



October 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

October 21, 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 Review of Recent Outreach Events
 - Bob Baker - NDEW event in Lake Barrington on Sat Sept 17th.
 - Bruce Jones – NDEW event at Naperville Test Track Sun Sept 18th
- Break
- 8:30 Tom Brunka presenting “Bearing Protection Through Shaft Grounding” or “I have an AC Motor Why Do I Need Brushes?”
- 9:15 Close

President's Words

Michael Willuweit

I'd like to begin my remarks and tenure as President of the FVEAA by acknowledging the great leadership and stewardship of the club by Bruce Jones. Bruce did a great job organizing wonderful meetings and outings. I'm glad he has remained on the board, his guidance will be needed and appreciated.

This September saw the FVEAA host two events for the National Drive Electric Week. For those who attended, it certainly was a great time to gather and talk to people who have taken the EV plunge, or even get behind the wheel of an EV – including some fun test drives of various Teslas. A big thank you to all that made that event possible. Personally, it was a treat to lead our EV parade of 24 vehicles down Ogden Avenue and Route 59. We turned a lot of heads with our caravan of electric power. Let's make next year's parade even bigger!

For those who do not know me, I currently teach Social Sciences at Wheaton Warrenville South High School. I have two children who can't wait to get behind the wheel of an EV – they've already driven an electric 'Power Wheel' and electric Razor scooter. I currently drive an all-electric Mitsubishi I-MiEV and also own the FVEAA former club project car, a 1985 Porsche 944, that I converted to run on Lithium batteries two years ago. Even my wife prefers an all-electric drive in her 2012 Plug-in Prius.

I look forward to October's meeting and working as President of the FVEAA to continue our mission to promote and advocate the use of electric vehicles.

NATIONAL DRIVE ELECTRIC WEEK

- Event: **National Drive Electric Week EVENT 1** Results > [NDEW Lake Barrington Sat Sept 17](#)
Date: Saturday **September 17, 2016**,



Bob Baker's 1st NDEW event in Lake Barrington Sept 17, 2016



Scott Wilkenson shows John Emde his nice 1978 Spitfire EV Conversion



Jim Marconi and his gorgeous Fisker Karma



2016 Porsche Panamera E-Hybrid From Barrington MotorWerks



Steve Ledger's beautiful 1994 Jeep EV Conversion



A couple of Volts from Dave Swingle



Bob Baker hosts and Marty Belovicz provides the sound



Ford CMAX Hybrid

- Event: **National Drive Electric Week EVENT 2 Results** > [NDEW Naperville Sun Sept 18](#)
Date: **Sunday September 18, 2016,**



Naperville NDEW Event 9/18/2016



After the parade the 1930 Hupmobile PHEV with FVEEA magnetic sign on the trunk



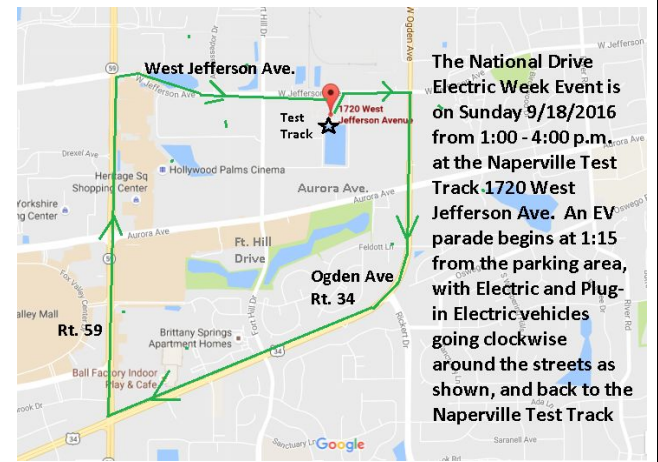
Maureen gives a wave to Nicolette in the Red Tesla model S



Jeff Miller and Matt Remec man the FVEEA booth and sign-in table respectively



EVs lined up waiting for a trip around the track



The National Drive Electric Week Event is on Sunday 9/18/2016 from 1:00 - 4:00 p.m. at the Naperville Test Track 1720 West Jefferson Ave. An EV parade begins at 1:15 from the parking area, with Electric and Plug-in Electric vehicles going clockwise around the streets as shown, and back to the Naperville Test Track

Parade Route!

Congratulations to the NEW Officers elected September 16.

- President: Mike Willuweit
- Vice President: Rich Hirschberg
- Treasurer: Jeffrey Miller
- Secretary: Bruce Jones
- Board: John Emde, Bob Baker, Marty Belovicz

This Month's Presentations Sept 9th 2016

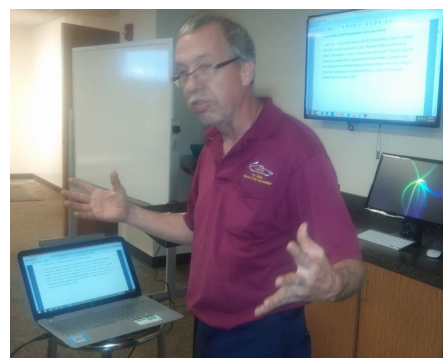
- We'll review the two successful National Drive Electric Events, one in Lake Barrington organized by Bob Baker and then the Naperville test track event. Beautiful weather, lot of great guests and a whole host of exotic and interesting electric cars showed up!
- Tom Brunka with Helwig Corp. will be traveling down from Wisconsin to the FVEAA meeting and he'll be speaking on "Bearing protection through shaft grounding" or "I have an AC motor why do I need brushes?"

Photos of Last Meeting September 16, 2016

Bruce Jones



Fred Kitsch (center) shows his Smart ForTwo



Sept.16 Bob Baker expounds upon the future of electric automobiles and transportation



Mitsubishis getting a charge



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

More information has crossed my desk relating to hacking. Perhaps my horizons have broadened; I recently subscribed to [The Hacker News](#). By the way, Hackers, by definition are not evil people, there are well known Black Hats and White Hats, along with many in between. Hackers that work for good, probe known computer systems (including web pages, databases, password files, etc.) trying to find vulnerabilities so they can be closed or patched before anything malicious happens. While oversimplification is not a good way to think about hackers, White Hat Hackers announce their exploits and show the vulnerabilities and publicize those on the web. White Hats are helpful to business, and easy to find. Black Hat hackers are more difficult to find, and seldom announce their exploits. They almost never share their discoveries, except to barter for something else. Occasionally you can find them on the "Dark Web."

What's the Dark Web? With normal web browsers, sites have the ability to track you by several means, and this produces a better web experience. You can reduce the ability of sites to track you, but it is very difficult to reduce your visibility completely on the regular World Wide Web. But, if you download a TOR browser, you can be relatively assured that you can work and find virtually anything. These browsers completely hide your details by relaying the messages through several anonymizing servers between you and the material. Did you want to buy a "One time, guaranteed to work, gift card for \$100 for Jewel Foods. \$50." But do you trust sending your money to someone who is already offering illegal transactions?

Back to hacking, let's confine the discussion to cars and transportation and the White Hat version of hackers. A recent scientific study, entitled "Green Forever: Analyzine the Security of Traffic Infrastructure" (<https://www.usenix.org/system/files/conference/woot14/woot14-ghena.pdf>), points out the ways to 'hack' into, or more appropriately simply "open" the settings on parts of the traffic infrastructure that deal with communicating the current, moment to moment traffic flow through an area to the next area, so that the next

area can make some appropriate changes to the traffic signal patterns. Basically, this is how to make a traffic signal appropriately control the NEXT signal so traffic flows smoothly. Most traffic signals in large urban areas are networked, and rather than protected with a vault and a lock, are in a simple box with no or minimal locking functions. In almost all cases, a "hacker" tries a password to get in, sometimes forcing the system to answer several thousand requests a second, trying "password" and "Password" and "P4ssw0rd" and similar.

With permission of the road agency in Michigan, the hackers found almost nonexistent security protections. Completely unlocked cabinets were common, and the password that worked on most systems was the exact same password that the company ships all such systems with. Owners are told to change them, but many did not, due to the inability to contact everyone who SHOULD know the password. Worse yet, most were on the same, default subnet, exactly the way they left the factory. Yes, the systems work, but a 20 second Google search can determine the default password. And in the case of one system that had its password changed, the button to reset to factory defaults was completely unprotected, allowing any hacker to change the system back to the password that the hacker expected. This means hackers can set the lights to very extended intervals on the road leading away from the area, and very short intervals for any cross traffic. (While they can certainly prolong the green lights they want, they are not able to show green in all directions, a minor safety point.) See: <http://boingboing.net/2016/08/15/its-pretty-easy-to-hack-traf.html> for more info.

Most states use illuminated road signs to warn motorists of changes ahead, but these signs are very simple to hack, also. <http://jalopnik.com/5141430/how-to-hack-an-electronic-road-sign> It appears that industry giant ADDCO signs are really among the easiest to hack. In fact, one friend of mine who works on a highway construction crew, readily admits that "The patients are running the asylum."

For your reading:

<https://goo.gl/FDYZXI>

<https://goo.gl/4e4mHV>

<https://goo.gl/fU4D1Y>

And notice the ad, their most popular course is "Ethical Hacking Boot Camp" <https://goo.gl/hmJwaa>

<https://goo.gl/sRz55X>

<https://goo.gl/IMB6Fe>

And an encrypted message for you. Here is a secret for additional security, easy to implement on any system.

For those who value their security, some have suggested using a Virtual Private Network. These do add some significant security, making your connection to a remote web page act as if you were only on a local network. Check "Virtual Private Network" on Wikipedia for some basic information. Most VPN's are a little effort to set up, and usually are not totally free. Well worth it, if you value your information, though. An alternative Web Browser (you can run it next to Internet Explorer, or Firefox, or Chrome) that has many years of stability is Opera. The most recent versions (Windows, Mac, and Linux) have a built in VPN, and it's free. It isn't the most robust VPN, but it is many times more secure than the other browsers. Search for "Opera Browser" and it's easy to find and install.

Hint for males: Best read while shaving.

We currently have **64 active paid-up** members!



FVEAA Membership Report

as of 2016-10-18 07:55:27

Count of Members by Type

Membership Type	Count	Paid Up
BusinessPremier	1	1
BusinessStd	2	2
Family	7	6
Individual	67	52
LifetimeInd	3	3
Totals	80	64

Other Statistics

Statistic	Value
% Paid Up	80.0%
Avg. Paid Up Days	158.4 days
% With Email	96.2%

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!

Membership Renewals

Ted Lowe

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 :)

Even a long time member and our Membership Manager (ME!) can forget to renew (i just discovered this today 10/18/2016 and thought *Oh My! How embarrassing!*):

First Name	Last Name	Business Name	
Ted	Lowe		
Paid Through	Membership Type	Status	Source
2016-10-13	Individual	Active	-Please Select-
Address	City	State	Zip Code
2003 Paddock Ct	Wheaton	IL	60187
Email	Website		
ted.lowe@fveaa.org			
Home Phone	Work Phone	Cell Phone	Fax
			Newsletter Dist.

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!

FYI, these members are **past due** at the time of this newsletter:

Thomas Koranda
Bob Holpuch
Bob Borgetti
Rick Karlin
David Canjura
David Korsgaard
Harry Ohde
John Polzin
Steve Larson
Jay Eminger
Mark Tomkiel
Taylor Gothard
Steve Bergman
Paul Fine
George Jackson
Michael Weiser
Chris Clark
Kevin Barker
Al Errico
John Congdon
Marco Arevalo
Juozas Miskimis

Meeting Minutes - Sept 16, 2016

Bruce Jones

Sept 16, 2016 Meeting Notes

7:00 Call to order

7:00 -7:30 Welcomes & Introductions

7:35 Old Business -- none

7:35 Review last meeting and last month EVents (Oregon IL IREA event)

7:45 New Business -- none Old business --none

7:45 Committee Reports

National Drive Electric Week

For Sat 9/17 Bob Baker talked about the Lake Barrington event for NDEW

For Sun 9/18 Bruce Jones talked about the Naperville NDEW.

George Zogaib is preparing window signs for the cars for the parade. Next year we'll try to get flags. We could use another small table. Everyone come on out!

ELECTION RESULTS

Nominations were finalized and closed by Bruce and elections held for the new Officers

Mike Willuweit was elected President

Rich Hirschberg was elected Vice President

Jeff Miller was elected Treasurer

Bruce Jones was elected Secretary

John Emde, Bob Baker, Marty Belovicz were elected as Board Members

WHAT A DRAG!

The Officers voted and agreed to invest \$200 for advertising on the Honda Insight electric dragster that John Emde is building, Bruce passed the hat around and club members donated another \$148 (so a total of \$348!). John thanked the club and very much appreciated last meeting an anonymous member had loaned him the \$400 towards the 2 racing slicks so now John can repay that generous member. John will be putting the club name and logo on the car in the next few months as he finishes that cool little screamin Electric dragster..

Bob Baker - Presented on the future of Electric Vehicles - highlights:

By 2020 1 in every 6 cars, 16% must be electric per World Energy Council to comply with regulations

The additional electric vehicles however won't strain the electric power production infrastructure

By 2020 electric cars will cost the same as their internal combustion counterparts

But battery costs must continue to fall (last year they fell 35%) and EVs must be less expensive causing demand and sales to rise

China will play a huge role in the future of EVs

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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It is great having near zero, or sometimes even negative, rates to fill up my car for nearly free or even better!

—Daniel H., Hourly Pricing participant since 2015

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