

Charged Up



ELECTRIC VEHICLE ASSOCIATION OF SAN DIEGO (EVAOSD)

An affiliate of the Electric Auto Association (EAA)

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Newsletter Editor: Tom Dulaney

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Librarian & AV: Lloyd Rose

Regular Meetings: Our meetings are on a different schedule, please check date below (No Meeting in December).

Location: SDG&E Innovation Center
4760 Clairemont Mesa Blvd.
San Diego, CA 92117

Next Meeting: *February 27th, 6:30 PM*
(WEDNESDAY)

Program: What makes EV's so cool?

From the Vice President

I thought I had seen it all but there is always some new idea that others have not tried yet. I'm struggling to find this as a practical alternative to other "efficiency boosters" but it would also only work where one has a lot of open area and no highway overpasses. :-) After reading the article though I feel the vehicle itself would still be a vast improvement over most of the automobiles on the road today. Maybe there's a compromise.... What do you think?

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Newsletter Editor's

Message:

Hello fellow EVAOSD club members. Many of you already know me, but since this is the first issue of the club newsletter I have put together myself, let me give you my contact information. If you have anything you would like to see published, there's always room for you. In this issue on page 5 see the Lightning GT!

Tom Dulaney

Webmaster@amx390.com

Inside this issue:

- 1 Vice President's Message
- 2 From the VP
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GIANT KITE, EVONIK TECHNOLOGIES HELP WIND EXPLORER EV CROSS AUSTRALIA



Posted by Jon LeSage RSS feed

Posted Jan 24th 2013 6:01PM

Turns out, you can drive a unique electric vehicle all the way across Australia on less than \$15 worth of electricity. You just need some kite assistance (or, yes, solar power). The Wind Explorer that made this trek is now on display at Evonik's New Jersey office, since the company worked on the quirky EV.

The 3,000-mile trip was piloted by German extreme sportsmen Dirk Gion and Stefan Simmerer. The car is powered by a lithium-ion battery from Evonik's Litarion electrodes and Separion ceramic separators. These technologies are exclusively manufactured by Evonik and allow its battery cells to store **energy generated from a portable wind turbine**. The Wind Explorer also used large, steerable kites to cover hundreds of miles in crosswinds during its test run Down Under.

The Wind Explorer's high energy efficiency also comes from lightweight materials and a rubber formulation that reduces the rolling resistance of its tires.

The electric car was constructed from Evonik's Rohacell sandwich carbon fiber, which reduced the body weight and makes travel by kite that much easier.

The Wind Explorer is capable of generating enough energy to move 175 to 225 miles a day, powered by its **onboard wind turbine**. "The technologies in the Wind Explorer are examples of how our products can improve the resource-efficiency of automobiles," Tom Bates, president of Evonik, said in a press release.

While we won't see kite-cars on the roads, some of the technologies in the Wind Explorer could find their way to production vehicles. **Evonik has been working with Daimler for the past five years on a joint venture to produce li-ion batteries for Daimler's hybrids and EVs.**

ACTUAL PRESS RELEASE

Innovative Wind Explorer Cruised 3,000 Miles Across Australia For Less Than \$15

Evonik Corporation **is featuring** the Wind Explorer – a lightweight, electric vehicle that crossed Australia on less than \$15 of electricity – at its administrative center in Parsippany, N.J.

The vehicle, piloted by German extreme sportsmen Dirk Gion and Stefan Simmerer, ran on a lithium-ion battery developed from Evonik's LITARION® electrodes and SEPARION® ceramic separators. The SEPARION® technology is manufactured exclusively by Evonik and allows the battery cells to store energy generated from a portable wind turbine. Evonik's silica-silane technology for rubber formulation reduced the rolling resistance of the vehicle's tires, lowering fuel consumption and carbon dioxide emissions.

"The Wind Explorer demonstrates how environmentally-friendly automobiles can be today and showcases Evonik's drive for sustainability," said Tom Bates, president of Evonik Corporation. "Evonik continuously seeks to help our customers enhance their products. The technologies in the Wind Explorer are examples of how our products can improve the resource-efficiency of automobiles."

The vehicle produced virtually zero emissions during the 3,000 mile Australian journey, a distance roughly 200 miles further than from New York City to Los Angeles. The Wind Explorer was constructed from Evonik's ROHACELL® sandwich carbon fiber, reducing the body's weight to allow the vehicle to travel hundreds of miles by kite. The Wind Explorer was so resource efficient that the wind turbine carried aboard could produce enough energy to travel 175-225 miles a day.

"We are very excited to have the Wind Explorer here in Parsippany," said Dr. Peter Knopf, vice president and head of regional services at Evonik Corporation. "This is a remarkable vehicle highlighting some of our most innovative technologies. Now we will be able to give our employees and visitors an opportunity to see first-hand how Evonik is bringing value and creative solutions to the automotive industry."

The Wind Explorer pilots set three world records during their coast-to-coast trip across Australia, including the first time a continent had been crossed by a vehicle powered by wind and lithium-ion batteries, the longest overall distance covered by an exclusively wind-powered automobile, and the longest distance covered in 36 hours by an electric and wind-powered vehicle.

For additional information about Evonik in North America, please visit our website: www.evonik.com/north-america. Please visit us on Facebook at www.facebook.com/EvonikNorthAmerica. Follow us on Twitter at http://twitter.com/EvonikN_America.

About Evonik

Evonik, the creative industrial group from Germany, is one of the world leaders in specialty chemicals. Its activities focus on the key megatrends health, nutrition, resource efficiency and globalization. Profitable growth and a sustained increase in the value of the company form the heart of Evonik's corporate strategy. Evonik benefits specifically from its innovative prowess and integrated technology platforms.

Evonik is active in over 100 countries around the world. In fiscal 2011 more than 33,000 employees generated sales of around €14.5 billion and an operating profit (adjusted EBITDA) of about €2.8 billion.



EVONIK
INDUSTRIES

Tom Dulaney

In other news... Digital Trends recently outlined their favorite EV's, here's one that caught my eye.



Built by Britain's the Lighting Car Company, the Lighting GT is yet another battery-powered electric supercar looking to battle it out with the likes of electric sport car makers Fisker Automotive and Tesla Motors. Visually, the Lighting GT is striking in a much more conventional manner than some of its counterparts and forgoes any real obvious electric styling cues one might typically find on a car of its kind. Of course breaking successfully into the elite supercar scene (and staying there) is difficult enough for even the sportiest and finely crafted gasoline chuggers, let alone battery-powered models. But LCC believes that the Lighting GT will be able to deliver the goods thanks to the car's advanced Lithium Titanate battery, 150 mile range (225 with optional range extender pack), and claimed recharge time of 10 minutes. Rounding out the Lighting GT's performance specs is a 300kW (400hp) twin motor powertrain that provides the GT with an estimated 0-60 time of just under 5 seconds and an electronically limited top speed of 125 mph.

For those interested in purchasing the Lighting GT it remains in development.

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

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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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