



November 2016 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

November 18, 2016 7:00 p.m. to 9:30 p.m.

Community Christian Church

1635 Emerson Lane
Naperville, IL 60540

[Google Map](#)

Agenda

- 6:30 Doors open -> Sign-in Sheet, Tags
- 7:00 Call To Order, Welcome Introductions
- 7:10 Old Business / New Business
- 7:15 Committee Reports
- 7:20 Steve Cimino will talk about his seven years driving a Saturn Vue conversion
- Break
- 8:30 Bil Becker presenting "Solar Electric Consumer Cars"
- 9:15 Close

President's Words

Michael Willuweit

This month will bring an exciting meeting. We have two presentations that I can't wait to hear. The first will be by Steve Cimino who had been driving a converted Saturn Vue for the last seven years. From what I hear, he has over 70,000 electric miles on the car so his experience and insight on driving a conversion will be invaluable to those of us with a conversion and those who are thinking of putting one together. If you get to the meeting early, check out his car which should be on our J-1772 charger.

Speaking of conversions, long time club members might be pleased to hear that the Porsche 944 conversion hit the road for the first time this year. While my controller is still being upgraded and serviced in California John Emdee was nice enough to lend me a controller. It was great to be EV grinning behind the wheel of that car again, thanks John!

After the break Bill Becker will be presenting on flexible solar panels for cars. We've seen Toyota (Prius) and Nissan (Leaf SL) incorporate panels into roofs but they've never really been economical or efficient enough to warrant larger adoption. Can't wait to hear about recent developments and the future of panels on cars.

Another big thank you to Tom Brunka from Helwig Carbon for trekking all the way from Wisconsin to present last month. His talk was fascinating and informative about developments in electric motors and the future of brushes in electric motors.

This will be our last "regular" meeting of the year and it should be a good one so I hope you can make it. As for December we are still securing a location to meet, so stay tuned.

This Month's Presentations Nov 2016

- Steve Cimino will talk about his seven years driving a Saturn Vue conversion
- Bil Becker will be presenting at this meeting a fascinating talk on "Solar Electric Consumer Cars." Major strides are being made in the world of solar panels as well as electric vehicles so Bil will provide an update on the intersection of those technologies and it may be applied.

Photos of Last Meeting October 21, 2016

Bruce Jones



Tom Brunka presenting on electric motors and ways to handle arcing by using shaft grounding



Mike's iMiev (with the Compassion International exhibit in background (at CCC))

FVEAA Facebook Page - Like Us!

Grant Gerke

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

FVEAA Facebook Group - Join Us!

Ted Lowe

In October 2015, I created a Facebook group for the FVEAA and invited all the past and current FVEAA members I know that are on Facebook. There are 47 members so far. If you're on Facebook but not in the group, yet please join us! If you're not on Facebook yet, please consider joining so you can join our group there! This group will help to replace our forums because it is much easier to use, read, post pictures and videos and get notifications. Please let me know if you have any questions/comments/suggestions. Hope to see you there! <https://www.facebook.com/groups/889497691136309/>

The federal government has announced a system of electric vehicle charging corridors across the US. There will be 48 of these high speed charging corridors, covering almost 25,000 miles in 35 states. The Department of Transportation's goal is to have a high speed charging station available every 50 miles or less. This will enable coast to coast zero emission mobility. Twenty eight states (not including Illinois) have agreed to partner with DOT to hasten the deployment of these electric vehicle stations in the DOT corridors. In addition, 24 states (but not including Illinois) and local governments (but not Chicago, or any of the counties or municipal areas in northeast Illinois) have announced a partnership with the administration to increase the number of EV's in their fleets. Ideal charging deployment scenarios are yet to be determined, subject to two studies the Department of Energy is conducting. In addition the Department of Energy is continuing its Workplace Charging Challenge, and has signed up 38 new businesses, non-profits, universities, and utilities. Most of this is current news, from the White House Press Room. <https://goo.gl/eY62XQ> (dated 11/3/16)

The Federal Highway Administration has identified the carbon dioxide emissions from motor vehicles, which are the second-largest single source of pollution causing climate change. (behind the electric power sector.)

These corridors will be an important part of the federal government's plan to cut greenhouse gas emissions by 80% by the year 2050. This piggybacks and compliments the White House announcement in July of 4.5 billion dollars in loan guarantees to companies who are building EV charging stations nationwide.

The White House announcement seems to indicate a coordinated effort by the Fed. Highway Administration, the DOT, the DOE, and the Executive Branch of the government. There certainly will be difficulties along the way, but this sounds like a wonderful start to a solution to a very important problem.

Membership Update

Ted Lowe

We currently have **65 active paid-up** members!



FVEAA Membership Report

as of 2016-11-14 04:58:03

Count of Members by Type

Membership Type	Count	Paid Up
BusinessPremier	1	1
BusinessStd	2	2
Family	6	6
Individual	53	52
LifetimeInd	3	3
Totals	65	64

Other Statistics

Statistic	Value
% Paid Up	98.5%
Avg. Paid Up Days	207.5 days
% With Email	95.4%

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!

Our membership system sends out “renewal reminder emails” before your membership is due. You will receive up to 3 before being marked “not renewed” (inactive). The sooner you renew, the fewer emails you will receive :)

So please pay attention to your email from the FVEAA and renew online using this link (for the easiest approach for all of us):

<http://www.fveaa.org/renew>

THANK YOU for your continued support of the FVEAA!

Here are the minutes from our October meeting

6:30 Doors opened and folks signed in

7:00 Call To Order and welcome Introductions by president Mike Willuweit

7:10 Mike went through Old Business / New Business

Noted that 2 Brothers Brewery in North Aurora no longer has the Tesla charging stations but are now located near the 88 tollway at Woodman's Markets 151 Hansen Blvd [Tesla Superchargers North Aurora](#)

7:15 Brief Committee reports

7:20 We reviewed recent outreach events

Bob Baker reviewed the NDEW event in Lake Barrington on Sat Sept 17th.

Noted that Scott Wilkenson had a 1978 Triumph Spitfire Conversion at the NDEW (not a Spyder as shown on the slide)

Bruce Jones described the NDEW event at Naperville Test Track Sun Sept 18th.

Break

8:30 Tom Brunka presented on “Bearing Protection Through Shaft Grounding” or “I have an AC Motor Why Do I Need Brushes?”

The presentation focused on the difficult to detect but damaging electrical shorts that occur due to pulse code modulation voltages seeking ground in your electric motor. AC as well as DC electric motors are grounded on the exterior, but the internal spinning motor is not typically grounded.. Therefore arcing regularly occur through the bearings of the electric motor. Resolution is found in the form of a brush device mounted on the shaft (or other methods) that ground the damaging voltages.

Thanks Tom for making it all the way from Wisconsin to present that excellent talk!!

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



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Elevate Energy
Mary Jo Warskow
300 S Green St, Suite 300
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—Daniel H., Hourly Pricing participant since 2015

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Michael Bradley
18600 IL-59
Shorewood, IL 60404
Phone: 708-669-9402
Email: besthybridbatteries@gmail.com
Web: www.besthybridbatteries.com