



Research Program Icebreaker

Sunday, June 05, 2011
10:00 a.m. - 3:00 p.m.

This workshop serves as an introduction to student research at Cabrillo Marine Aquarium.

SCHEDULE

- 10:00 A.M. CMA RESEARCH PROGRAM INTRODUCTION
12:00 P.M. LUNCH
12:45 P.M. EXPERIMENTAL TECHNIQUES
2:00 P.M. DESIGNING A RESEARCH PROPOSAL

10:00am-12:00pm CMA Research Program: using a public laboratory facility and library for marine research projects

Cabrillo Marine Aquarium offers exciting opportunities for students of all ages to get involved in research projects for no fee, based at the Aquarium and mentored by staff. Introduction to this program will be given by research staff and will include a tour of research facilities and the Virginia Reid Moore Marine Research Library onsite where students can explore a broad collection focused on marine science.

12:45pm-2:00pm Experimental techniques from previous student projects

Previous student projects based in the laboratory will be used as demonstrations for how staff can work with students of varying educational background levels and assist learning using tools and techniques matched to the student's understanding. Use of laboratory versus field projects to answer common student questions will be addressed so teachers can help guide students towards appropriate types of investigation for their interest.

2:00pm-3:00pm Working with students on research proposals and collaborating school requirements with lab schedules

Students may have studied the scientific method before or never mastered this method of questioning, but staff always reinforce the method as the basic steps for any student to fill out a research proposal. Staff demonstrate how long this process takes with different students and common challenges encountered as well as previous successes involving teachers to help get students to understand the importance of preparation for a good project.

Researchers help to raise awareness about marine conservation by discussing their experiments with the public during open hours.