



June 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 June 19, 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 and New Business, Committee Reports
- 7:20 Honoring John Emde with Lifetime Membership
- 7:30 Electric Vehicle update
- 7:40 Presentation: Tim Goebel from Commute Connect -presentation and demo on the Electric Unicycle
- 7:50 Break
- Bruce Jones - Conversion of a 1930 Hupmobile Street Rod to Hybrid Electric
- 8:25 9:15 Close

President's Words

Bruce Jones

Hi Everyone,

Last month we had Steve Trkla, the president and GM of Torqeedo provide a fascinating talk on electric propulsion systems for watercraft. Their battery and electric motors provide a very wide range of applications from 1 to 80 hp and they are headquartered right out of Crystal Lake IL. Thanks Steve!

1930 Steel Street Rod

Well, after years of looking and dreaming, I finally found the car I had been looking for! But what's the best design for converting an antique street rod to hybrid electric (is it possible?) or full electric? This month we'll start to work on a unique new



project based on a 1930 Hupmobile all steel street rod. Okay so what's a Hupmobile? It's an actual car that was built by the Hupp Motor Company between 1909 and 1940 in Detroit.. It looks like a 1932 Ford which is something I've been wanting for years. Right now the car is being made "roadworthy" after being transported from north of Green Bay Wisconsin and needing some work to drive properly which is necessary before any conversion efforts begin.

Thanks SO MUCH!!! to Rich Carroll who provided the means, time and knowhow to help me haul this cool car down here from up north on April 26.

We will review the options and see if "hybridizing" it is even possible. I'll gather other ideas from the group and will be working with John Emde on final designs and implementation. Speaking of which. . . check out John Emde and John Jeide 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!

Apologies to George Gladic whose name I misspelled last month

See you Friday!

Sincerely,
Bruce

FVEAA is on Facebook - Like Us!

Grant Gerke

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

This Month's Presentations

- Tim Goebel - From Commute Connect will present and demonstrate their electric unicycles. Their company is based out of Highland Park and more information can be found at <http://www.commute-connect.com/>
- Bruce Jones - will discuss various options with the group on converting a 1930 Hupmobile all-street rod to a hybrid electric vehicle. Is it possible?

Membership Update

Ted Lowe

We currently have **88** paid-up members, 4 up from last month, including 2 new business members, Habi-Tek and Battery Giant! 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 EEvents. Volunteer to attend EEvents 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 2015-06-16 04:58:10

Count of Members by Type

Membership Type	Count	Paid Up
BusinessCharter	1	1
BusinessPremier	1	1
BusinessStd	5	5
Family	10	10
Individual	69	69
LifetimeInd	2	2
Totals	88	88

Other Statistics

Statistic	Value
% Paid Up	100.0%
Avg. Paid Up Days	192.1 days
% With Email	95.5%

Photos



Scott Taylor's electric scooter



The Z20 Electric Scooter



Jim Schmidt introduces Steve Trkla



Steve Trkla, President and GM of Torqeedo talked about their wide range of electric motors and battery

systems for various boats and watercraft



George Gladic (L) with George Hiller discussing his fully electric Mazda Miata



The Miata custom electric motor configuration that George Hiller created

Meeting Minutes

Jeff Miller

The meeting was opened at 7:05 by Bruce Jones

Audience members introduced themselves

- Member converting a zero turn lawn mower to electric using a GE motor and 8 or so lead acid batteries out of the Altria Force he bought from Todd Martin.
- We have a new Business member, Todd that does solar installations.
- Sam (visitor) wants to learn about EV's
- Scott Taylor has a scooter at the meeting, 60 Volts
- Bruce asked if anyone was interested in being Secretary and there were no other volunteers.

Old Business

- Motion (from Rich Carroll's March newsletter) to reduce the annual dues from \$20 to \$10
- Rich Hirschberg seconded the motion.
- Discussion included recommending we lower dues for six months to see if that would help but due complexity of tracking and other reasons, the six month idea was quickly squashed.
- Jim thinks it is a fair amount and thinks we should spend some treasury money on promoting the club.
- Jeff Miller proposed moving our membership to the EAA as the members would get more for the same money. The FVEAA would still get about 10 dollars per member.
- Ted thinks it isn't broken and he is happy with where we are and doesn't want to change anything.
- Mass mailing, Money sitting idle doing nothing members want to see us sort out ways of utilizing our resources to further the cause of the Electric Vehicle.
- The vote
- 2 people voted to lower the dues to \$10
- 15 people voted to keep the dues at \$20
- Motion failed

Promotions

- Suggestions were made to more heavily pursue social media. Build the momentum for the club that

way. Put the burn out videos (like White Zombie) on youtube

- Geneva Thursday car show during the summer
- Set up a meeting and collect the information and start going to the shows as best we can.
- Mundelein has a car show too.

Motion

- Ted Lowe suggests that John Emde should be given a life time membership as he has been a long standing lifetime membership and he has been a huge provider of knowledge.
- George seconded the motion
- 12 voted for it, none opposed
- There will be a celebration when we can schedule it.

Bruce presented EV news

- Model S 70D
- Model X August
- Solar powered Tree that charges cars. It is movable and quick to set up. Doesn't required outside power and has storage batteries.

Take Charge and Go Charging Etiquette hanger

Bruce handed out charging etiquette plug hangers that inform others if the electric vehicle charging plug can be used by someone else, or not.

Presentation

Steve Trkla, president and general manager of Torqeedo

Jim Schmidt did an introduction for Steve

Steve reviewed the many reasons to run an electric motor in the water, and Europe needs them for environmental purposes. He described the various motor configurations

39 mph production E-Boat

60k boat has a 52K system on it.

50,000 systems in the field

1 to 80HP

The meeting was adjourned at 9:25.

Rich's Ramblings

Rich Carroll

The electric vehicle world is just about to enter a new phase, one where EV's pay their share of road use taxes. In the past road use taxes were added to our fuel prices, both for gasoline and diesel fuel. Just how much we pay is somewhat hidden, because we pay for gasoline by the gallon, and the price we pay includes sales tax (based on % over cost) and federal gasoline taxes (based on 18.4 ¢ per gallon.) To add additional confusion, state and local sales taxes vary significantly by community. There is considerable variation from one incorporated area to another, one county to another, and whether the area is a home rule district. Sales tax usually runs from 7% to 10.75%. Since some of the taxes are percent based and some gallon based, it becomes a little more difficult to get an exact number. As of April 2015, the average fuel tax for gasoline in Illinois is 52.5¢ per gallon. Supposedly, this goes to maintaining roads and highway infrastructure. In Illinois, electric vehicles do not pay a share to the road use taxes. Hybrids and ultra high mileage vehicles pay less than comparably sized gasoline vehicles. Just to propose some numbers for comparison, we'll compare a 30 MPG car what is driven 15,000 miles a year. 15,000 miles per year ÷ 30 MPG means the vehicle consumed 500 gallons of gasoline per year, and if the tax is 52.5¢ per gallon. then that vehicle paid (500 gallons x \$0.525

dollars per gallon) or \$262.50 yearly in road use taxes, (hidden in the cost of the gasoline).

Oregon has started an alternative program, effective July 1, where residents can enroll in a program to pay 1.5¢ per mile. If they use fuel, they will receive rebates for the cost of the fuel. Calculations: 15,000 miles/year x \$0.015/ mile is \$225 per year.

For gasoline vehicles, the Oregon program allows residents who pay per mile rather than pay per gallon to save a small amount over the existing system. Using this system, EV's and hybrids do pay for highway and infrastructure replacement, not by a motor fuel tax but by a 'use tax', or as Oregon named it a Road Usage Charge.

Does this make sense for states to start to charge this way? Absolutely. I recently saw a Tesla in traffic with an EV plate with an Illinois EV plate number just over 4000. I am quite certain we'll have EV license 4500 in the near future, and if you assume average use of 15,000 miles per year, that is over a million dollars each year in new state funds. I know these OBDII printed circuit boards with communication can be purchased for around \$5 to \$8 each, so with distribution costs, the program might cost the state \$50,000 or \$70,000 to start.

But, there are some serious concerns by some drivers over the implementation. The OreGo (their name for the program) is implemented by a recording device that plugs into the OBDII port under the dash, and that device uses GPS to follow the vehicle and add up the miles traversed. The OreGo program has promised to use vendors that only report to the state the mileage, and do not report where your car was driven. **Law enforcement won't have access to individual data without a judge's order.** Recently a vendor was added to the program whose device does not include a GPS, simply a mileage recorder. Many citizens have serious privacy concerns with the new legislation, and refuse to participate, so the program has been limited to a voluntary test so far.

Please remember that this OBDII port that is used is the most common way that hackers can obtain access to your car for commands and information. Attaching a radio (bluetooth, wifi, and others) to the OBDII port creates a very serious security risk. Certainly, attaching a printed circuit board without knowing the contents in detail is quite foolish.

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

FVEAA Business Members



ELEVATE ENERGY

Smarter energy use for all

ComEd Residential Real-Time Pricing Program (linked to ComEd.com/RRTP)
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Chicago, IL 60607

Phone: 1-888-202-RRTP (7787)
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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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