



tackling today's world of environmental and medical challenges

Bridge to the Geosciences



On April 20, Oak Crest hosted the Citrus-JPL "Bridge to the Geosciences" group visit. "Bridge to the Geosciences" grant, awarded to Citrus College in December 2015, is a three-year project funded by the National Science Foundation. The program is designed for all STEM (science, technology, engineering and

mathematics) majors at Citrus College. The "Bridge to the Geosciences" cohorts participate in four "geomodules" that include the environmental, atmospheric, planetary and ocean sciences.

Students learn about Geosciences and have the opportunity to participate in research with scientists at:

- Oak Crest Institute of Science (Monrovia, CA)
- Center for Dark Energy Biosphere Investigations (Catalina Island, CA)
- Jet Propulsion Laboratory (Pasadena, CA)
- University Corporation for Atmospheric Research (Boulder, CO)

Through these experiences, participants develop an understanding of critical local, national and global geoscience issues and how higher education and government work together to address these issues. The geomodules and on-campus workshops also provide opportunities for participants to further develop scientific literacy and expand their ability to effectively communicate science ideas to a variety of audiences. Students have the opportunity to network with professionals and receive career advice and mentoring.



Oak Crest Campus East

Oak Crest has completed its expansion at 120 W Chestnut Ave, transforming a car mechanic space into two furnished 600 sq. ft.

News & Events

READY TO GET READY

Summer invasion at Oak Crest will soon be upon us. We have many programs starting during the summer here at Oak Crest. We are collaborating with the City of Monrovia for the Junior Researcher Summer Academy. This program is open to middle school students with a priority to Monrovia residents. The program offers a two-week session where students spend the mornings performing laboratory work and the afternoons participating in recreational activities and related activities (team building, field trips, etc.). To find out more about it, please visit www.cityofmonrovia.org.

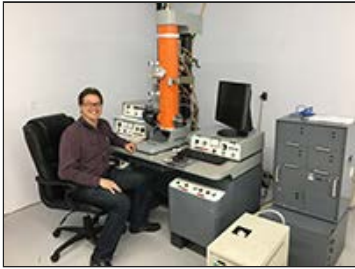
There are 3 sessions available:

Session 1: June 25 - July 6
Session 2: July 9 - 20
Session 3: July 23 - August 3

Our annual Summer Internships will begin June 18. This eight-week program is open to high school and college students and gives them the opportunity to acquire skills and experience in all aspects of practical laboratory work. This program has been filled.

HAMASKAKI SCHOOL VISIT

Karka Kizuka, Sofia Rivera, and Debbie Sanchez visited the Hamasaki Magnet School in East Los Angeles. Our researchers spent the day with the students telling them about science and careers in science. They brought



laboratory bays within two months. The first bay houses the imaging core (www.oak-crest.org/scientific-cores/imaging-core/), the second bay is a chemistry lab, which can be used for our outreach programs or rented out to startups.

The imaging core just received a Zeiss EM10 transmission electron microscope (TEM) equipped with a CCD camera, kindly donated by the University of California, San Diego. The TEM dramatically improves our imaging capabilities and the turnaround time for our internal research and for external service projects. Together with our atomic force microscope (AFM), ultramicrotomes, cryo-preparation and our fluorescence and phase contrast light microscopes, Oak Crest can image DNA, viruses, bacteria and tissues from millimeter to nanometer resolution, capabilities that rival the imaging facilities of much larger research institutes in the area. These technologies are accessible to our students, academic collaborators and the local startup and small business community. The imaging core will also start offering short courses in biological specimen preparation for TEM, making us one of a few teaching facilities on the West Coast.

OCIS 4th Annual U19 Meeting



Oak Crest hosted its 4th Annual U19 (NIAID NIH Award Number U19AI113048) meeting on May 9th and 10th. Colleagues and friends from Johns Hopkins Medical Institute (JHMI), Vanderbilt, UTMB, UCSD, UCLA, Scripps, the Miriam Hospital, and CDC arrived on Tuesday May 8th and attended a casual reception and dinner at 38 Degrees Ale

House in Monrovia. Wednesday's activities were held at the Arboretum, which provided a natural and inviting setting for talks on grant-related topics. Peacocks could be heard chiming in with their approval. The Lime Truck provided excellent eats accompanied by Jim Jediken's jazz quartet at Oak Crest for the evening social in our lab's parking lot.

On Thursday everyone moved to the Monrovia Canyon Cabin to continue the meeting. The cabin is located in Monrovia Canyon Park which is on 80 acres of beautiful hiking trails, a waterfall and a nature center. Some participants took advantage of the setting and could be seen taking a hike on the trails during the lunch break. The highlight of the talks on Thursday was definitely a presentation by Rose Hills Fellows Sylvia Pere and Ivan Villanueva. Their topic was "Preliminary Enzymatic and Cytokine Evaluation of Various Human Vaginal Matrices". Many attendees commented on how well done and professional their presentation was and needless to say we are very proud of our Rose Hills Fellows! The entire U19 meeting this year was a resounding success. And a big THANK YOU goes out to Kirsten and Wendy for organizing everything. Everyone thoroughly enjoyed themselves.



Oak Crest Celebrates Our
20TH ANNIVERSARY



microscopes, tissue culture dishes and glassware to show the students what it might be like to work in a laboratory setting.



Sofia prepared a set of Petri dishes containing very realistic photos of bacterial cultures on agar. These were very eye catching and popular with the students. The students really enjoyed themselves as did the Oak Crest researchers.



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ANNOUNCEMENTS

RESEARCH, PUBLICATIONS AND SPECIAL EVENTS

Highlights from
the MASA
Junior Project
fair, our own Dr.
Paul Webster
was one of the
many esteemed judges.



Paul Webster