

Charged Up



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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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, Feb. 28, 2010 @ 7:00 p.m.

Program: General Topics

UP UP and AWAY!



Presidents Comments:

My Nissan Leaf has been delayed. Now the online interface shows April. So my letter saying March will be sent to the rubbish bin. I keep hearing about how little Nissans are going to be shipped. I just hope I am high enough on the list to not get dropped.

Meanwhile, the Volt is taking off. You can actually get one if you wanted to still have a gas car. I refuse to call it an electric car with gas assist. Sorry Voltites, I am sticking to my guns on this one.

Also, **we need help!** Did that get your attention? Good, now step up and send in an article, take a picture, or ask to become the next leader of our group!

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From the Treasurer

It seems that the controversy continues for GM as they continue to try to figure out how to “market” the VOLT. They do somewhat send out confusing messages in their marketing campaign and as mentioned before, people are trying to understand what GM is implying by saying “More Car than Electric”. What does this mean to GM and what does it mean to the general public? Within their marketing campaign they are also taking subtle digs at their competitors and making themselves look worse in the process. The attached article is a case in point.

Nissan's Tavares to GM: Electric cars don't have tailpipes (By Eric Loveday)

2011 Nissan Leaf

Back in October, General Motors began airing a series of commercials based around the Chevrolet Volt's then-new tagline: "More Car Than Electric". The choice of this slogan immediately generated some controversy. The commercials that later aired for Chevy's plug-in took a subtle dig at pure electric cars like the Nissan Leaf, while attempting to explain the benefits of range-extended technology.

Well, Nissan never really reacted to GM's slightly misleading advertising campaign. That is, until Carlos Tavares, the automaker's executive vice-president of the Americas, spoke at the Automotive News World Congress in Detroit last week. Tavares held a muffler and tailpipe in the air and uttered these words:

As automakers, we have a duty to communicate with clarity to help customers understand today's technology. If you're calling your car electric, and it has one of these, you're only muddling the message.

Of course, the Volt is equipped with a gasoline-burning engine and thus is fitted with a muffler and a tailpipe, so Tavares, through his not-so-subtle tailpipe lifting approach, is implying that GM has misled customers by combining the words Volt and electric in its communications to the public. We're sure GM is fine with this.

I think this article just underscores the continuing mistrust that GM is continuing to foster and it would be better if they just directed their marketing strategy to the facts and merits of the VOLT vehicle. In addition, people have not forgotten the “mechanical connection” controversy and many feel they should just admit that its really just a Hybrid vehicle. Its just my opinion but after you reach your 40 mile range limitation, I think the Volt is “Less Than Electric”. - Lloyd Rose



More from the Treasurer

I've been fascinated for awhile by Gordon Murray's interest in Electric Vehicle Development. Since he has such a lavish history in vehicle design and development, like the McLaren project, he seems able to gather a lot of support for his design initiatives. Here is some of the latest development information on the T 27 that the Gordon Murray Design entity has been developing.

T 27 The Worlds Most Efficient Electric Vehicle



Gordon Murray Design announce the Specification and Performance Targets for the T.27 City Car, a pure electric drive vehicle designed to fully optimise packaging, weight and performance. The announcement marks an exciting leap forward in efficiency for electric vehicles and working closely with their powertrain partner, Zytec Automotive, a brand new, innovative, lightweight and fully integrated electric motor, control system and battery will be designed to ensure that maximum efficiency is achieved.

Projected emissions, using a UK energy mix, are 48g/km CO₂ for the combined cycle and 28g/km CO₂ for the urban cycle alone, with zero emissions at the point of use. Full lifecycle CO₂ damage will be

42% less than the average UK car.

Vehicle Specification

eMotor:	25kW	Height:	1.60m
Battery Type:	Li-ion	Weight:	680Kg (incl. battery)
Battery Spec.	12kWh	Wheel Base:	1.78m
Length:	2.50m	Turning Circle:	6.0m
Width	1.30m		

Performance Targets

Top Speed:	105kph
0-100kph:	Less than 15 seconds
Range:	80 – 100 miles

The T.27 vehicle concept closely follows the layout and geometry of Gordon Murray Design's innovative T.25 city car, an MPV with 6 possible internal layouts.

The efficiency in cost, weight and performance comes in part from the 'clean sheet of paper' approach, part from the full integration of the powertrain and also from the low energy manufacturing system developed by Gordon Murray Design called iStream®.

iStream® massively reduces the capital investment required to produce the vehicle and also the energy required for manufacture plus the flexibility of the iStream® process would also allow the petrol powered T.25 and the T.27 to be manufactured at the same plant.

The 16 month programme started in November 2009 with a running prototype scheduled for completion in April

2011 and is supported with a 50% investment from the Technology Strategy Board. The next phase in the programme will include a push to secure partners and funding for UK manufacture. A UK partner or consortium to produce the city cars in the UK would keep the technology at home and could create 6,000 jobs.

Professor Gordon Murray, CEO of Gordon Murray Design said:

"The Technology Strategy Board have been incredibly supportive of the T.27 programme and together we are working to keep this in the United Kingdom. It is a great opportunity to work with Zytec Automotive and our other partners on this very exciting programme. We always strive to lead the way in automotive design and our current goal is to maximise efficiency of electric vehicles."

Bill Gibson, Chairman of Zytec Automotive said:

"Zytec's new innovative powertrain, developed from our substantial experience of EV and hybrid vehicle production programmes, will substantially reduce the weight and cost of the electric engine, whilst delivering the quality, refinement and driving experience that T.27 customers will demand."

Iain Gray, Chief Executive of the Technology Strategy Board said:

"This is another example of the UK positioning itself to benefit from the economic opportunities offered by the emerging low-carbon vehicles market. It's great that the T.27, a fantastic example of smart engineering and sustainable design, is at the forefront of this. We are also glad that we were able to support a project that enabled Gordon Murray Design and Zytec Automotive and the other partners to work together to be truly innovative."

Editor's Notes:

1. Consortium partners for the T.27 project are Gordon Murray Design Limited as the lead organisation and Zytec Automotive Limited. Technical support will be provided by Michelin Plc and Continental Corporation and Sub-contractors will include MIRA Limited, Vocis Driveline Controls and VCA UK.

2. The iStream® assembly process is a complete rethink and redesign of the traditional manufacturing process and could potentially be the biggest revolution in high volume manufacture since the Model T. Development of the process began over 15 years ago and it has already won the prestigious 2008 'Idea of the Year' award from Autocar who were given privileged access in order to make their assessment. The simplified assembly process means that the manufacturing plant can be designed to be 20% of the size of a conventional factory. This could reduce capital investment in the assembly plant by approximately 80%. Yet the flexibility of this assembly process means that the same factory could be used to manufacture different variants. The iStream® design process is a complete re-think on high volume materials, as well as the manufacturing process and will lead to a significant reduction in CO2 emissions over the lifecycle of the vehicles produced using it, compared with conventional ones.

Who Killed the Electric Car?

from Al Hodges

1911 – "I did," said Charles Kettering, "with the electric starter on the 1912 Cadillac. Henry Ford offered my electric starter on the 1914 Model T, and he and Edison stopped their electric car manufacturing plan to use Edison's new batteries."

2011 – "I did," said Brit Cella Energy CEO Stephen Voller, "with our new discovery to make \$1.50 per gallon synthetic hydrogen gasoline with no carbon emissions (using nanotechnology)."

2011 – "We did," said Volkswagen, "with our new advanced ICE technology and light weight composite components to achieve 313 mpg."

Kick Gas Co-Op



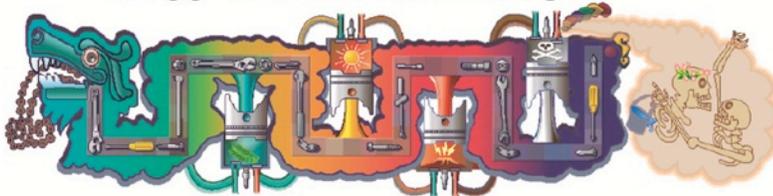
ELECTRIC VEHICLE (EV) CONVERSION WORKSHOP (Five Day Class)

Description: The workshop is a project based instructional offering for teachers and electrical vehicle conversion enthusiasts. The focus of the workshop will be on practical hands on experience needed for a successful conversion. A disassembled EV conversion will be reassembled by six workshop participants during the five day offering.

Dates: Monday April 18 to Friday April 22, 2011
Time: From 8:00 AM to 2:00 PM
Cost: \$500 (includes materials and lunch)
Location: Kick Gas Co-Op
815 University Ave,
San Diego CA 92103
Contact: Quevedo@Cox.net or TomJones@ieee.org



PUFF da mechanical DRAGON



Electric Vehicle Coop Garage 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

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