year Commitments:** During the 2016-17 school year, the Sci-I Project will include the following components:

- Active communication with the Sci-I Project team & completion of evaluation instruments
- Incorporating the work from the June Educator Workshop into your classes
- Assist students in designing open-ended, polar-related investigations, writing mini-proposals, conducting investigations, developing and presenting science posters, and selecting representative posters at your school (1 to be judged by scientists, and 1-2 to be hung for all to experience)
- Attend Student Polar Research Symposium with 50-60 students and 1-3 posters per school:
  - February 24, 2017 at California State University Monterey Bay
  - June 1, 2017 at Rutgers University – New Brunswick