



## November 2017 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 **NOTE DIFFERENT LOCATION FOR THIS MEETING!!**

**November 17, 2017** Meet 6:30 p.m. Starts 7:00 p.m. Ends 9:00 p.m.

### Elmhurst Toyota

440 W Lake St.

Elmhurst, IL 60126

[Elmhurst Toyota](#)

[MAP](#)

#### Agenda

- 7:00 Call To Order, Welcome and Introductions
- 7:15 Presentation and information by Toyota and BMW staff

#### President's Words

Michael Willuweit

Many in this club have watched the meteoric rise of Tesla since its inception, and what a treat to have them host us in their Midwest flagship showroom last month. For those who went it was an educational and exhilarating night. I've received a few e-mails from Tesla and can't wait to get back to the showroom for some test drives.

This month the FVEAA roadshow will continue as we meet at Elmhurst Toyota and BMW to learn about the i3 and Toyota's hybrid line. Thanks to member George Zogaib for arranging this location.

Hope to see you in Elmhurst on Friday!

#### Photos of Last Meeting - Friday, October 20th, 2017

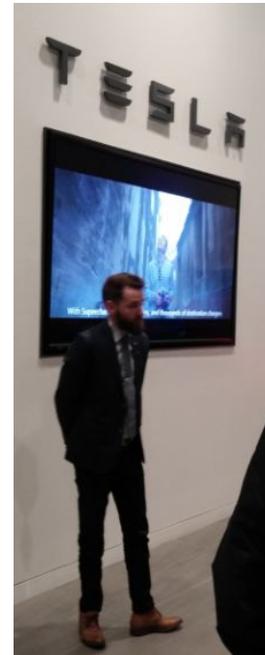
Bruce Jones



FVEAA at the Tesla Showroom for the Oct. 20, 2017 meeting



Tesla at 50 W Ogden in Westmont, IL



**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 69 members as of 8/15/17. 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

As many members are aware, we have had our home in Illinois for sale, with the intent to move to Henderson, NV. A combination of factors caused this, some related to close family, some related to weather. This was not an easy decision for Rose and I to make, both of us have been raised, gone to school, had our family, and all our work experience in the Chicago area. After marketing our home for 16 months, we have found a buyer, and plan to close in the next couple of weeks. We're packing boxes now, and have rented a home in Henderson, planning to build a home after we settle.

Henderson, NV is in the Las Vegas valley, and summer temps are hotter and more consistent than here. Between Memorial Day in late May and Labor Day in September in Henderson, the high temp failed to make 90° F on only two days. This year has seen a couple of two week stretches of every day having a high temperature of more than 100° F, with a record this year of 115° F. There are several articles about various battery chemistries yielding shorter ranges in extreme heat, and a few reports of control systems refusing to operate EV's when the batteries are extremely warm. Obviously, parking in the shade is important, but not always possible. After extensive looking, I am not aware of research that definitively quantifies the range loss at higher temps. Most manufacturers do not want to address the issue, since the largest variable is the temp of the batteries after the car has sat in bright sunlight on a very hot day. Henderson is known for the need for tinted windows and sun shades for cars, lest your CD's melt right in the car.

This may be one of last two parts of the Electric Vehicle movement, the other being extremely low temperatures. Low temperatures are likely even more deleterious to battery use, and I have personally seen temps more than 40 below in Ottawa, CA. By the way, for those of you who have never seen temps that low, you might ask if that is -40° F or -40° C. The answer is yes.

Not only do gasoline powered cars become difficult to start in ultra cold, but frequently their transmissions, differentials, shocks and other mechanical parts become virtually impossible to use. Some parts that don't function, simply snap off. In an EV, the chemical reactions in the battery slow to a crawl also, making high amperage draws impossible. Voltage sag (while the chemistry catches up with a rapid draw) is more pronounced, both in the voltage drop and the time of the sag.

With new chemistries being promoted for EV's, data about the older chemistries becomes anecdotal at best, and likely useless. Building or buying an EV in climate extremes is certainly cause for many questions before starting such a project.

While not directly relating to EV's, the FDA has approved, as of today, a remarkable new drug form. Technology has progressed to the point that this new dose form has been completely approved for human use. The only product so approved (so far) is a medication for schizophrenia and depression, and the Abilify MyCite (aripiprazole tablets with sensor) has an ingestible sensor embedded in the pill that records that the medication was taken. The tablets sensor sends a message to a wearable patch, and the patch communicates with a special app on a smartphone. Patients and caregivers and physicians can access information through a web-based portal. Missing a dose or multiple doses will alert the physician and caregiver. Micro miniature sensors inside tablets that can send information about whether and when doses were taken is one indication of the complete miniaturization and modest cost we are beginning to see in the electronics world.

We currently have **67 active paid-up** members, up two from last month! Please renew and recruit new folks!



**FVEAA Membership Report**

as of 2017-11-14 04:58:07

**Count of Members by Type**

Membership Type	Count	Paid Up
BusinessStd	1	1
Family	6	6
Individual	61	57
LifetimeInd	3	3
Totals	71	67

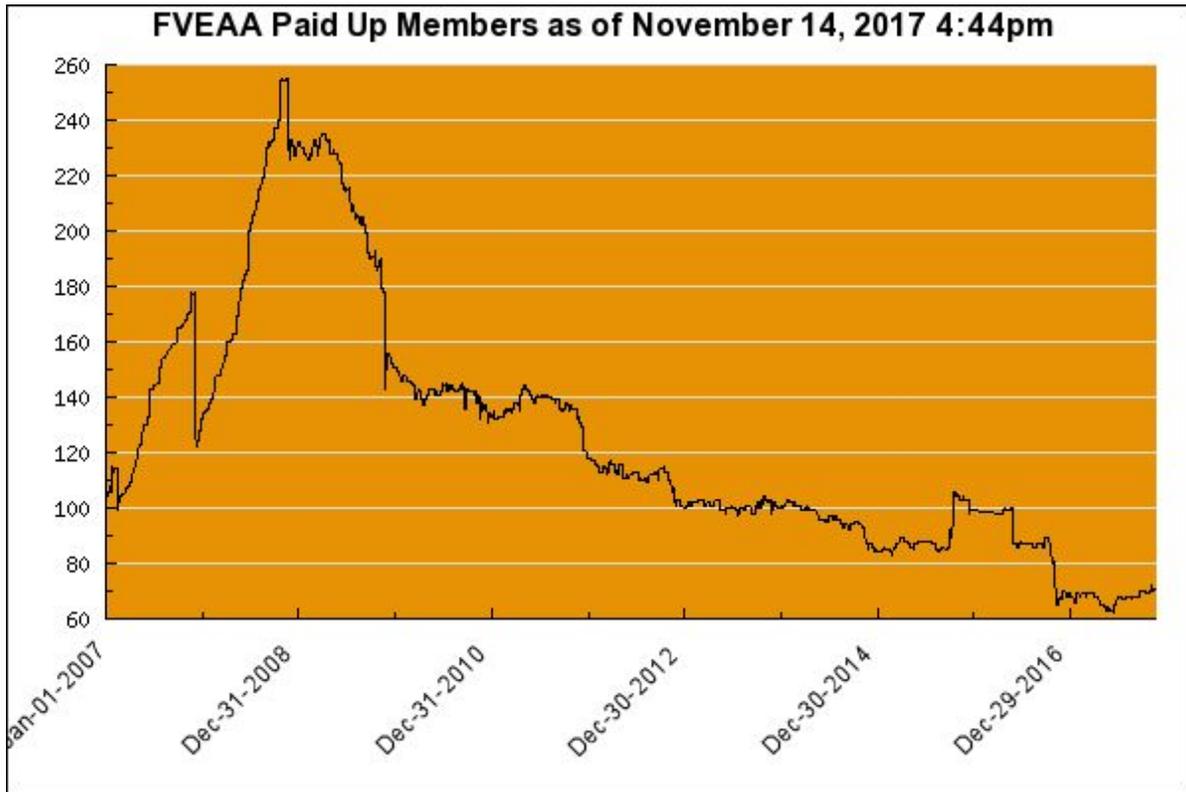
**Other Statistics**

Statistic	Value
% Paid Up	94.4%
Avg. Paid Up Days	186.8 days
% With Email	95.8%

**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 - Oct. 20 2017**

Bruce Jones

The October meeting opened around 7:15 p.m. at the Tesla Motors showroom, 50 W Ogden Ave in Westmont, IL

- Meeting started with a Tesla presentation by store manager Ryan Needles (630-541-1214) and then test drives (provided by the Tesla employees) and discussions with technical product specialist Douglas Christall
- Around 30 FVEAAers (and friends/ family) were in attendance
- Great evening riding some super cars and ending with a Tesla Model x SUV performing to the sound of Transiberian Orchestra’s Wizzards in Winter

**Meeting Adjourned at 9:40 p.m.**

**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



# Best Hybrid Batteries

Only The Best

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