



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

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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 Autotorium
Next Meeting: Tuesday, October 24, 2006 @ 7 p.m.
Topic #1: Flexcar's modern fleet is available to you by Josh Gelfand
Topic #2: Plug-In Partners National Campaign – video

The President's Message

The September EVAOSD Meeting was well attended as we discussed the Tesla EV Roadster and EVents that are coming up during October. With the success of using microphones that are provided by Russ Lemon we seem to be communicating better.

I am encouraged by all of the individuals that are interested in converting a conventional car into an EV. After our meeting I went up to Palo Alto to attend the 34th Annual EV Car Rally where all of the cars that we have been talking about (Tesla, X1, Tango & many conversions) were on display. I learned that 300 people were registered for their EV Conversion Class.

Then during the first week of October in Southern California we had three AFV Shows (Coronado, Palm Springs & Ontario) going on at the same time. With a National AFV Day Odyssey being held at some 60+

different sites and all of the positive press, somebody seems to be getting the message across.

EAA has asked us to maintain a sign is sheet for our meetings. This will be good for us to follow up with contacts that are provided. So I am going to have two sign up sheets one for members and another for guest. Hopefully members will be able to check their name off the list while verifying that the info is correct.

For our October 24, Meeting we do have a full program again. Flexcar's modern fleet of Ultra Low Emission Vehicles and fuel-efficient hybrids are available to you by Josh Gelfand www.flexcar.com for more information. Then we have a video from Plug-In Partners National Campaign www.pluginpartners.org is their website.

I look forward to seeing you at our meetings perhaps in an EV.

Bill Hammons, President EVAOSD

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:

10/24 EVAOSD Meeting – Flexcar by Josh Gelfand & Plug-in Partners National Campaign

11/28 EVAOSD Meeting (last meeting for 2006)

12/9-10 Santa Monica Alt Car & Transportation Expo.
Stealing LA Auto Show's thunder see story in newsletter.

12/27-1/3/07 San Diego Auto Show

1/26-28/07 6th EVer EAA All Chapters Meeting & 2007 Battery Beach Burnout – www.FloridaEaa.org



Hybrid owners gain an average 9 miles per gallon.

Note that checks or PayPal payments for EVAOSD need to be made out to EAA with memo indicating that funds are intended for EVAOSD. Our day-to-day function stays the same EAA is helping with our banking and non-profit status.

To prepare this newsletter we use items that we find on the internet and to share the knowledge. In accordance with Title 17 U.S.C. Section 107, this material is distributed without profit to those who have expressed a prior interest in receiving the included information for research and educational purposes.

GREEN IS RED HOT says USA Weekend. "Who said green can't be sexy?," Car & Driver Special Report info at http://usaweekend.com/06_issues/061008/061008auto.html

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

Thanks to Russ Lemon and Kevin Taylor for donating equipment & time to meeting presentations. The following members & associates that are "Taking Turns" with updates that are not in the mainstream media.

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

Dave Cutter from "Village Energy" has reports on several EV at <http://www.pleiades-enterprises.bigstep.com/generic189.html> additional photos on the electronic newsletter.



David Cutter Village Energy / Pleiades-Enterprises.com / New Energy News
Story continued on pages 7 & 8...

Mitsubishi to sell electric car in the U.S.

From Maynard's Garage at <http://utsubscriberperks.signonsandiego.com/insider/?cat=43>



The production version of the concept might be based on the next-generation Colt, which is due before the end of the decade.



By [KATHY JACKSON | AUTOMOTIVE NEWS](#)

LAS VEGAS -- Mitsubishi Motors Corp. plans to sell a small electric car in the United States.

President Osamu Masuko said the vehicle, powered by a lithium-ion battery, will be launched first in Japan. A hybrid version

President Osamu Masuko said the vehicle, powered by a lithium-ion battery, will be launched first in Japan. A hybrid version of the car also might be available, Masuko added.

Timing and sales volume targets were not disclosed. A detailed announcement about the car is expected shortly.

"From an environmental standpoint, we believe the electric car is the way to go because it has zero emissions," Masuko said here last week at a Mitsubishi dealer meeting. "Fuel cell technology is still off in the future. Diesels are big in Europe but not in Japan and the U.S."

Mitsubishi has been testing hybrid and electric cars in Japan. In January, it unveiled a hybrid concept at the Detroit auto show.

The Concept-CT MIEV is smaller than the Lancer. It has four doors, all-wheel drive and a 1.1-liter gasoline engine. Each wheel has its own electric motor. The electric motors provide awd without a traditional transmission, thus cutting weight.

During a previous interview, Mitsubishi executives told *Automotive News* that the production version of the concept might be based on the next-generation Colt, which is due before the end of the decade.

Lithium-ion batteries store twice the energy of similarly sized nickel-metal hydride batteries.

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California EV Makers Speak Out By [EV World](#) ...

California's EPA convened a special, three-day conference last week in Sacramento to explore the current state of zero emission vehicle (ZEV) technology. During the afternoon session of the second day, 26 September 2006, a number of electric car manufacturers and advocates were invited to make presentations. Among them were Tom Gage with AC Propulsion, Martin Eberhard of Tesla Motors and Ian Wright of Wrightspeed.

[Tom Gage](#) spoke on the advantages of electric vehicles as a means of reducing pollution, CO2 emissions and our dependence on oil. He noted that if everyone woke up the next morning and drove a Prius, Americans still would consume twice as much oil as the rest of the world on a per capital basis. What is need, he argues, is not just improved efficiency and conservation, but fuel substitution and one of the best is electricity.

He explained that there are already 8 million "plug-in" vehicles in America known as recreational vehicles (RVs) where as many as 30 million people have had safe, positive experiences plugging in their vehicles at home or at RV parks. In his mind, this demonstrates the practicality of our simple, cheap, effective infrastructure known as the power grid.

He noted that the cost of operation of their new eBox -- including battery replacement -- is between 20-40 cents/mile. This compares favorably with a GM Hummer at 30 cents per mile just for gasoline.

[Martin Eberhard](#), the head of Tesla Motors acknowledged that there is a ring of truth to the assertion that EVs have had limited appeal, so his company has developed a high-performance electric sports car that he believes has appeal beyond the narrow spectrum of EV enthusiasts. It's a car, he asserts, for people who (1) like cars and are excited about them, and (2) care about oil dependency, global warming, and pollution. He reviewed the performance specifications of the Tesla Roadster, explaining that it gets better than the equivalent of 135 mpg.

Eberhard then introduced the company' s new concept car, called the "White Star", though he didn' t show any photos of what the car will look like other than an artist' s illustration of a vehicle covered with a tarp. He did say it will comfortably seat 4-5 adults, have better than 6 seconds 0-60 acceleration, get 250 miles on a charge and cost less than \$50,000 in the base model.

During the presentation, he proposed a new, open architecture charging standard based on a beefed up version of the old SAE 7272 standard coupled with a robust, conductive military-type connector.

Perhaps most revealing of all, he compared the distance a car might travel using the same amount of electricity to charge an EV and a make hydrogen for a fuel cell car. He also comparing cellulosic ethanol to electricity in an EV. His slides demonstrated how much more efficient an electric car is compared to fuel cells cars getting 3-4 times the range. When comparing land used to grow biomass versus photovoltaic panels, the distinction is even more dramatic. He contends that one acre of choice Midwestern farmland planted in either switch grass or miscanthus will yield enough cellulosic ethanol to power a flexible fuel car 58,000 miles. By contrast, an acre of barren desert covered with photovoltaic panels will drive an electric car 1.8 million miles or 32 times further while avoiding the issue of food versus fuel.

He closed by saying the best way to predict the future is to invent it.

[Ian Wright](#) is a transplanted New Zealander who left the IT world in Silicon Valley to join Tesla Motors before setting out to start his own EV company, Wrightspeed. His prototype car, pictured above, is nearly ten times more efficient than the closest, high-performance gasoline-fueled sports car, the V-12 Ferrari: 43% well-to-wheel versus 4.5% for the Italian competitor.

In the Wrightspeed X-1, Wright takes advantage of the curious property of electric cars that you can have extraordinary performance and ultra efficiency as the same time. He noted that even if he reduced the power of his car by two-thirds, it would be no more efficient than it is right now and possibly less so. He contends that you don' t have to tradeoff efficiency and emissions with an EV.

He pointed out that while the X-1 is a concept car, it has beat the best Porsche has to offer, yet it' s street legal, The prototype has some 4,200 miles on it since its debut less than a year ago. The car can reach 60 mph in 117 feet and 3.069 seconds. Zero-to-60-zero is 250 feet, including driver reaction time.

"This is extreme performance," he emphasized. Despite being faster than all but the most expensive, \$1.8 million dollar super car, it still gets 170 mpg equivalent. It' s "fueled" by a 25kWh, 400 volt lithium ion battery pack powering an AC Propulsion drive system that can generate up to 750 hp for brief bursts, but is derated to 300 hp.

In a barb at hydrogen, he noted that the entire car, which is based on what he called an "obscure British sports car chassis" -- weighs 1,536 pounds.

"That' s not the weight of the hydrogen tank. That' s the weight of the car."

He explained that the car is likely to change significantly as it moves from concept to production over the next few years, including improving the range from the current 100 miles to closer to 200 miles city driving range.

Amazingly, he also thinks the car' s already scorching performance can be improved even more.

What' s next? Warp drive?

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.

Paul Scott reports that if you are frustrated when you go to the Auto Show to find EV and fuel efficient transportation L.A. will have alternatives for you by having another Car Show that is not so fulish.



The Alternative Car and Transportation Expo

Saturday & Sunday
December 9 & 10
at the
Santa Monica Pier

- The **largest presentation ever** of high fuel efficiency vehicles, mass transit, transportation planning, cycling options and more
- Ride & Drive lot for an experience with all technologies
- Continuous seminars and panels discussing and debating the options
- World renowned experts
- Contest for transportation solutions

save the date!

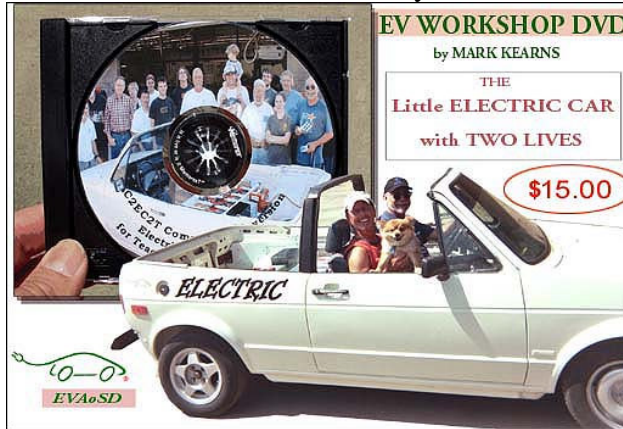
For information regarding attending, exhibiting or entering the contest, please contact Platia Productions at **310-390-2930**.

Free Admission



This Alt Car Expo runs during the L.A. Auto Show with transportation (a clean bus) from the Santa Monica Pier to the L.A. Convention Center. Besides the environmental vehicles this show is free. **Support this event by sharing the info and attend if you are able.** Just think what kind of statement would be made if this new Expo had better attendance than the traveling Detroit show that is the same as it was in the beginning of 2006? Will San Diego be next as Detroit seems to roll out the same old show around the New Year Holidays before they put together a new show for everybody else.

We are providing free video access for a DVD about the C2EC2T EV Conversion Workshop that was held this past summer. Still many from all over the world are demanding that we sell them a DVD that is labeled. Here is the info that you will need shipping is included in the \$15 cost.



Description:

Electric Commuter Car Conversion Workshop DVD: Thirty men and women come together for one common cause - This high quality video tells the true story about how 'Da Little Phoenix' returns to life as an electric car! **More at Village Energy** <http://www.pleiades-enterprises.bigstep.com/generic173.html>

2. You can download the high quality 97mb file of the DVD Electric Car Conversion Class to play on your computer for free. <http://www.sendspace.com/file/un42o1>

3. You can purchase a DVD that is labeled and mailed to you for \$15.

Additional information at www.evaosd.com



The **Venturi Eclectic**, touted as an "autonomous energy vehicle," gets its charge from wind and 8.2 square feet of solar cells atop its roof. The four-person ride boasts a 22-horsepower purely electric motor, is powered by liquid-cooled NiMH batteries, and can reach a speed of nearly 32mph. Commuters could warm to the concept.



Innovative and smart, Eclectic is much more than a glorified golf car - it is a production and storage plant for [renewable energies](#); either solar or wind based, and can also be recharged electrically.

The Eclectic has 2.5 m² of photovoltaic cells (14%). Solar recharging takes about 7 km per day of exposure. An optional wind turbine mounted on the roof or on a standalone mast can contribute an additional 9-10 miles per day.

Read on...

“Who Killed the Electric Car” is scheduled to be available on DVD in November, just in time for filling your Holiday Shopping needs. Stay plugged-in for more news.