

# Charged Up



## ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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Website: [www.evaosd.com](http://www.evaosd.com)

### Officers:

President: Joseph S. Gottlieb

Vice President: Wistar Rhoads

Treasurer: Lloyd Rose

Program Chairman: Joseph S. Gottlieb

Newsletter Editor: Staff

Webmaster: Russ Lemon

Librarian & AV: Lloyd Rose

**Regular Meetings:** Our meetings are on on the 4th monday of every month (except December).

**Location:** California Center for Sustainable Energy  
8690 Balboa Ave., Suite 100 · San Diego, CA 92123

**Place:** Main Conference Room

**Next Meeting:** Monday, Sept. 26, 2011 @ 7:00 p.m.

**Program:** General Topics

### Presidential Ranting:

Oh, you didn't think I would go this long without a rant did you? I have two issues. The first is a tired old message I have been giving for years. HELP. Send in articles, offer to take my place, grab a guest speaker... anything! Now, onto our regularly scheduled rant.

H8TRs. Not the TV show, but fellow man. I will recount two issues I ran into whilst enjoying the love of passing gas...stations. I overheard a gentleman joking with his friend how I could only go out with my friends if the bar was located on the way home (cause I wouldn't have enough electricity to make it) and that I drink at the bar that has bad drinks, but a great outlet.

The other is getting the middle finger from a fellow as we were stuck in traffic. I eventually caught up to him at a red light, rolled down my windows and asked politely (well, maybe not) "WHAT!?!". The gentleman went on a crazed, 4-letter word binge about how all of us smug hybrid drivers don't know how to merge, drive in traffic, or change lanes. To calm the situation down I yelled politely (well, maybe not) that my car is NOT a \*!@\*\$! hybrid, it is electric! That didn't seem to help.

The lesson learned... Stay calm, drive efficiently and whenever possible, cut off a 1986 Powder Blue work van.

### Inside this issue:

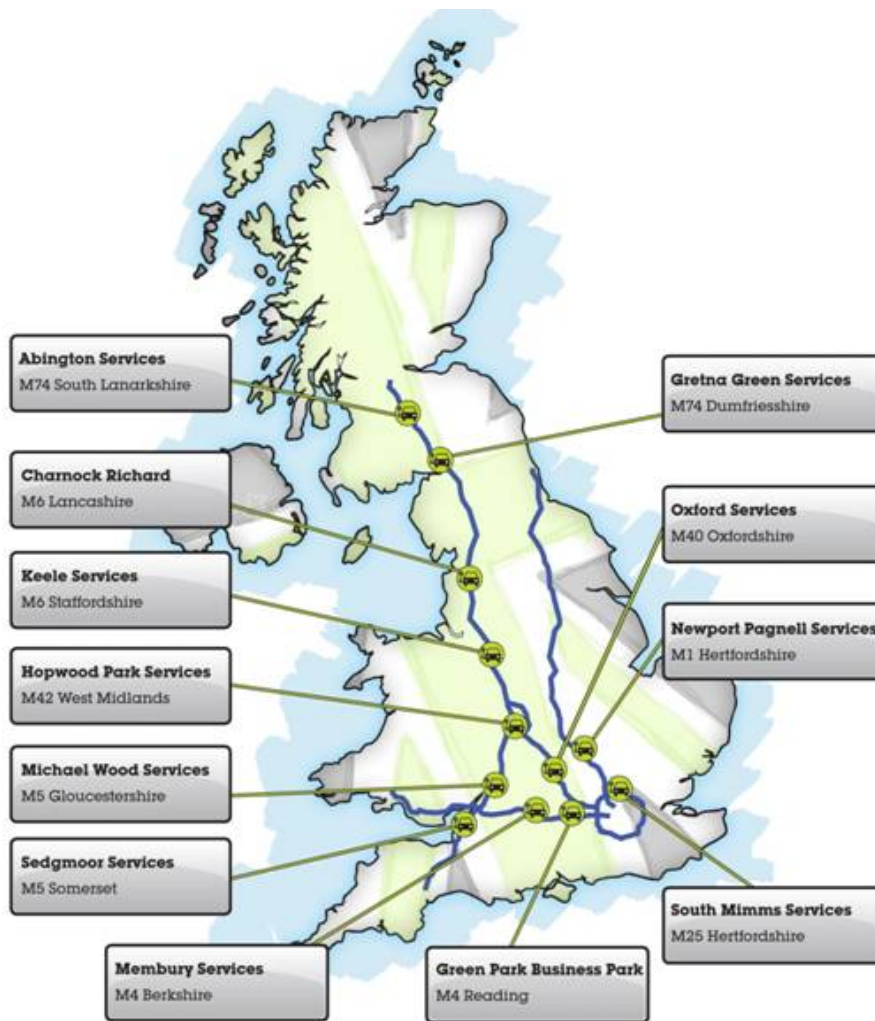
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**From the Treasurer**

To me, the attached article is a great example of what we should hopefully see in the future. In my mind, I transpose a map of "Southern California" (or all of California) in place of the United Kingdom that displays an Electric Charging Station Highway with rest areas, coffee houses or restaurants for taking a break while charging takes place. With level three chargers, the 20 to 30 minutes needed to load up (top off) the battery pack, would be fairly practical. Three interesting ingredients seem apparent to me in this United Kingdom example. The first is the location of the charging station itself has to be convenient and along a major travel route, The other ingredient is that it includes an element to get out of the vehicle, stretch your legs and take a break from driving. The third element is that its powered and supported by clean sustainable energy if possible. Anyway, it seem like the next logical step as more electric vehicles hit the highways!

**ECOTRICITY LINKS UP UK SERVICE STATIONS WITH CHARGERS ALONG ELECTRIC HIGHWAY**  
By Eric Loveday

Posted Sep 22nd 2011 8:03AM Electric vehicles can now drive between Bristol, Birmingham and



London without fear of running out of juice since ECOTRICITY opened two additional charging stations along the UK's Electric Highway as part of the worlds first ever nationwide electric charging network.

The Electric Highway currently has charging points at five Welcome Break service stations in the UK. Called "top-up zones," each station is powered by energy generated by Ecotricity's wind and solar

parks scattered throughout the UK. In less than 18 months, all of the UK's 27 Welcome Break motorway service centers will have at least one charging point.

Dale Vince, founder of Ecotricity and the man behind the NEMESIS EV, says people often ask why his firm is building this Electric Highway when only 2,000 electric vehicles travel on the UK's roads. His response:

It's often said that one of the reasons more people don't buy electric cars is because of a lack of charging facilities – while the reason more charging facilities aren't built is because not enough people are buying electric cars – classic chicken and egg stuff. We're hoping to break that impasse. We're creating the infrastructure to get Britain's electric car revolution moving.

That's our kind of thinking.

## Events:

### CCSE - Electric Vehicles: Past, Present, and Future

Now that your home is your fueling station, make sure it's as high performance as your new electric vehicle!

Date: [Tuesday, October 4, 2011](#)

Time: 6:00 – 8:00 pm

Place: California Center for Sustainable Energy  
8690 Balboa Ave., Ste. 101 Kearny Mesa, San Diego, CA 92131

This is the second in a series of workshops that explore the wide range of electric vehicles (EV) entering the market today. Come to the workshop and learn more about:

- EV utility rates and how charging your EV at home could affect your utility bill
- Taking advantage of state rebates and federal incentives for EVs
- Mitsubishi's extensive studies on the EV market and range anxiety

The presentation will include an open discussion and time for questions. Attendees will have the opportunity to test drive the new Mitsubishi i after the presentation.

[REGISTER NOW](#)

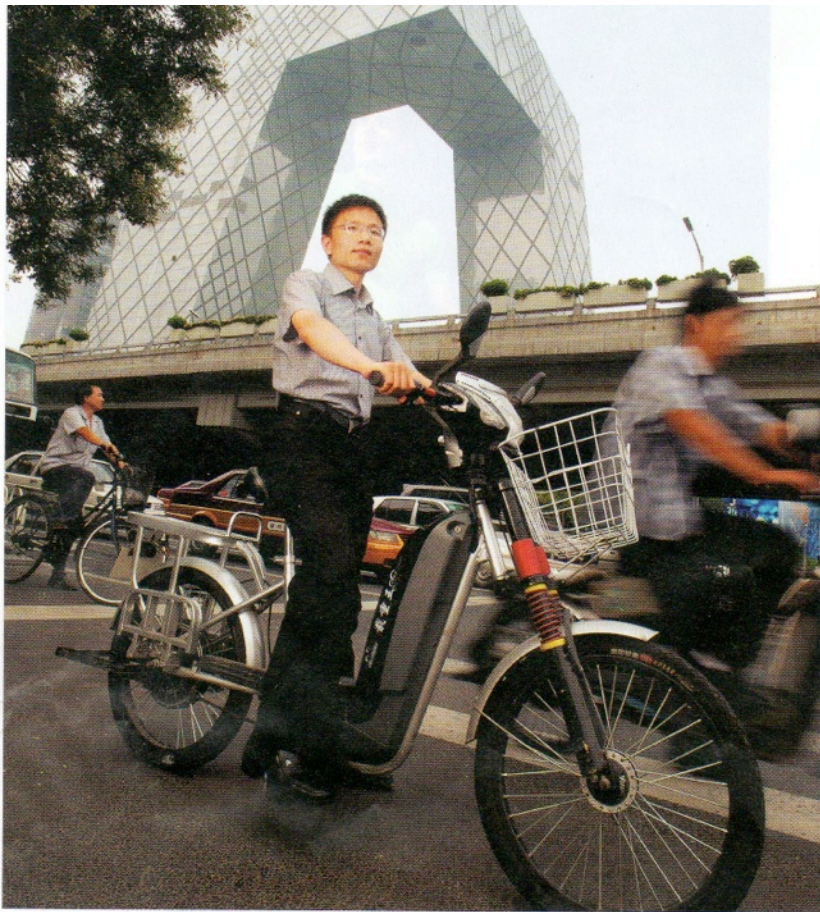
### City of La Mesa

The City of La Mesa Environmental Sustainability Commission is pleased to announce the fourth annual "Sustain La Mesa" Environmental Festival and "Our Planet, Our Home" K-12 Environmental Literacy and Art Contest, Saturday, October 8, 2011, at Harry Griffen Park from 10:00 a.m. to 2:00 p.m. We hope your group can participate. Since the event is educational and not commercial, there is no fee for booths, and we will provide a table and two chairs.

If you would like to reserve a space, please contact Scott Munzenmaier at [smunzenmaier@ci.la-mesa.ca.us](mailto:smunzenmaier@ci.la-mesa.ca.us) by August 12, 2011. Let us know your needs so that we may situate you appropriately:

There are shade trees over much of the park grounds. Please let us know if you will bring a canopy so we can provide sufficient space. Electricity is available upon request. Sunny spots can be reserved for those who need solar energy.

Booth set up is available from 7:00 a.m. We ask that cars be parked and booths set up by 9:00 a.m., and that all booths remain open until the Festival ends at 2:00 p.m. A map of assigned spaces will be provided to you prior to the festival. Additionally, we will be putting together a Festival program. If you have a scheduled hands-on activity or workshop as part of your exhibit that you would like included in the Festival schedule, please let us know so that we can coordinate times to allow the public to attend as many activities as possible. If you have any questions, please contact Scott at 619.667.1338 or by email at "Scott A. Munzenmaier" [smunzenmaier@ci.la-mesa.ca.us](mailto:smunzenmaier@ci.la-mesa.ca.us) Thank you again for your efforts to help spread the message of environmental sustainability.



## ENERGY

## Yu-Guo Guo, 33

### Creating a cheap, safe material for electric-vehicle batteries

WUHE

Advanced nanostructures invented by Yu-Guo Guo could lead to electric-car batteries that deliver more power at 10 percent less cost. That's significant because battery packs account for a great deal of the cost of electric cars such as the Nissan Leaf. A car with a big battery pack is too expensive for most people, but models that keep costs down with a smaller battery pack can't go very far on a charge.

For Guo, a professor of chemistry at the Chinese Academy of Sciences in Beijing, the crucial innovation was a better way to use lithium iron phosphate. Automakers like the material because its stable chemistry makes it safe for use in large electric-vehicle battery packs. But ordinarily, it is not con-

ductive enough to be useful. Some manufacturers have tried milling the phosphate into an extremely fine powder that's more conductive but difficult to work with. Guo's solution was to incorporate phosphate nanoparticles into larger particles made of porous carbon. These particles retain the high conductivity of the powder, but they are easier to pack closely and less likely to become airborne.

Late last year Guo founded a company, Wuhe, that will produce enough material for 30 million lithium-ion battery cells this year—enough for roughly 5,000 car battery packs. The cells are currently being sold for use in electric bicycles and being tested for use in electric cars. —Kevin Bullis

## Another Event:

**On Sunday, October 16, Plug In America, Electric Auto Association and Sierra Club are celebrating National Plug In Day around the country.**

<http://www.pluginamerica.org/pluginaday>

In Santa Monica, California we are planning an EV parade. We invite highway capable plug in vehicles in the area to join us as we roll from the Santa Monica Civic Center down Main Street at 10am. We're staging vehicles in the parking lot from 8:00 a.m. through 9:15 a.m. The press conference begins at 9:30 a.m.

JOIN

US!!! Mingle with EV drivers and show off your car while showing the world plug ins are here!

This will be the biggest convoy of electric cars in history. In 2009, Plug In America organized a parade of 78 EVs: motorcycles, Teslas, RAVs, Rangers, IMiEVs, Plug in Prii, Chevy S10s converted Porsches and Hummers, a plug in bus, an electric truck which hauls 60,000 lbs... but that was then! Now there are thousands of Volts and Leafs on the road with other makes & models soon to come, so we are hoping to at least double our numbers.

For more information:

<http://www.pluginamerica.org/pluginaday/los-angeles>

Please email Alexandra to join the Santa Monica parade:

[Alexandra@pluginamerica.org](mailto:Alexandra@pluginamerica.org)

For drivers in the Orange County area, please contact Linda Nicholes for the Tailgate without Tailpipes Meet-up and Drive-away 1-3 pm at the Orange Public Library parking lot: [Linda@pluginamerica.org](mailto:Linda@pluginamerica.org)

Thank you,  
Alexandra Paul  
216,500 gasoline-free miles driven  
[Alexandra@pluginamerica.org](mailto:Alexandra@pluginamerica.org)



## ELECTRIC VEHICLE (EV) CONVERSION WORKSHOP (ONE DAY MINI-COURSE)

Description: The workshop will go over the basics of a Gas to Electric Vehicle conversion with a focus on the EV sub-systems needed for a do-it-yourself conversion. Instruction will include hands-on activities on dynamic EV mock-up platforms. In addition previously converted EV case study models will be available for test rides.

- Date: Offered on the first Saturday of each month
- Time: From 9:00 AM to 1:00 PM
- Cost: \$75.00 (includes materials and lunch)
- Location: Kick Gas Co-Op, 815 University Ave, San Diego CA 92103
- Website: <http://kick-gas-club-electric-conversions.com/>
- Contact: [quevedo@cox.net](mailto:quevedo@cox.net) or [jasonrugs@yahoo.com](mailto:jasonrugs@yahoo.com) to pay registration fee

**\*\* Space is limited \*\***

*PUFF da mechanical DRAGON*



*Electric Vehicle Coop Garage [quevedo@cox.net](mailto:quevedo@cox.net)*

Electric Auto Association (EAA) Membership Application Form

Fill out this form, attach a check, money order or use PayPal, in US funds only, payable to 'Electric Auto Association'. CE = Current EVents newsletter

e-CE [ ] \$35 USA & other Countries [ ] \$25 Student [ ] \$25 Senior (>65-USA/Canada only) birth year [ ]

paper CE [ ] \$45 USA [ ] \$48 Canada [ ] \$52 World [ ] \$29 Student [ ] \$29 Senior (>65-USA/Canada only)

[ ] \$120 (supporting level-1) [ ] \$240 (supporting level-2) [ ] \$500 or more (high voltage) [ ] do not list my name

I support the \_\_\_\_\_ EAA Chapter (additional chapters, \$10 each) \_\_\_\_\_

[ ] (\$10each ) Additional Chapters or Special interest group (other than the one that comes with the membership)

You can fold this form as indicated and mail it with your payment enclosed. Use tape to seal the form, on the sides, before you mail it or send an e-version of this form, through PayPal using http://electricauto.org/eamembership.html

[ ] New Member [ ] Renewal

Name [ ] email [ ]

Mailing address (Apt. #) [ ] Home phone [ ]

Mailing City, State & Zip-8 [ ] Work phone [ ]

[ ] Electronic version of Current EVents, paperless only, link sent by email, if your membership was for the e-version, that is what you will receive

[ ] Do you own or [ ] Lease an electric vehicle (plug-in) [ ] production [ ] conversion [ ] bicycle [ ] hybrid or [ ] None

please include miles driven and type of vehicle [ ]

All information in this application is for the exclusive use of the EAA and not sold or given to any other organization.

Please identify your primary areas of interest relating to the EAA (check as many as your wish

[ ] Owner/Driver [ ] Hobby/Builder [ ] Professional/Business [ ] Competition (Rallies, Races, Records [ ] Plug-in Hybrids

[ ] Environmental/Govt. Regs [ ] Social (Rallies, Shows, Events [ ] New Technology & Research [ ] Solar & Wind Power

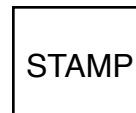
[ ] Promotion & Public Awareness of EVs [ ] Student or General Interest [ ] Electrathon/Bicycle/Scooter/Other

The Electric Auto Association is a non-profit, 501(c)(3) for the promotion of electric vehicles. Your donations are tax deductible and with your membership you will receive the EAA publication, "Current EVents". All information and statistics in this application are for the exclusive use of the EAA and is not sold or given to any other organization or company. Your membership dues include a percentage goes to the EAA Chapter you support for public Electric Vehicle promotion EVents like rallies, shows and EV rides.

Current subscribers have borrowing privileges for the association's video tape and publications library. Subscribing to the newsletter is optional and is not a requirement for membership. EVAOSD meetings are always open to any and all interested parties. New Subscribers, please use this form to register to receive the EVAOSD Newsletter. Current Subscribers, please use this form to send us any change in your details.

Please make check or money order payable to: EAA and reference EVAOSD. Send this form and payment to: Lloyd Rose, EVAOSD Treasurer; 2755 Dos Aarons Way, Suite A, Vista, CA 92081

EVAoSD Newsletter
2755 Dos Aarons Way, Suite A
Vista, CA 92081



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Address Correction Requested