SoCal

MOMENTUM

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MOMENTUM is published each month to recognize the activities of the Southern California Section of SAE International, its members, and the industries they represent. The opinions expressed in this newsletter are not necessarily those of SAE International or its members. Alternative viewpoints are welcomed. Please submit all articles, artwork, and photographs to the editor 8 weeks prior to the Section Meetings.

PIT CREW FOR A DAY:
With NASA at the California Speedway

The National Auto Sport Association (NASA) will host SoCal SAE university students for "Pit Crew for a Day" this March 21st and 22nd at the California Speedway in Fontana, CA. The NASA Season Opener will sponsor cold pit training for college students.

The California Speedway will provide an interesting venue, with its high – banked oval as well as the challenging switchbacks of the inside road course. Total length: approximately 3 miles per lap. NASA stock Mustangs, Camaros, and Factory Five Racing (FFR) Cobras will range between 40 mph and 150 mph every lap. The race cars enter Turn One (a 90 degree turn) often racing six wide, and a new race starts every 40 minutes, all day long. This is semi-pro racing, with people getting their start, people who have raced for years, and some people still honing their driving skills.

The "Pit Crew for a Day" teams will compete in two full race days during the weekend, with most of the crewing done before and after the road course competition. Friday will be a Pit Crew training session for including technical inspection, data retrieval, warm up, qualifying, and full races on Friday and Saturday.

CalPoly Pomona FSAE team with Dr Karen Salvaggio and Mike Peters

SoCal SAE teams will crew for Dennis Flaherty, Flaherty Racing, and Dr. Karen Salvaggio, Thunder Valley Racing. For more information on how to be part of the PIT CREW, contact Dennis Flaherty dflaherty@socal.rr.com or Mike Peters, Chaffey College Auto and Aviation Technology Harbor Occupational Center mike@protrackracing.com, 310-490-2810.

So Cal SAE Receives the President's Citation for Outstanding Section/Chapter Partnership

The President's Citation is the highest level award given to one SAE Section with the best overall program. SoCal SAE is proud to have received this award, as it is a reflection of the hours of hard work and devotion that each board member has given this past year. Congratulations to all, and keep up the good work in 2008!

SoCal SAE STPO Supports Cerritos College IDRC Grant

ECONOMIC & WORKFORCE DEVELOPMENT
through the
CALIFORNIA COMMUNITY COLLEGES

Jim O'Neill, SoCal SAE Vice Chair STPO, is working with Cerritos College to implement its IDRC (Industry Driven Regional Collaborative) Grant, as a participant on their Advisory Committee. The goal of the IDRC grant is to develop a curriculum for the automotive aftermarket manufacturing certificate program.

All of the proposed classes were approved by the committee with the exception of one prototyping class, which the committee felt needed additional development.

The IDRC program is funded by the California Community Colleges Chancellor's Office and is designed to "meet the demand for new and emerging growth sectors," and to support programs that provide "short- or long-term responses customized to the duration of the need."

For more information contact Jim O'Neill, *Chino Autotech Inc.*, jim@chinoautotech.com

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Long Beach Grand Prix

DRIFT RACING

FORMULA DRIFT HOLDINGS, LLC has offered SoCal SAE collegiate students an opportunity to shadow DRIFT racing top teams and participate in technical inspection sessions. On March 29 and April 10, the students will have an opportunity to see how DRIFT scrutinizes the race cars to make sure they are not "cheating," and that they meet all safety requirements. A DRIFT rulebook was sent to participating students. For more information contact Anna Phillips at socalsae0607@gmail.com.

FSAE Showcase

Toyota Grand Prix of Long Beach will feature several races, and April 20 marks the third year that SoCal SAE coordinates with the Committee of 300 to showcase FSAE university student vehicles.

SoCal SAE will help coordinate the participation of eight universities in the 2008 Long Beach Grand Prix event. Two vehicles will be showcased in the Committee of 300's paddock area and all students will be treated to a tour, lunch, and will assist with ticket taking duties.

Contact Anna Phillips, socalsae0607@gmail.com for an opportunity to be part of the SoCal SAE Long Beach Grand Prix event.

Volunteers Needed!

FSAE West is looking for volunteers for the June competition. Help is needed for Car prep and Tech Inspections; Cost, Design, and Presentation Judges; and Dynamic events workers (flagger, radio, etc.). To volunteer, contact Karen Stewart at Kjrs90@yahoo.com, or call her at (818) 723-1358. For questions, contact Richard Lloyd at rlloyd1975@socal.rr.com.

Toyota Establishes SAE/David Hermance Hybrid Technologies Scholarship

This year, one $2,500 non-renewable scholarship will be awarded to a university sophomore pursuing an engineering degree through an ABET accredited program. The applicant must address their interest in pursuing an engineering career in the field of Advanced Technology Vehicles, which include hybrids, fuel cells, alternative fueled vehicles, advanced powertrains, etc. Students must be citizens of the United States and have at least a 3.5 grade point average to be eligible. This scholarship was established in 2007 through a contribution from Toyota, in memory of the late David Hermance, to recognize his contributions to hybrid and advanced technology vehicles in North America. You may recall October 2006,

SoCal SAE presented David Hermance in a forum to discuss the *FUTURE POWERTRAINS AND FUELS*. This presentation took a look at hybrid electric vehicles, plug-in hybrid electric vehicles, and ethanol fuels.

David Hermance was the Executive Engineer for Advanced Technology Vehicles at Toyota Technical Center (TTC), located in Gardena, California. TTC, Toyota's North American R&D center, is a division of Toyota Motor Engineering and Manufacturing, North America (TEMA). Mr. Hermance was responsible for advanced technology vehicle communication for the North American market, and advanced technology vehicle emission regulatory activities in California.

For more information contact Marge Milligan at SAE, milligan@sae.org or 1-724-772-7158.

Upcoming Opportunities

GM Hybrid & Electric Vehicles Presentation

Tuesday, March 18th
5:30 pm – 7:00 pm
El Camino College
16007 Crenshaw Blvd.
Torrance, CA 90506

GM Mechanical Engineering Technical Lead, Mark Korich, will present current and future GM Hybrid and Electric vehicles. The Hybrid Tahoe will be displayed.

Please RSVP with Cindy Chou, VC Meetings & Tours:
cindychou.sae@gmail.com
Event map and parking permits will be provided once registered.

CSUN AeroDesign West 2006 Mac Short

2008 Mac Short Competition

What is Mac Short Competition?
The Mac Short Competition honors that entrepreneurial spirit of Southern California aviation pioneer Mac Short. This is a student competition intended to support engineering design education in Southern California universities.

Simple
Submit the Design Review that you have prepared for a class, competition or personal project. Contact Tanya Eberhard at teberhar@uci.edu for an outline.

How Much Can I Win?
1st Place: $1,000; 2nd Place: $750; 3rd Place: $500; and $100 for the top entrant from each school.

When and Where
March 23, 2008: Submit your Powerpoint Design Review to Tanya Eberhard at teberhar@uci.edu .

April 25, 2008: The top three finalists present their Design Reviews at the SoCal SAE Section meeting at Wally Parks NHRA Museum.

SoCal SAE supports you
You'll be able to get help from past judges and recent graduates. They can give you advice on the scope, depth, content, and even listen to you practice your presentation.

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March Events

Date	Event	Contact
3/18/2008	Section Meeting: GM Hybrid & Electric Vehicles	Cindy Chou
3/21/08-3/22/08	Pit Crew for a Day with NASA	Anna Phillips
3/23/2008	Mac Short Competition: Submission Deadline	Mike McCarthy
3/24/2008	ARIM Scholarship Deadline	Laila Guessous, Guessous@oakland.edu

SoCal SAE Momentum goes virtual

SoCal SAE Momentum is now available as a link on the SoCal SAE website http://socal.sae.org

Please contact Doug Kruse, VC Communications should you want the Momentum mailed.

Although the hard copy has been available for the past 10 years, the cost of production of a 10-month newsletter has hampered SoCal SAE's ability to expand its meeting venues, present certain speakers, and recognize collegiate, 'STPO, and AWIM students.

Thank you for your continued support of SoCal SAE!

SoCal SAE is always searching for better ways to improve the information flow to SoCal SAE members and look forward to your assistance as a member, business, and collegiate chapter.

SoCal SAE Governing Board Meetings

SoCal SAE governing meetings are held on the first Tuesday of the month beginning at 6:30 p.m., unless otherwise indicated on the SoCal SAE website http://socal.sae.org. The next meeting will take place on April 1st, 2008.

Please join us at the Toyota Technical Center 1630 West 186th Street, Gardena, CA 90248
http://maps.yahoo.com/broadband#mvt=m&gid1=20497361&q1=1630%20west%20186th%20Street%20Gardena%20ca%2090248&trf=0&lon=-118.307369&lat=33.861881&mag=3

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