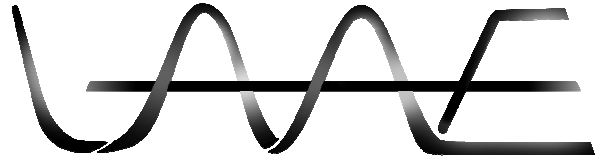


Pg 2... New Electric Vehicle



Pg 3... Reaching for nothing but the best



WHERE FUTURE ENGINEERS
AND LEADERS ARE FOUND

Another Year Strong

By: Teresa Chen

On November 18, 2010, the Los Altos Academy of Engineering held a successful advisory meeting, an annual conference where various representatives from companies serve as advisors to determine whether the high school engineering program can continue. During advisory, any concerns about curriculum, safety, or projects are addressed.

This year, the members included Mitchell Kodama, Richard Cheng, Rudy Ybarra, Aashish Dalal, Laurie Marshall, Tom Knipe, Derek Mayeda, James Watson, and Ruben Seawright. Not only are there the advisors, but a panel of students also attend the meeting and listen to the advice of the members. The students that attended this year included Kevin Chang, John Chen, Teresa Chen, Daniel Cheng, Jeffrey Choi, Andy Lopez, Frank Martinez, Marena Ray, Danny Shin, and Stephanie Sosa.

The 2010 advisory meeting began with the advisors signing in and completing a job market survey. As others arrived, they were given an informal tour by the team leaders who explained the academic and hands-on aspects of the program. After a light dinner in the downstairs area of the academy, the meeting was commenced by newly nominated Chairman Richard Cheng. A PowerPoint presentation was made by Teresa Chen on current projects including *HICE*, Solar Cup, DARPA Urban Challenge, Pete Conrad, and Bridge Competition. Daniel Cheng followed, giving details on a new project that LAEE is initiating, an electric vehicle that is in progress.

After the presentations, the advisors asked questions and gave comments directed at



(Left to Right) Team Leaders Danny Shin, Frank Martinez, Marena Ray, Andy Lopez, John Chen, and Kevin Chang pose for a quick picture before the meeting.

the academy's projects and curriculum. In regard to the academy's new electric vehicle, Tom Knipe approved of our newest project, commenting that "more and more, people are beginning to adjust to electric vehicles, which are going to be the future [of transportation]." Aashish Dalal spoke about the advantages of students that enter the program with the intention of pursuing a career in the engineering field. Noting the similarities between our projects and the vehicles made by professionals, he noted that "it pays to be here." After addressing safety concerns and budget issues, several of the advisors gave practical suggestions to LAEE students who would enter the engineering field. Mitchell Kodama remarked that two significant advantages in the engineering field are having presentation and writing skills. In conclusion, the advisors unanimously voted to continue the program and the meeting was adjourned, ending a successful advisory.

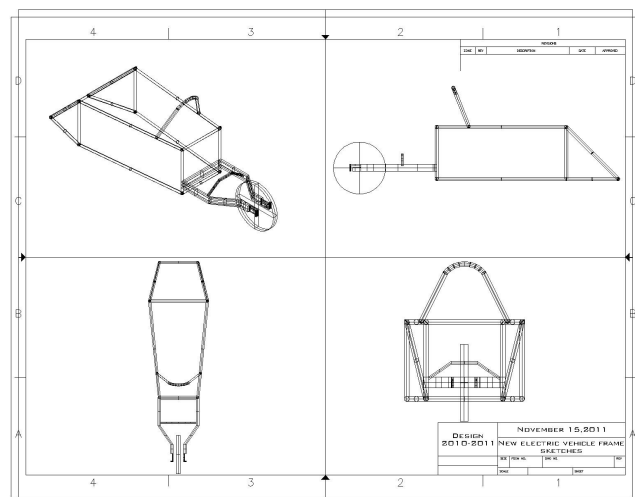
Up and Coming

By: Daniel Cheng

The Los Altos Academy of Engineering is initiating a new project for the 2010-2011 year that is based on fundamental electric engineering. Andy Lopez, mechanical team leader, describes it as “an electric vehicle that brings us back to the basics of everything. The goal of this year is to go back to simple welding and aligning. Sometimes we leave the basics so far behind that we forget how to do it. Infusion and HICE are so complex that our new incoming members do not understand them. We decided that it was time to go back to the very beginning. By learning everything all over again, we will be able to teach it to future members of the Academy.”

The basic structure of the vehicle has recently been drawn. Our design team is still involved in minor adjustments to the plan. The vehicle will have a tube frame chassis, with three wheels: two wheels in the front and one wheel in the back. It is a 24 volt system powered by two 12-volt lithium ion batteries. This will make our vehicle dramatically lighter than some of our legacy vehicles and more efficient. Because

we have never used lithium ion batteries, this will be a significant learning experience for returning and new students alike. Once the vehicle is completed, it is our expectation that it will be raced in an Electrathon race in 2012. This new vehicle differs from our last electric vehicle, High Voltage, in that this new vehicle is designed to be more energy efficient. Our goal is to obtain a minimum speed of 15 MPH and to run as far as possible using the least amount of energy. As students are continuously in the design process, it is our desire for the entire vehicle to be completed and ready for testing by the end of this current school year.



An Ambitious Dream

By: Stephanie Sosa

Each year, the Los Altos Academy of Engineering creates a solar boat to compete in the Solar Cup at Lake Skinner in Temecula Valley. Students attend technical workshops to begin the building process and later complete the boat in LAEE with the rest of the students. After the boat is completed, students from different teams collaborate to add the electrical and mechanical aspects of the boat.

Unlike previous years, the LAEE team has stepped up their game and the boat is ahead of schedule. Compared to last year, when we were still sanding the boat in February, we have advanced much farther. Students have already completed the body of the boat, which is ready to accommodate the rest of the parts.

The goal for this year is to complete the boat by March 22 so that students will have an opportunity to thoroughly test it before the competition. In the seven years that LAEE has participated in the competition, not once have we had the luxury of testing the boat before May. With this year's ambitious goal, the LAEE team hopes to complete the boat on time and fix any problems so that we have the best boat possible to enter in the competition.



Los Altos Academy of Engineering 2010-2011



Top Row: Jacob Domingo, Thomas Shaihor, Ivan Wang, Andres Lopez, John Chen, Brent Spivey, Daniel Cheng, Justin Nuin, Kevin Chang, John Wu, Danny Ahn, Frank Martinez

Middle Row: William Wang, Samuel Chia, Nicolas Pung, William Cervantes, Jeffrey Choi, Mario Gonzalez, Erin Wittenberg, Joey Guzman, Jaryd Reartes, David Avila, Danny Shin, Shawn Wong

Bottom Row: Brittney Turnbow, Zack Garcia, Crystal Chan, Darren Eng, Alanna Ho, Ayana Usui, Stephanie Sosa, Teresa Chen, Jeremy Ho, Marena Ray, Jordan Fuentes

Staff Writers:

Daniel Cheng

Teresa Chen

Stephanie Sosa

Editors:

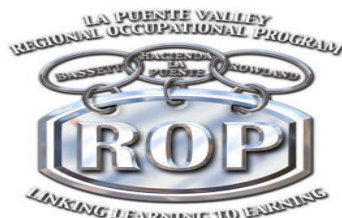
Mr. Rockwood

PR Team

Mr. Richter

Publisher:

Stephanie Sosa



15325 E. Los Robles Avenue
Hacienda Heights, CA 91745
Tel: (626) 330-1096

Please visit our website:
www.lasv.org

Email us at:
pr@lasv.org

Mark your calendars:
March 2: Optimist International Oratorical Contest
March 22: Goal for a Completed Boat
April 9: Open House
May 13-15: Solar Cup