

**Manufacturing Technology
Annual Advisory Committee Meeting Minutes
November 19, 2008, Los Altos High School**

1. Meeting called to order: 7:09 pm
2. Introduction
 - a. Meeting Chairman Nomination: Tom Knipe
 - b. Introduction of Members in Attendance:
 - i. Laurie Marshall- Haddick's Auto Body and Towing
 - ii. Tom Knipe- Southern California Edison
 - iii. Norm Ong- Treasurer of Booster Club, Software Programmer
 - iv. Mitch Kodama-Retired Engineer
 - v. Nikki Kodama-Northrop Grumman-Alumni
 - vi. Stanley Chu-North Mark Capital- Alumni
 - vii. David Vedder-La Puente Valley ROP
 - viii. Derek Mayeda- Mechanical Engineering
 - ix. Richard Cheng-Universal Space Lines- Alumni
3. Review of Previous Year's Minutes
 - a. Approval of minutes: Approved by Nikki Kodama
Second Approval by David Vedder
4. HICE Presentation

LAAE's latest project, HICE. HICE stands for Hydrogen Internal Combustion Engine, Presentation will be given by Public Relations Team Member, Eduardo Barrera.
5. Current Projects and Updates:
 - a. Solar Cup [Solar Boat]:
 - i. Placed 5 out of 41 entries
 - ii. Plans to participate in the 2009 Solar Cup, utilizing E-tek or Lynch motors
 - iii. Ambitious Goals, take boat out in December
 - iv. Team Advisor: Ed Richter
 1. Statistics:
 - a. 5th Sprint Race
 - b. 6th Endurance Race
 - v. The solar boat will be a project for new members of the Engineering Academy and students from the Pre- Engineering Class
 - b. Botball:
 - i. Regionals
 1. 1st Place overall and in all divisions
 - ii. Team Structure
 1. Builders
 - iii. Only two returning members
 1. Programmers
 2. Program robots to accomplish certain tasks
 - iv. This year and next year are just working and planning years.

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- c. Middle School Robotics:
 - i. 2008 Competition
 - 1. Sponsorship moved from HLPUSD to LPVROP
 - 2. Competition site moved to Industry Hills Expo Center
 - 3. Includes students from four school districts: Bassett, Hacienda La Puente, Rowland, Walnut Valley as well as St. Marks from the private school sector. [200-250 students]
 - 4. Larger competition, around 30 teams, good turnout
 - 5. Lego Robots
 - ii. 2009 Competition
 - 1. May 19th, 2009 at the Expo Center
 - 2. Not sure on a time yet.
- d. DARPA Urban Challenge:
 - i. LAAE not competing in 2010 DARPA Urban Challenge
 - ii. Students are still building and working on the test vehicle
 - 1. Software is currently being written by Mark Aguilar and John Weng
 - 2. Alumni helping students: Will Zheng and Richard Cheng
 - iii. Team not planning on entering DARPA Urban Challenge yet
 - iv. Scion xB delivered January 16th, 2008
 - 1. Steve Hatanaka could not come down to see the program but he sent a representative
 - 2. There was media coverage by the Tribune
- e. Conrad:
 - i. The Pete Conrad Spirit of Innovation is a competition that promotes the exploration of new innovative ideas in the fields of personal spaceflight, lunar exploration, and renewable energy.
 - 1. Our team is entering in the personal spaceflight field of the competition
 - a. The team must create an innovative concept of personal spaceflight and assemble a business plan that will attract the public to our product.
- f. Shell Eco Marathon:
 - i. Planning on entering 2 vehicles
 - 1. HICE
 - a. Full composite chassis
 - b. Bottom half of the body is already infused
 - c. Plan to make second half in December
 - d. Team should make a budget for their projects so they can fundraise accordingly.
 - 2. Infusion
 - a. Infusion is still up and running
 - b. Buying a new fuel cell

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- c. If infusion does not qualify for competition, we have permission from Shell to run it on the speedway although it is not competing.

6. Safety:

a. Equipment Status:

- i. Mechanical: mounted hydrogen tanks, placed new tape around machines
- ii. Composites: replaced old fire extinguishers with new ones, buy more

b. Safety Issues:

- i. Space because there is not enough [last year's proposal for Composites]
- ii. Composites- dust control, more respirators
- iii. Storage for the old stuff [Spray/grinding booth]
- iv. Fire Marshall to go through and know what to do in a fire [Monthly Safety Meetings]
 - 1. Little meetings every week within a team
- v. Require a Safety Project
- vi. Make mini quizzes
- vii. Sanitizer Unit**

7. Manufacturing Technology Program Review

- a. Create a budget plan and schedule for each project [prepare for the working world]

8. Project Proposals and Concerning Issues and Ideas

- a. Look for a place to put a "Museum"-make it a project for students

9. Closing Statements

10. Vote to Continuation of Program

- a. Motioned to continue the program by Tom Knipe, seconded by Nikki Kodama, approved unanimously.

11. Meeting Adjournment

- a. Meeting adjourned at 8:35 pm