



May 2015 FVEAA Newsletter

Fox Valley Electric Auto Association

The FVEAA is a Not-For-Profit Illinois Corporation and the Chicago-area chapter of The Electric Auto Association

Next Meeting

Friday May 15, 2015

Community Christian Church

1635 Emerson Lane

Naperville, IL 60544

[Google Map](#)

Agenda

- 6:30 p.m. Doors Open
- 7:00 Call to Order, Welcome and Introductions
- 7:15 Old Business (including Motion on dues) and New Business, Committee Reports
- 7:30 Electric Vehicle update
- 7:40 Take Charge and Go EV Tags
- 7:50 Announcement and Break
- 8:25 Presentation: Steve Trkla - President and GM of Torqeedo - on Electric propulsion systems for boating applications.
- 9:15 Close

President's Words

Bruce Jones

Hi Everyone,

Last month we had Klara Nahrstedt from the University of Illinois, Urbana-Champaign speak to us on the future of electric roadways and implications for security and utilities. Thanks to Klara for a truly fascinating presentation!

Supplemental PHEV

In the recent Electric Auto Association newsletter there is an excellent article on the conversion of Ford-150 pickup trucks using various configurations of batteries and dual electric motors connected to the drive shaft. The article is much too large to summarize here but for those seriously interested in doing a conversion like this, a book with all the details can be purchased at the following link.

<http://www.amazon.com/Plug-Hybrid-Pickup-Trucks-Conversion/dp/1507632819>

And here's a plug for those looking for more in-depth electrical vehicle information - join the [Electric Auto Association](#) at www.electrcauto.org They are our parent organization and not only will you find a ton of articles and information on electric vehicles, part of the yearly subscription actually comes back us, the local chapter. Note that for the FVEAA to be an official chapter at least two of our officers need to be members of the parent EAA organization. . . and thanks to Jeff Miller for recently signing up!

Build-EV and the The Green Electric Project

John Emde and John Jeide have been involved in designing and building electric vehicles for over 30 years. Their efforts (along with Rich Carroll in their previous Pioneer Conversions company) are what helped build the electric vehicle industry we know today. . . true pioneers. So if you are looking for assistance in building an EV please check out John and John at their shop at: <http://tgeponline.com/commercial/page-24>

840 Brian Drive, Suite A

Crest Hill, IL - 60403

Tel (630) 847-1421

MEMBERSHIP

if you are interested in “club promotions” such as putting ads in newspapers, getting the word out in social media, making phone calls to previous members, inviting other groups to meetings or sending a newsletter to someone new, let me know. Let’s pump our membership back up!

See you Friday!

Sincerely,

Bruce

FVEAA is on Facebook - Like Us!

Grant Gerke

<https://www.facebook.com/FoxValleyElectricAutoAssociation>

This Month’s Presentations

- Steve Trkla - President and General Manager of Torqeedo will speak on electric propulsion systems for the boating industry. Last September we heard from Ray Christie who used Torqeedo motors in his solar powered canoe which traveled down the Mississippi. And we appreciate Jim Schmidt (“resident electric boat guy”) for linking us with Steve to be here.

Membership Update

Ted Lowe

We currently have **84** paid-up members, 2 down from last month. We live in a large metro area with 8 million people and EVs are the latest buzz so we should be able to grow the FVEAA! **Please invite your friends, neighbors, family, colleagues**, etc. to FVEAA meetings and Events. Volunteer to attend Events on behalf of the FVEAA (with or without an EV)! Your ideas on how to help grow the FVEAA are welcomed at anytime, thanks! Howard Hansen had a **great idea**... giving an FVEAA membership as a gift!



FVEAA Membership Report

as of 2015-05-11 04:58:08

Count of Members by Type

Membership Type	Count	Paid Up
BusinessCharter	1	1
BusinessPremier	1	1
BusinessStd	3	3
Family	10	10
Individual	69	67
LifetimeInd	2	2
Totals	86	84

Other Statistics

Statistic	Value
% Paid Up	97.7%
Avg. Paid Up Days	211.2 days
% With Email	95.3%

Photos



Klara Nahrstedt speaks about the electric roadways of the future and inductive (wireless) charging



George Vladic's plug-in Prius he converted from a standard Prius



George Vladic explains the battery technology he incorporated into his expanded range Plug-In Prius



The Prius draws a crowd



Interior of George's Prius



Charge!

Meeting Minutes

The meeting was opened at 7:00 p.m.

President Bruce Jones asked attendees and newcomers to introduce themselves.

Bruce provided a quick review of EV highlights, including statistics on Tesla - half of all states don't allow Tesla sales due to efforts by the auto dealer associations and other groups. But Tesla is still on a roll with a new 4-wheel drive \$75,000 Tesla Model S 70D: AWD, 240-Mile Range as new base version.

Sadly the Illinois Green Fleets EV rebate program has been discontinued (the one that used to provide a 10% rebate, up to \$4000) as a state-funded rebates for electric vehicles.

Illinois has paid out \$14 Million Since 1998 for 13,000 alternative-fuel vehicles per a recent article.

But the article says state is (supposedly) still providing up to \$3,000 towards the cost of installing an electric-vehicle charging station. Hopefully that will happen and we'll see a rebate for the charging station at CCC. See the article

<http://www.autoblog.com/2015/03/31/illinois-pulls-plug-on-state-funded-rebates-for-electric-vehicle/>

Presentation – Klara Nahrstedt provided a fascinating presentation on "Trustworthy Cyber-Physical Infrastructure for Electrical Vehicles"

Note if you would like to review the meeting presentation, and Klara Nahrstedt's presentation see them on our File Bank at the following links:

Klara's presentation can be found at http://www.fveaa.org/fb/FVEAA.2015_Klara_Nahrstedt_450.pptx

Meeting presentation can be found at: http://www.fveaa.org/fb/2015-04-17_FVEAA_Meeting_449.ppt

Rich Carroll made a motion in the March Newsletter to lower the dues to \$10 from \$20 to help encourage membership. The meeting ran long and we need a second and then vote. Motion to Reduce Yearly Dues was postponed until next month when we have enough members to vote.

Meeting was adjourned at 9:30 p.m.

Rich's Ramblings

Rich Carroll

Racing season has started for two of the interesting venues for electric vehicle enthusiasts. The annual Pikes Peak International Hill Climb has announced the entry list for 2015. My personal favorite is again in an electric, again of his own design. Nobuhiro 'Monster' Tajima is a 64 year old hillclimb racer with fantastic credentials and a tuning shop owner in Japan. In the past, he has had six consecutive wins in the Unlimited Division, and has been building and driving electric vehicles of his own design since 2012, and has wins in the Electric Class in 2013 and 2014. There are electric entries from Rhys and Ryan Millen, brothers from New Zealand, and known to be extremely competitive. Rhys competes in the Formula D drifting series with great success, and has won the Rear Wheel Drive class at Pikes Peak before. In addition to his drifting competition, he occasionally races off road in cars and trucks, and is a professional stunt driver with a long list of feature movies and commercials. Ryan also races off road, on road, does commercials and does professional driving coaching. Rhys and Ryan are trying to follow their father's (Rod Miller) tire tracks, as dad has five overall wins at Pikes Peak. Rhys is driving a car he built, currently named the PP03, and Ryan is driving a very much modified Toyota RAV4 EV. Race day is June 28, and there is usually a very good media feed on this event.

And on a different front, but also racing electrics are the competitors in Formula E. These are full circuit race cars that initially look like Formula 1 racers, but sound completely different. FIA (the France based International Automobile Federation) has established a set of rules for the Formula E cars that was very restrictive for the first year, and allows more freedom as the years progress. FIA wanted to make sure all

teams were competitive from the start, so all cars for the first season are Dallara built carbon fiber and aluminum chassis, all have Williams Advanced Engineering Battery packs and controllers and Hewland 5 speed gearboxes with fixed ratios. Next year motors, inverters, transmissions, cooling and some suspension parts may be substituted. As the years go on, more specifications will become an open spec, but for now teams choices are fairly tightly regulated. Their calendar started with Beijing, Malaysia, Uruguay and Buenos Aires, then on to Miami in March, Long Beach in April, and later in the summer: Monaco, Berlin, Moscow and London. This is a very impressive series, with a very significant money investment (I almost said dollar, but I'm afraid that a lot of the investment is other currencies.) So, we are six races in, and which team seems to be the most impressive? Good question. Right now, e.dams-Renault is the team in first, and it isn't close. The fact that Renault and their financial partner Nissan are certainly one of the best sellers of Electric Vehicles in the world is not lost on many observers. Audi is in second place as a team, which doesn't seem surprising, but the other teams don't have a manufacturer's name along with them is quite interesting. If you look at the driver's standings, things get much blurrier. A few names near the top are drivers who have done well in Formula 1, but you have to look all the way down to 13th place overall (Scott Speed) and 26th overall (Marco Andretti) to see an American driver. If you get a chance follow a race, and know that the cars are pretty equivalent at this point. Each car/driver is allowed to use 5 seconds of a power boost in each race (about 20% more power). This power boost is really limited during the race, but is fully allowed during practice and qualifying. An interesting means of reducing the battery power needed. My take on the Formula E racing is that this will catch on, big, even without the screaming noise of the Formula 1 engines. When in doubt, follow the money, and there is an extreme investment in Formula E.

Membership Form

Ted Lowe

FVEAA Membership Application Form - Version 2014-01-01

Name: _____
 Address: _____
 City, State Zipcode: _____
 Phone: _____ Phone Type: Home ___ Work ___ Cell ___
 Email: _____
 Please check one: New Member _____ Renewal _____

How did you hear about the FVEAA ? _____

Membership Types and Annual Dues (please circle one):

Individual	\$20
Business	\$100
Premier Business	\$250
Charter Business	\$500

Newsletter Delivery Type (please circle one): No Newsletter Electronic

Please make checks payable to "FVEAA" and postal mail it with this membership application form to:

FVEAA
PO Box 214
Wheaton, IL 60187-0214
 Attn: Membership



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The ComEd Residential Real-Time Pricing (RRTP) program is an hourly pricing program for residential customers. This program allows you to pay the hourly, market price for electricity. With real-time hourly market prices, it is possible for the price of electricity to be negative for short periods of time, typically in the middle of the night. Since ComEd RRTP participants pay the market price of electricity (with no markup), they are actually being paid to use electricity during negative priced hours, making it an ideal fit for electric vehicle owners who charge at night. Contact an RRTP specialist to see if you are a good fit for the program.

Bill Jacobs 

Bill Jacobs BMW

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