



August 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

August 19, 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 Polo Shirts
- 7:30 Recent Outreach Events
- 7:45 Bob Baker - NDEW event in Lake Barrington on Sat Sept 17th.
- 7:50 NDEW Planning
- 8:00 September Election Nominations open
- Special presentation
- Break
- 8:40 Mike Willuweit - Plug Share
- 9:00 The Chevrolet Volt, then and now, old versus new (if time allows)
- 9:15 Close

President's Words

Bruce Jones

Hi EVeryone;

Last month we had a great meeting with Rich Carroll taking us through a fun game of Electric Vehicle Jeopardy. We're not sure who won but it sure was entertaining. And thanks to Marty Belovitz who was able to work out the technical aspects and get it running for him.

Ted Lowe then brought us up to speed on the Dodge Dakota and its conversion from lead acid batteries to Lithium, describing the significant effort to build the Kevlar battery boxes. Next Ted will push for the final conversion to be completed before Fall. Go Ted! Hoping to see you at the NDEW event in Sept.

Polo Shirts

We received new batch of FVEAA polo shirts so bring \$20 to the next meeting if you want one!

July 30, 2016 Cary Cary Show

Bob Baker organized a car show at the Cary United Methodist Church in Cary, IL on July 30th. Rich Rezny, showed up with his Ford Focus Electric along with Bob's Electric Honda, Maureen and me with my Hupmobile, and it was a lot of fun. Thanks a bunch everyone!



Bob Baker (right) with son Pat ran the Cary United Methodist Church car show on July 30.



Bob's Circa 1903 antique vehicle

Aug. 13, Green Fair on the Fox

For the Green Fair, Mike Willuweit came with his family, and Rich Rezny and I participated at the beautiful North island location on the Fox River in Batavia.. Besides the iMiev, Hupmobile and Ford Focus, a Tesla Model S owned by Bob Flora and a Model X SUV driven by his wife Marilynne rounded out the field. Bob and Marilynne were wonderful spokes-persons for the EVs and a lot of fun as we talked to a steady stream of people interested in them.

One little girl (Katya?) about 3 years old got in the Hupmobile and liked it so much she didn't want to leave!



Rich Rezny shows off the advantages of full electric power in his Ford Focus Electric.



Katya(sp?) had so much fun in the Hupmobile she didn't want to leave! (permission for posting her photo provided by her mother)



Bob and Marilynne Flora with their beautiful Tesla Model X (left) and Model S (right) had a great time talking with everyone who stopped by to see these super electric cars.



Mike Willuweit and his Mitsubishi iMiev



A beautiful day at the Green Fair on the Fox Aug. 13, 2016



Love those Model X Gull Wing doors!

Coming Events →

- Event: **IL Renewable Energy Association Sustainability Fair** (Jeff Green)
Date: Saturday Aug 20, 815-732-7332 www.illinoisrenew.org
Location: Located at the Ogle County Fairgrounds, Oregon, IL
- Event: **National Drive Electric Week EVENT 1 <<NEW**
Date: Saturday September 17, 2016,
Setup 11:00 a.m. opens at Noon,.to 3 p.m. take down afterwards
Location: Bob's Hillview Auto at 4 Hillview Dr, Lake Barrington, IL 60010
- Event: **National Drive Electric Week EVENT 2**
Date: Sunday September 18, 2016,
Times: Setup at Noon, present from 1 p.m.to 4 pm, then pizza!
Location: Naperville Test Track, 1720 West Jefferson Ave. Naperville
Naperville Test Track 1720 W Jefferson in Naperville

Election Nominations Open this Meeting

Nominations will be opened and will remain open until we hold elections at the next meeting Sept.16th, 201.

Current officers are listed below.

- President: Bruce Jones
- Vice President: Rich Hirschberg
- Treasurer: Jeffrey Miller

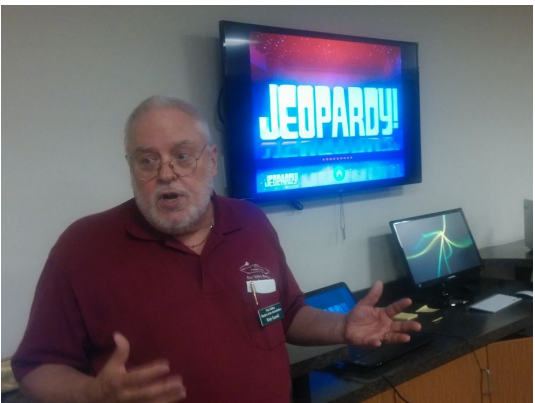
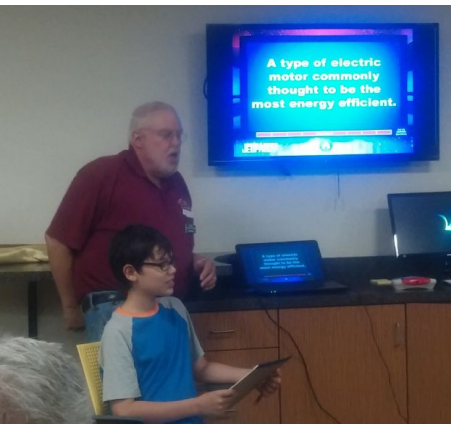
- Secretary: Mike Willuweit
- Board: Rich Carroll, Jim Schmidt, (open)

Hope everyone is having a wonderful Summer, see you Friday!
Sincerely, Bruce Jones

This Month's Presentations July 15, 2016

- Mike Willuweit will present on the PlugShare web site and possibly others that do a great job of showing which charging stations are available
- Bruce will compare the old vs. new Chevy Volt and what it has to offer

Photos of Last Meeting July 15, 2016 Bruce Jones

	
<p>Dr. Rich Carroll interacts with the group on a great game of Electric Vehicle Jeopardy!</p>	<p>Scott Miller helps Dr. Rich Carroll with EV Jeopardy!</p>

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/>

Rich's Ramblings Rich Carroll

Car hackings are again in the news this month, and although one of the hacks made headlines, but isn't

worrisome, the other one is very worrisome. Why are these articles current? Basically there were three major gatherings of hackers this month, were researchers presented their latest work, mostly to the surprise of journalists and not a surprise to other hackers.

Let's start by getting the non worrisome hack explained. The same researchers who were able to control a car by bluetooth communications before are at it again. Last time, they were able to take a car, connect via bluetooth and set the brakes and turn the steering wheel. They demonstrated their hack at low speeds, but it became obvious that while they could connect to the car and control the brakes and steering, they did so only at low speeds, test speeds, if you would. Their hack last time was wireless, and required someone to put a bluetooth receiver on the OBDII port in the car. I'm sure you have seen "Flo" from a major insurance company urge you to put one on your car to save money. But in their past hack, they needed to put this bluetooth transceiver into your car, under the steering wheel, connected to the OBDII port. Once connected, you would not be aware of it's existence. A valet parker, or a dishonest service person could very easily do this. In the hack released this month, they have gotten around the test mode, and can turn the car full right turn or completely disable the brakes, not at 4 MPH, but now at 30 MPH (Or as high a speed as they dare.) The caveat: they haven't done it wirelessly (yet) and need a laptop in your front seat with one of the researchers issuing commands. I'm not scared by this, YET!

In a series of burglaries in Houston, cars have been stolen by thieves using only a laptop. The surprise here is not that they can control the car, but they can defeat the steering column lock that locks the steering. Watch the video at: <http://www.cbsnews.com/live/video/heres-what-it-takes-to-hack-a-car/> Thieves use rods and shafts to slide inside doors, to pop the lock, then connect to the OBDII port. At that point, they issue a few standard commands, and drive away. Houston Police think this two man team has stolen more than 100 cars, taking them to sell in Mexico. Read: <http://thehackernews.com/2015/07/car-hacking-jeep.html>

But the one that I find the scariest is the VW Keyfob vulnerability. Hackers can simulate the signals from your key fob in almost any VW made since 1995. Some Audis, Fiats and Fords use the exact same system and are also vulnerable. See <http://thehackernews.com/2016/08/hack-unlock-car-door.html> By the way, Hacker News will offer a free subscription so you can stay current. The two systems they describe in this article are super easy to put together, which allow them to get into and steal your car (or perhaps just some expensive pieces) I know of one group of thieves that stole digital dashboards on demand. To replace a digital dashboard at the dealership might cost several thousand dollars and mandate an expensive diagnostic scan to correct the odometer, which has to be correct under federal law. Thieves don't worry if the dashboard they steal has the correct mileage, but if the dealership uses an incorrect mileage, they are liable for thousands of dollars in fines.

For a pretty good explanation of how hackers can get the codes for most cars and most garage door openers, read about "RollJam" at <http://thehackernews.com/2015/08/rolljam-unlock-car-garage.html> At this point, I am almost to the point of making my 1966 Corvair Corsa to be a daily driver. No OBDII, no radio transmitters, in fact the only real 'electronics' in the car are the original AM-FM radio. Turn signals are flashed by heating a bimetal spring, no electronics. Ignition is points and a condenser and a coil. Even the gas gauge has a variable resistance in the sending unit and a mini voltmeter labelled E - ½ - F for a gas gauge. You can't hack it if it isn't there.

Membership Update

Ted Lowe

We currently have **86 active paid-up** members!

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 2016-08-16 04:58:08

Count of Members by Type

Membership Type	Count	Paid Up
BusinessPremier	1	1
BusinessStd	2	2
Family	8	8
Individual	72	72
LifetimeInd	3	3
Totals	86	86

Other Statistics

Statistic	Value
% Paid Up	100.0%
Avg. Paid Up Days	151.3 days
% With Email	96.5%

Meeting Minutes - July 15,, 2016

Mike Willuweit

7pm call to order and introductions. Favorite car colors were discussed

7:39 Old business

Discussed June meeting

New Business

Continue plans on this year's National Drive Electric Week (NDEW)

Rich H. still working hard on getting the second location of Spring Hill Mall for this year. Naperville event will be 9/18/16.

Discussed upcoming events.

Bob Baker car show 7/30

Green fair on the Fox 8/13

Illinois Renewable Energy association Sustainability fair in Oregon IL 8/20

Committee Reports

EV Jeopardy Dr. RICH Carroll

Ted Lowe presented on his composite Kevlar battery boxes.

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



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—Daniel H., Hourly Pricing participant since 2015

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