



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the ELECTRIC AUTO ASSOCIATION (EAA), 2031 Ladera Ct., Carlsbad CA 92009 Ph: 760.753.2949

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Regular Meetings: 4th Tuesday of every month (January thru November), at 7:00 pm,
Location: San Diego R.T.C. (Pearson Plus), at 4001 El Cajon Blvd. and Interstate 15
Place: In the cul-de-sac between the RTC building and I-15
Next Meeting: Tuesday, June 27, 2006 @ 6 p.m.
Topics: 16th Annual EVAOSD Barbeque & EV Project Display (**Bring your EV, HEV or project**)
Speaker: A social - mixer between attendees as we eat and discuss electric vehicles

The President's Message

Our **May EVAOSD Meeting** was well attended with 32 guest and members. Following is a summary of the meeting:

Voting Items EVAOSD Members that were in attendance for the meeting voted for and approved the following items.

1. Change EVAOSD banking to EAA account with Petty Cash of \$200 to be held by Treasurer Russ Lemon for incidentals.
2. A San Diego Education Chapter was approved to be started with three student memberships to be funded by EVAOSD for the first year.
3. Voted to continue the annual barbeque for our June meetings. In summary being a non-profit our funds are collected & allocated to share the EV message. Funds for the BBQ need to be collected from individuals for that reason as in the past years. Members felt that an average of \$5 per person would support the cost.

Announcements John Coplin has been able to obtain a used EV pickup truck that Steve Cox is going to take over and get it back on the road. Jerry Pohorsky explained to all that the "Skate Across America" EEvent had been postponed because the skater had broken his leg and the EEvent will be rescheduled. We discussed the Clean Cities Congress, and 5th EVer Chapters Meeting that were just held and the EV

Conversion Workshop that is coming up June 19, 2006. "Who Killed the Electric Car?" the EV1 movie is scheduled to be released nationally Wednesday, June 28, 2006.

Presentations: Russ Lemon shared three lesson plans that he will be giving during the C2EC2T (EV Conversion Workshop) discussing some of the planning & engineering that goes into an EV conversion. Then Jerry Pohorsky, EAA Board Member PHEV - SIG Chairman shared his PHEV presentation that he gave during the 5th EVer All EAA Chapters Meeting earlier in the month.

Since our last meeting we partnered with UCSD Cal PIRG Student Chapter to have a Clean Freeway Capable Car Show. Our show was well received with nine cars: we had 2 Fuel Cells; 3 battery EV; 3 hybrids and a car that is going to be an EV. Thanks again to everybody that came on a work/school day to share the EV message.

Keep in mind that our June Barbeque & EV display meeting will **start at 6 P.M.** on June 27, in an effort to maximum day light. **In the cul-de-sac between the RTC building and I-15.**

Note: If you arrive late the building may look dark and closed for business. We will be behind the building eating your food.

The EV Grin

"EV'ers know about the grin that someone has just after driving an EV." Here are some notes for the San Diego EV Community.

Calendar of Events:

6/19-30 EV Conversion Workshop
Notes are in newsletter below.

6/23 SDRFC Meeting 10 AM – 1PM

6/24 L.A. Film Festival – EV1 Movie & Show

6/27 @ 6 P.M. EVAOSD Annual Picnic & EV Display

6/28 "Who Killed the Electric Car?" EV1 Movie to be released. <http://www.whokilledtheelectriccar.com>

7/25 EVAOSD Meeting - Monster Garage TV Show Building an EV Dragster w/ 420 power tool batteries "From V8 to V28 power"

8/22 EVAOSD Meeting – Video of X1 EV presentation to EVA- Silicon Valley - www.wrightspeed.com

9/26 EVAOSD Meeting – EV Adapter Plate Installation & Plug-in Partners National Campaign

9/27 & 28 Solar Conference, San Diego

10/12 National AFV Day Odyssey - San Diego Region activities will be held at the RTC



A link to two EV Drag Races with a \$440,000 Porsche Carrera GT and a \$160,000 Ferrari 360 Modena is www.wrightspeed.com. The X1 electric vehicle bolts from the starting line without a combustible sound-and without the noxious, global warming pollutants that normally spew from a sports car's tailpipe. (Watch the news story)

And a good source for information on electric vehicles is <http://www.eaaev.org/Flyers/index.html> from our affiliate Electric Automobile Association (EAA).

However, if you want to have some fun here are some sites to checkout; <http://www.calcars.org/bettah/>; <http://www.whokilledtheelectriccar.com>; or this page will give you 0-60 in 3 seconds with the X1 did I mention that it is an EV <http://www.megawattmotorworks.com/display.asp?dismode=article&artid=235> plus several other videos at the bottom of the page. Note that the "From V8 to V28" is about the Monster Garage Show using 420 power tool batteries.

Abran Quevedo is holding an EV Conversion Workshop like no other...

Last summer Mr. Q. a High School Auto Shop Teacher attended an Electric Vehicle Conversion Workshop for teachers in Turlock, CA. He has been driving and showing the VW Rabbit that they converted last year and this year he is holding the EV Workshop at his High School in San Dieguito Academy. Given the latest NEWS for cost of gasoline, global warming worries and supporting both sides of the war the response has been overwhelming. In the beginning we were thinking in terms of hopefully ten individuals for the workshop with a maximum of twenty students. We were most interested in having High School Auto Shop teachers that would share the knowledge.

Well in summary we have had over forty people sign up for the class with thirteen being Auto Shop teachers. Abran Quevedo (workshop leader) has decided to turn no one away (our version of No EV enthusiast Left Behind) and to have two separate workshops going on at the same time. The results are that we have individuals coming from Oregon, New Mexico, Ohio, Florida and Arizona. Besides the strong attendance of teachers we have individuals that are gender and background mixed from students to lawyers. Did I mention that the entire workshop is funded? Yes, all of the attendees will be on full scholarships. Students will need to purchase books and Tee shirt if they desire them. The workshop has been developed to include different types of EV conversions not being restricted to the VW Rabbit that is being converted during the ten day workshop.

For more info - <http://www.campbellot.com/electric%20vehicle/little%20red.htm>



From last years results of the EV Workshop *** To this challenge to be completed in 10 days.

EVAOSD Gives Thanks to all that help us along the road...

Ken Koch of KTA Services for donating 2006 catalogs to EVAOSD members.

Jerry Pohorsky EAA Board donated two DVD Monster Garage & X1 – Both are EV related

Larry Emerson donated \$10 towards the San Diego Education Chapter – Petty cash fund.

Paul Marshall, Keith Van Sickle, Clayton Becker, Lee Campbell & Rob Wilder - UCSD Car Show.

Many have and are helping Mr. Q. with the workshop and he said that he can not thank you enough.

Lee Campbell will be showing his solar assisted S-10 EV during the Del Mar Fair Wednesday, 6/20.

John Coplin for getting an abandoned EV that will be put back on the road.

Thank you to ALL for you support and participation.

Taking Turns ‘- - -, _ _ _ Messages from our members . . .

SDhybrid IS BACK FROM THE DPG IN MESA, AZ!!!!

The San Diego Sustainable Mobility Team held together over the nine grueling days of 100+ heat in the desert of AZ. This competition was truly a test of our teamwork and our ability to 'engineer under pressure'. Our success in the competition is only possible with support from the community. We are making it possible for engineering students at SDSU to participate in competitions of this magnitude for years to come. Check the competition results on how we

did. *Most Improved Team* - University of Tennessee/San Diego State "Moving up for the finish"

Our next opportunity to display our EV will be 10/22/06 during this National AFV Day Event. San Diego's representation will be hosted by SDRFC and held at the RTC.



NEWS ALERT for the San Diego Area...

While visiting the RTC on Wednesday, June 14, Film crews were tapping segment for the Today Show to be shown on Sunday, June 18, 2006. Talking to the staff four other crews have been by to report on the only California public filling station for E85 Ethanol. Can you believe that California only has 4 of the E85 fueling stations and 3 are private?

Dave Cutter, Village Energy & Mark Kearns are headed to the L.A. Film Festival to capture a report on the Preview of the "Who Killed the Electric Car?" movie with green carpet and EV display on June 24, 2006. They will share their report and photos during the June 27, EVAOSD Meeting.

Dave Cutter, Village Energy & Mark Kearns, Video Services are also documenting the EV Workshop from start to finish. There will be news reports from Mark Maynard, Union Tribune and of course live TV news.

Just weeks before the premiere of "Who Killed the Electric Car" (opening June 28, initially in NY and LA then in many other locations), PBS Now!, the TV News Journal formerly hosted by Bill Moyers, ran a 20+ minute interview with Director Chris Paine. <http://www.pbs.org/now/shows/223/index.html#here>

The New York Times documentary unit is producing a one-hour program on geo-politics, the environment, and alternative energy solutions, to be broadcast on the Discovery Channel on June 24, 2006. The program will be reported by Pulitzer Prize winning foreign affairs columnist, **Thomas L. Friedman** and will explore his ideas for a "Geo-Green Alternative." This multifaceted approach addresses the problem of Americans financing supporters of terrorism through our gasoline purchases, and points to viable options for decreasing global warming while strengthening the U.S. economy by stimulating American industry and innovation. **As Tom puts it, "Green is the new red, white, and blue. It's not just for treehuggers anymore, but for all patriots, strategic thinkers, and geo-politicians."** <http://www.msnbc.msn.com/id/13232195/site/newsweek/>

The EV Conversion Workshop (C2EC2T) has been reported around the world (EVWorld.com) and is headed to a newspaper and television newscast in your home.

IRS Extends Tax Credit to Alternative Fuel Vehicle Conversions Could EV be next?

The IRS will now treat vehicles converted to natural gas as new vehicles, making them eligible for the alternative fuel motor vehicle tax credit. The new IRS ruling extends the credit to all conversions, regardless of when the vehicles were first placed in service. Any converted vehicle placed in service as a natural gas vehicle after January 1, 2006 is eligible for the tax credit, providing that the conversion system manufacturer has received a certificate of conformity from the EPA or the California Air Resources Board. *Source: IRS Ruling: Alternative Fuel Vehicle Tax Credit*

Bank of America Employees Get Major Cash Incentives to Buy Hybrids

The Bank of America has announced a new incentive program for its 21,000 employees in Boston, Los Angeles and Charlotte, N.C., offering \$3,000 in cash if they buy a fuel-efficient hybrid car. The bank's Chief Administrative Officer in Charlotte, Steele Alphin, said, given Bank of America's size, it should lead efforts to protect the environment. The bank plans to evaluate the cash incentive program in the fall to determine if it should be offered nationally to all 202,000 of its employees. *Source: Bank of America to offer incentives to buy hybrids, WFSB TV News/Boston*

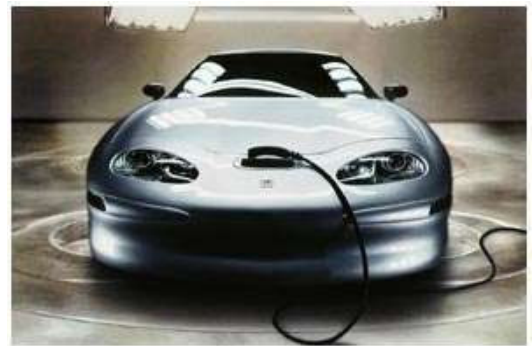
Minnesota Governor Tim Pawlenty has signed a **law promoting plug-in hybrid flexible-fueled vehicles**. The car runs primarily on electricity and renewable fuels like ethanol power the engine. The new law instructs the state to buy plug-in hybrids on a preferred basis when they become available and also it encourages Minnesota State University at Mankato to develop a flex-fueled hybrid. A task force has been created from business, government and utility representatives to develop a plan to build the cars in Minnesota.

This marks the end of our printed & mailed newsletter additional EV related stories are available in our electronic edition at www.evaosd.com under meetings.

June 24, 2006 at 12:45pm

THE LOS ANGELES PREMIERE OF WHO KILLED THE ELECTRIC CAR?

Finally, the Untold Story
Opens June 28th in LA and NY
(All Major US Markets to Follow)



WHAT: The Red-Carpet Premiere of WHO KILLED THE ELECTRIC CAR? at the 2006 Los Angeles Film Festival (LAFF): Starring Tom Hanks, Mel Gibson, Ed Begley Jr., Peter Horton, Alexandra Paul and directed by Chris Paine, narrated by Martin Sheen and produced by Jessie Deeter with Executive Producers Dean Devlin, Tavin Marin Titus and Richard D. Titus

Immediately following the screening the filmmakers will host a "Green Day" fair in the parking lot adjacent to the theater. The unique event will feature "green" vendors and informational booths from entities including hybrid car companies, environmental organizations, **The Environmental Media Association, Energy CS, Plug-In-America, Left Coast Conversions**, Rainforest Action Network, Whole Foods, and many more. The purpose of the event is to educate people about the environment and what they can do to help conserve energy, help clean the air, as well as convert their automobiles into hybrid or full electric vehicles!

WHEN: Screening: Saturday, June 24th at 12:45pm (Patrons must purchase tickets through the LAFF. Green Day: immediately following the premiere

WHERE: Screening: Landmark Regent Theater: 1045 Brixton Avenue, Los Angeles, CA. Green Day: Parking Lot adjacent to Landmark Regent Theater

WHO: Chris Paine, Director; Dean Devlin (Independence Day), Peter Horton, Alexandra Paul, and many more.

MORE: Media credentials are required for red-carpet arrivals and "Green Day" coverage. Please contact Erik Bright at Insignia PR for accreditation requests and more information at 310-777-1150 or ebright@insigniapr.com.



**GENERAL
MEMBERSHIP
MEETING
JUNE 23, 2005
Miramar College**



Now showing at Hillcrest Theater in San Diego...

We hope you'll all see the new film, "An Inconvenient Truth," as soon as it opens near you. For info and locations, see <<http://www.climatecrisis.org/>>. This film could help catalyze that "tipping point" we need to do "Whatever It Takes" to reduce greenhouse gases. The first step is to encourage people to go who would not be likely to go on their own. Write them, drive them, see it again with them!

Some Drivers May Travel Fewer Miles on a Tank This Summer

This summer, some drivers may travel fewer miles on a tank of gas than they did last summer, and the difference is the fuel. It may have less energy in it. Some refiners are adding ethanol — up to 10 percent by volume — as an octane booster. A gallon of ethanol has only about two-thirds as much energy as a gallon of gasoline. An engine needs to burn more of a lower energy fuel to do the same work.

Source: When It Comes to Alternate Fuels, All Gallons Aren't Equal, New York Times

Clean EDGE Act. Senate Democrats unveiled a broad energy package with a goal of achieving energy independence for America. Called the [Clean EDGE Act of 2006](#), it sets a national renewable portfolio standard (RPS) requiring that 10 percent of all electricity produced in the country come from renewable sources by 2020. It also includes a call to reduce petroleum consumption by 6 million barrels a day in 2020 -- or 40 percent of America's projected imports. The bill was introduced and referred to the Senate Committee on Finance on May 17. - [More Info](#) -

The "H" Prize. Currently passing through Congress is a bill that aims to help overcome technical barriers in the development of a hydrogen-based economy. The H-Prize Act of 2006 would establish a national prize of \$100 million for "wells-to-wheels" breakthrough technology. The bill also proposes to award biennially four \$1 million prizes for hydrogen production, storage, distribution and utilization, and one \$4 million prize for breakthroughs in hydrogen-powered vehicles. It was voted through the House by 416-6 on May 10, and is now awaiting approval by the Senate and the president. - [More Info](#) -

SDG&E's Wind Contract Approved. The CPUC approved SDG&E's request to purchase over 200 megawatts of electricity from enXco, a wind energy firm. The contract will contribute approximately 3.5 percent toward meeting SDG&E's goal of getting 20 percent of electricity from renewable resources. - [More Info](#) -

California Solar Initiative and Self-Generation Incentive Program (R.06-03-004) On May 4, the California Public Utilities Commission (CPUC) held a workshop to discuss their staff proposal on aspects of administration of the [California Solar Initiative \(CSI\)](#). Subsequently, the CPUC received comments from 22 parties addressing the plan including tax incentives, performance-based incentives, incentive reduction triggers, non-PV technologies, energy efficiency and metering requirements for systems and non-utility administration for small solar projects. Additional reply comments were received on May 26.

For the 2006 solar program, the CPUC has ruled (D.06-05-025) that the SGLP PV rebate will drop from \$2.80 per watt to \$2.50 per watt once a 50-megawatt statewide cap is reached. The cap is based on *conditional reservations*. All [SGLP](#) web sites will keep an updated running total of conditional reservations.

Cat Lift Trucks Purchases General Hydrogen Fuel Cell Pack.

General Hydrogen Corporation has sold a Hydricity® Pack to Cat Lift Trucks of Houston, Texas, to be delivered in July, 2006. Cat Lift Trucks will be using the pack in a Class 1 battery-electric forklift.

http://www.generalhydrogen.com/downloads/CatLiftTrucksGHMay18_06.pdf

California Residents Use Fuel Cell-Powered Mercedes To Get Driver's License.

A select group of Californian residents completed their driver's test in a fuel cell powered DaimlerChrysler Mercedes F-Cell vehicle.

http://www.emercedesbenz.com/May06/31_California_Residents_Use_Fuel_Cell_Powered_Mercedes_To_Get_Their_Drivers_License.html

Larry Emerson shares -What Will Get Us Out of Our Cars?

The question is on a lot of minds these days, according to an editorial in the Oakland Tribune. Grinding commutes haven't done it, nor have skyrocketing gas prices. Legislators are looking into ways to force drivers into using alternative transit, but can they cause enough pain to effect change in driver behavior? To some, the idea of trying to effect such changes is not only unnecessary, it is misguided and even un-American. To others, it is a way to cure traffic jams, reduce pollution and make the nation stronger in the face of terror. The means available to do this - including higher gas pricing, greater use of toll roads, mileage based tax and insurance systems and other measures - not only inflict pain, and often on those least-equipped to bear it; they also require political will and courage to implement. "There's this addiction to oil that we have in this country. The reality is, we have to find ways to move people away from foreign oil," says Assemblyman Joe Nation (D-San Rafael). He's proposing to gradually increase the pain by charging Californians - already hurting from some of the highest gas prices in the nation - another 25 cents per gallon in gasoline sales tax. The pain would be blunted by phasing in a five-cent increase per year over five years and offering a tax credit for the lowest 20 percent of income-earners. On the positive side, it's projected the plan could raise \$2.6 billion a year for improving traffic flow, \$1.3 billion for alternative-fuel transportation research and \$1.3 billion in

rebates for those who buy alternative-fuel vehicles. Besides raising all that money, "it would change people's behavior," the assemblyman says. Nation, who is an economist by trade, says "What evidence shows, is if those prices stay high for a year or more, people start to change their behavior." Rod Diridon, executive director of the Mineta Transportation Institute in San Jose, agrees in part. While most product sales are subject to normal pressures of price, supply and demand, "when you have a product that everybody wants to use, no matter what the price, that's called inelastic demand." Consumers won't snap to these senses until they reach a point of "elasticity conversion," when they hurt enough to change their habits. Republican state controller candidate Tony Strickland opposes Nation's gas tax proposal. "Social engineering is not working. People are still driving their cars, and they feel even more of a severe pain at the pump now." But with demand going up and supplies lagging, Nation says the status quo simply can't be preserved.

Cincinnati Metro Attacks Fuel Costs with Biodiesel

Cincinnati, OH - Cincinnati Metro is now fueling all of its buses with a 50 percent blend of biodiesel and regular diesel fuel. According to a Metro release, the agency intends to use the 50 percent blend in months when the average temperature is over 40 degrees (April to October) and switch back to the normal 20 percent blend in colder months. Ohio is the sixth largest producer of soybeans in the nation, and Metro was one of the first transit systems in the country to experiment with biodiesel, operating its buses several million miles on the alternative fuel. In 1993 and 1994, Metro participated in two successful national tests for soybean-based biodiesel. In 2000, Metro experimented with biodiesel made from recycled cooking oils from local restaurants. In 2001, Metro operated almost half its fleet on a soydiesel blend. All of the tests were funded through special alternative fuels grants. Based on these experiences, Metro has been pleased with the performance of the fuel in its buses, but cost was an issue until recently. Currently, biodiesel is less expensive for Metro than regular diesel fuel on the open market, and this increase will make Metro one of the largest biodiesel users in the nation, consuming about 1.3 million gallons a year. Budget is the primary reason for this aggressive use of the alternative fuel: Metro's 390 buses use about 3.6 million gallons of fuel per year, and the agency saves about \$1 for every gallon of biodiesel purchased through an arrangement with its local fuel supplier, Peter Cremer North America. Biodiesel has a positive impact not just on the environment and Metro's budget, but also on the economy of the region and the state, as the biodiesel Metro uses is manufactured locally from Ohio soybeans. In early September 2005 when Hurricane Katrina caused disruption in deliveries of diesel fuel to the Cincinnati area, Metro arranged to purchase biodiesel in lieu of scarce diesel fuel. Metro has continued to purchase biodiesel since that time.

Business Use of Hybrids Expands in SF Bay Area; AAA Switches over Entire Fleet

The AAA of Northern California has announced plans to switch its entire fleet of 400 vehicles to hybrid Toyota Priuses and Ford Escapes. San Francisco's Yellow Cab cooperative bought 10 hybrid Ford Escapes in February 2005, and now has 25 Escapes among its 470 cabs. The Yellow Cab fleet also includes 35 compressed natural gas-powered cars.

Source: Hybrid Fleets Ever More Popular with AAA the Latest to Switch Over, CBS5-TV



energy pack NiMH 360 V 18 Ah



speed 85 km / h
~ 53 miles / h

electric motor 5 kW

charge 1 km / min at 230 V

range up to 130 km
~80 miles

Zero emissions electric drive yields the equivalent
of 300 to 600 miles per gallon!

--As seen in "Vanity Fair" magazine--
(May 2006 issue, page 88)

The Twike "Active" equipped with two Nickel Cadmium battery modules
is available for approximately \$20,385.

2008 around-the-world green-tech race

Take a car race from a century ago, add a dose of adventure, a dollop of history and a healthy serving of future fuel perspective, and what do you get? [The Great Race 2008](#).

In 1908, six cars started an around-the-world race from New York to Paris. Three finished, and the American car won.

Rally Partners Inc. is planning to celebrate that event in 2008 with another New York-to-Paris race, and is offering a purse totaling \$1 million.

Organizers this time hope to sign up 40 teams - 20 driving vintage automobiles and 20 driving vehicles with the latest in "green" technologies.

"Much like the ' Greatest Auto Race' proved the combustion engine a practical solution for motor travel, the Great Race 2008 will test and prove automotive propulsion technologies that will transport the world' s citizens in the 21st century," said Bill Ewing, chief executive officer of Rally.

Hacking Your Prius - Link to story on CNET News.com:

http://news.com.com/Hacking+your+Prius/2100-11389_3-6074671.html?tag=nefd.top



ELECTRIC VEHICLES

Zebra

ZAP is one of the only places in the world that you can purchase 100% electric vehicles. Get an electric vehicle today!

DoE Plug-In Hybrid Conference

Presentations from May 4-5, 2006 conference sponsored by Office of FreedomCAR and Vehicle Technologies.