



December 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

December 9, 2016 6:00 p.m. to 9:30 p.m. 2nd FRIDAY IN DECEMBER!!

<<NOTE NEW TIME, DATE and LOCATION FOR **HOLIDAY MEETING / PARTY**>>

One Arlington Heights Luxury Apartments

3400 W. Stonegate Blvd

Arlington Heights, IL 60005

At the corner of Euclid and Rohlwing Rd.

MAP: [One Arlington Luxury Apartments](#)

Agenda

- **5:30** Doors open -> Sign-in Sheet, Tags
- **6:00** Call To Order, Welcome Introductions
- 6:30 Year in review, surveys, and treats
- 7:00 Eat, socialize, and have some fun

President's Words

Michael Willuweit

I begin by thanking Steve Cimino and Bill Becker for providing two insightful presentations to our November meeting. Steve's electric Vue is a great conversion done by some of our club's veterans and it has been going strong for seven plus years, I hope to see it again at club meetings or functions in the future. Bill Becker's presentation was a great history in solar powered vehicles and I'm really looking forward to the future as panels become more flexible, efficient, and affordable in the future. Last month's meeting also featured some parking lot EV test drives and an unboxing of a TESLA battery pack by William McDaniels. I hope to have him presenting his plans for the packs in the very near future.

This month's meeting will be a celebration of the FVEAA and I want to thank Marty Belovitz for securing the location. If you need L2 charging for this meeting please e-mail Marty (martin@totalsystemintegration.com) for arrangements for on-site garage parking. At the meeting we will review all the great things the club did in 2016 and solicit input from members about what they would like to see in 2017. We will have food (pizza/salad/etc.) and drinks at the party and asking for a \$5 donation if you would like to eat. I hope to see you on the 9th and if not, hope to see you at one of our meetings in 2017.



Steve Cimino presents his Saturn Vue small SUV conversion which took over 2 years.



Steve's Saturn Vue conversion has 70,000 electric miles over the last 7 years. SUV Range is 95 electric miles using 172V battery pack made up of 45 Thundersky 200Ah Cells. Steve appreciated the excellent work of John Emde, Rich Carroll, John Jeidi, Ted Lowe and Rich Grushas in converting this SUV to electric. Wow great work everyone!! Thanks Steve for sharing your experience with a pioneering electric vehicle.





Bill Becker presents on "Solar Electric Consumer Cars" a fascinating view of the ever increasing efficiency of Solar Panels and how cars are able to take advantage of this free energy. Great presentation Bill !



William McDaniels shows a 5.3 kWh battery from Tesla, much to the delight of Andy Schaeffer



Fred Kitch's Smart ForTwo electric, drawing electrons from the charging station in front of Community Christian Church.

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

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.

We currently have **68 active paid-up** members, up 3 from last month!



FVEAA Membership Report
as of 2016-12-05 04:58:06

Count of Members by Type

Membership Type	Count	Paid Up
BusinessPremier	1	
BusinessStd	2	2
Family	7	7
Individual	57	56
LifetimeInd	3	3
Totals	70	68

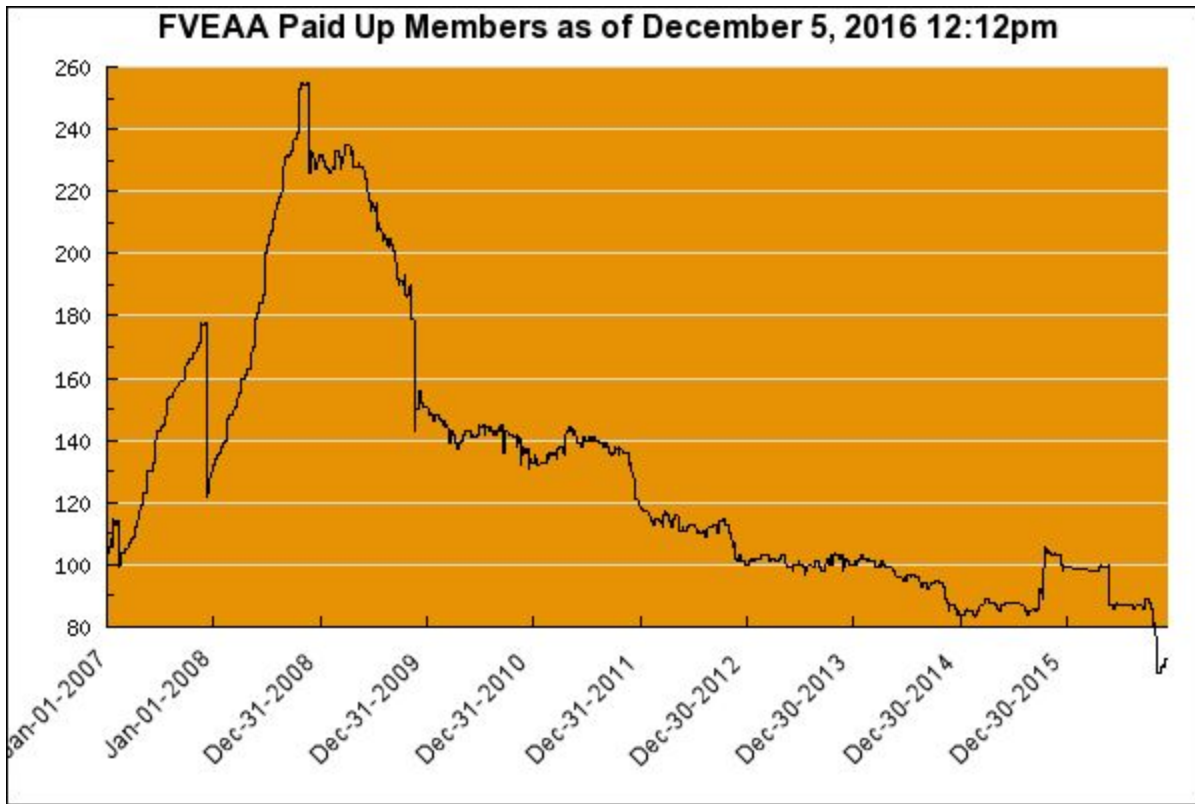
Other Statistics

Statistic	Value
% Paid Up	97.1%
Avg. Paid Up Days	220.9 days
% With Email	95.7%

Encouraging Our Membership To Grow in 2017 and Some History

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!

Here is a time-varying graph of our membership size from 2007 to now. Note that we peaked at about 255 members in the Summer of 2008 when gas was nearing \$5 per gallon. We were also attending lots more invitational EEvents with our EVs. **Let's get out there and grow the FVEAA in 2017!!!**



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 :)

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!

Meeting Minutes - Nov. 18, 2016 *Bruce Jones*

- Here are the minutes from our November meeting
- 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

DECEMBER MEETING - NEW DATE, TIME, LOCATION

Mike Willuweit announced the December Meeting – NEW TIME, DATE and LOCATION
 Marty Belovitz is coordinating our FVEAA December meeting / holiday party on the 2nd Friday of December (not the 3rd Friday!!)
 Date: December 9th
 Location: the “One Arlington” luxury apartments (Old Arlington Park Hilton. In Arlington Heights.
 3400 W. Stonegate Blvd

Arlington Heights, IL 60005

At the corner of Euclid and Rohlwing Rd.

There are 4 electric parking spots underneath and 3 outlets outside.

Arlington Heights and Arlington Park Train stations are about 2 miles away

Murphy's Law

Ted Lowe shared Murphy's Law as it applies to riding bicycles against the wind from Wheaton to the meeting and back. <Editor's note: So Ted, was it also uphill in both directions?>

3rd NDEW Site

Mike Willuweit mentioned the third Chicago area NDEW was in Evanston IL this year. George Gladic said there were several electric cars there including a Leaf, Volt and others, with drivers letting anyone drive.

Mike shared three announcements from Tesla

Tesla acquired Solar City and they have solar roofs that look like shingles

Free supercharging coming to an end by end of this year.

Limited to 400 hrs / year of free electricity

PRESENTATION BY STEVE CIMINO

Saturn Vue conversion from gas to Lithium back in 2008

The 2002 Saturn Vue is a smaller SUV hybrid from Saturn

In 2008 he ordered a kit from company on west coast to convert to electric. Stripped down the perfectly working car and converted to electric

Needed hub and adapter plate made and took to Pioneer Conversions in Lemont

John Emde, Rich Carroll, John Jeidi with Steve Grushas and others

Was going to put 20 x 6 volt lead acid batteries but then it was delayed 2 years

Lithium prices dropped from \$20k to \$10k so ended up putting them in 172 V Lithium battery pack

Range 95 miles

He can go from Elk grove village to Blackhawks game and back

Converted to a water cooled controller instead of air cooled controller

Drives in 2nd gear

Steve thanked John Emde, John Jeidi, Ted Lowe, Rich Carroll for the excellent work they did on Steve's Saturn.

He has \$30k in the car after all the parts, labor and rebates

He thought everyone would see the brilliance of doing this conversion but not everyone sees it that way.

Figures he saved 3500 gallons of gas and saved 40 tons of CO2

75 miles top speed

45 x Thundersky 200Ah cells

25 in back and 20 in front under passenger seat

Bought low rolling resistance tires and keeps them at 48lb inflation pressure

Added special rear shocks and struts to hold the battery weight

Magnetic water conversion?

PRESENTATION BY BILL BECKER on Solar Electric Consumer Cars

Elon Musk is a visionary having created Paypal, Tesla, Solar City and SpaceX

Triax solar panels have 25% efficiency and they think it may go to 35%

Germany will have no internal combustion engines by 2030

Do a Google search on solar electric boats will bring up 2000 electric boats

He built a 90 pound solar trike in early years

Described International race in Australia, 1800 miles total 315 miles per day

Showed several solar cars he had built

Solar cell efficiencies up to 48%

55 cents a watt today down from over \$100/watt years ago

Sunpower plows 30% profits into research

And they have solar flexible panels solar flex, 22x43 inches very durable 24% efficient today

Showed many potential solar powered cars, Solar leaf, Cmax hybrid, Prius etc.

Meeting Adjourned at 9:30 p.m.

After the meeting William McDaniels showed a Tesla 5.3Kw battery pack he bought for around \$1,100

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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CHARGE YOUR VEHICLE FOR LESS WITH HOURLY ELECTRICITY PRICING

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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