

MAOS

MONTEREY ACADEMY OF OCEANOGRAPHIC SCIENCE

Excellence in Math and Science

FALL, 2012/2013



Since 1994, MAOS has been helping academically driven Monterey Peninsula students achieve their dream of college. For more information, please contact us at maosmontereyhigh.org

CONGRATULATIONS TO THE MAOS CLASS OF 2012 ON THEIR HARD WORK AND SUCCESS!

The MAOS class of 2012 continued an 18-year MAOS tradition of being accepted into the college of their choice. Although not every MAOS student elects to attend a four-year university, those who do can be confident that completion of the MAOS requirements will greatly aide in college acceptance. The 52 graduating MAOS 2012 seniors were accepted into almost 200 four-year institutions, including such diverse schools as Cal Poly SLO, Massachusetts Institute of Technology (MIT), University of Southern California (USC), United

States Naval Academy, University of Hawaii, BYU, Yale, Point Loma, John Hopkins, and virtually all University of California campuses and many California State Universities. Eight of the graduates opted to attend Cal Poly, making that school by far the school of choice for MAOS graduates (and also the alma mater of MAOS teacher Gary Childs – Go Mustangs!)

Furthermore, MAOS students received over \$175,000 in local and international scholarships and

grants, not including the U.S. Naval Academy appointment of \$400,000 awarded to our own Alexander Anicetti. MAOS staff welcome any college questions from current MAOS seniors and families. For more information on the college application process, or scholarships and other special programs, please contact the MAOS counselor, Patty Deal at pdeal@mpusd.k12.ca.us. Monterey High college and career counselor Doreen Gray is also available to help. Congratulations to the class of 2012!

The two photos on this page are from the MAOS STEMS field trip to the Monterey Bay Aquarium Research Institute. Our 11th graders were given an extensive tour of the facilities, with a focus on deep-water exploration. Students were also encouraged to consider MBARI for their MAOS internships. Thanks to MAOS parent Kim Reisenbichler and former Friends of MAOS board member George Matsumoto, and the staff of MBARI for giving our students a wonderful experience!



UPCOMING MAOS EVENTS:

- Oct. 22: Freshmen to Cannery Row and the Great Tide Pool
- Nov. 6" Sophomores to Yankee Point.
- November 29: Juniors to Cal Berkeley
- December 6: Seniors to the Pinnacles
- NOW: CSU applications are available and being accepted. Seniors are encouraged to apply early! Applications close Nov. 30.
- NOW: University of California applications are available. The window for submitting completed applications is Nov. 1-30.
- TBD: MAOS freshman parent night. Our MAOS counselor, Patty Deal is working on her annual parent night. Stay tuned for more information about this important event!
- Early December: Senior Internships are due and presentations will begin. The annual Mentor Tea will take place on January 23, 2013.
- Applications for incoming freshmen are due January 10, 2013.



NEW SCHOOL YEAR BRINGS NEW MAOS FIELD STUDIES

MAOS students enjoy at least one curriculum related field study or college visit per quarter. First quarter field studies were:

- 9th grade students studied tide pool life to reinforce concepts learned in their Biology 2 class.
- 10th grade students evaluated water quality and studied ethno-botany as it related to their Chemistry classroom curriculum.
- 11th grade students were privileged enough to hear a presentation from Monterey Bay Aquarium Research Institute (MBARI) scientists and then to tour the facility, getting up close and personal

- with both the Ventana ROV and MBARI's new research vessel, the Rachel Carson. Students were encouraged to seek internships at MBARI. For more information, visit www.mbari.org.
- 12th grade students visited Cal Poly San Luis Obispo, where they toured the campus and received admissions information. Former MAOS students, and current Cal Poly students, met the seniors on the tour and gave them their impressions of college life.
- See the side bar for a list of upcoming field studies!

SAT Prep Class

Mr. Cook will be offering two SAT Math prep classes beginning October 25th. The classes will be offered on Thursday nights. The first class will run from 5:30-6:30pm and the second will run from 6:30-7:30pm. The classes will meet each Thursday and run for six weeks. To sign up email Mike Cook at mcook@mpusd.k12.ca.us. The class will have limited enrollment, so please sign up asap. The class will meet in the STEMS lab (room 68).

Additional Math Tutoring

There is additional Math tutoring by Mr. Cook available before and after-school on Tuesdays and Wednesdays. Tutoring will be in room 73A and run from 7:20-7:45 am and 3:00-4:00 pm every Tuesday and Thursday. Tutoring will be available for all math classes and laptops and access to the YouTube instructional videos/video lectures will be available for Algebra II, Math Analysis and to a limited extent, AP Statistics. Tutoring will be on a drop-in basis so there is no need to register or email or call beforehand.



MAOS SURVEY ON ITS WAY!

MAOS staff has put together a brief parent and community survey. The information gathered will be very helpful in planning future events, increasing parent participation in the program, and securing grants. The survey will be sent out to parent email accounts via Survey Monkey. If we do not have a current email for you, please contact Mr. Von Saltza at gvonsaltza@mpusd.k12.ca.us with your updated information. Results of the survey will be shared in future MAOS newsletters. We very much appreciate your help with this survey!

Thank you from the MAOS team for all of your continued support!



WHAT'S HAPPENING IN MAOS CLASSES?

In Biology students have completed a unit on Experimental Design and one on Ecology. They are now working on the cell. Students are practicing with microscopes, learning how to prepare biological slides, and looking at a plant cell and an animal cell (from the inside of their cheek).

In Chemistry students have completed a unit on Matter, where they compared solids, liquids, and gasses at a molecular level. They should be masters at drawing models of atoms. The last lab compared sodium, magnesium, calcium and lithium to discover trends on the periodic table. Most will probably remember the reaction of sodium for many years to come!

In Biotechnology students read a newspaper article titled "The demise of guys", written by a Stanford professor. His thesis was that computer games are rewiring guys' brains. Students researched the topic and wrote a persuasive letter to the editor giving their opinion supported by research and experts' opinions. They are now designing an experiment. Additionally, they are using Shmoop, a computer program to learn PSAT strategies and to practice for the upcoming PSAT or future SAT tests.

In English II students have recently completed a unit on Shakespeare's Much Ado About Nothing, which culminated in some very interesting performances of scenes from the play (see picture above!). AP English students have completed Hamlet and will be reading Heart of Darkness next, which means they will be very depressed by Thanksgiving break...

According to Mr. Hare, In AP Government they are very busy electing a President, turning the economy, balancing the budget, fixing the crisis in the Middle East, and eliminating world hunger if they have time. So it's been a slow first quarter in AP Government.

Stay tuned for more MAOS class updates!