



October 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!!**

Oct. 20, 2017 Meet 6:30 p.m. Starts 7:00 p.m. Ends 9:00 p.m.

Tesla Showroom

50 W. Ogden Ave.

Westmont, IL 60559

[Tesla Westmont](#) [Map](#)

Agenda

- 7:00 Call To Order, Welcome and Introductions
- 7:15 Presentation and information by Tesla
- 7:45-9:00 Model S and X test drives and socializing

President's Words

Michael Willuweit

You really never know what to expect when you show up at a FVEAA meeting. This past month's meeting was no exception with an incredible video presentation by Jeremy McLean. Jeremy outlined his vision for converting his DeLorean to an EV and then showed a timelapse video of some of the work he's undertaken. It was nice to be at the church again discussing a real conversion which I hope will inspire more people to convert vehicles in the future. Speaking of conversions, our own Ted Lowe brought his Dakota Quad cab to the meeting and I can't wait to hear him present at a future meeting about his installation of the Lithium battery pack and getting that conversion back on the road.

This month's newsletter features not one but two great articles by Rich Carroll so please check those out. Also check our Bruce's pictures of our NDEW events. A big thanks to Bruce and everyone involved in making this year's Events so successful.

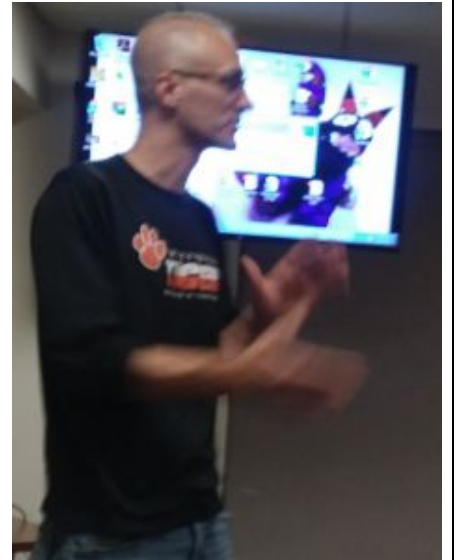
As for this month's meeting, I don't really know what to expect. Tesla is hosting us at their new showroom in Westmont so bring any Tesla questions you have and bring your driver's license if you want to get behind the wheel of one of their vehicles. Personally, I can't wait for Friday.

Photos of Last Meeting Fri Sept 15, 2017

Bruce Jones



Ted Lowe proudly presenting his Dodge Dakota pickup, that he just finished converting to Lithium Ion batteries, a journey that took three and a half years! Great Job TED!! Ted's comment: 3.5 years elapsed :) .. maybe 3 months of actual work :)



Re-elected President Mike Willuweit introduces Jeremy McLean



Jeff Green with his Mitsubishi iMiev next to Bruce's silver Leaf



Jeremy McLean presents his amazing and fun video of a robot beginning the conversion of his Delorean into an electric vehicle!

Spreading the EV Grin at EEvent in Illinois

NATIONAL DRIVE ELECTRIC WEEK SEPT. 17, 2017

We had 51 registered cars and 176 registered to attend the NDEW event on Sept. 17

See [NDEW Naperville Summary](#) for a summary of the event. Thanks much to Mike Padberg for helping put up banners and signs the week before, and then coordinate the test drives, get insurance waivers signed at the track.

Kudos to Marty and Colee Royce for the excellent tunes once again - a fabulous job on music. And thanks to everyone who helped take down afterwards and for Giordano's pizza!



NDEW Naperville Sept.17 at the Naperville car test track



Marty Belovicz runs a great sound system and provided great background tunes with assistance from Colee Royce



Paul Martinez w 2016 Brammo Electric Motorcycle



Ted Lowe's converted Dodge Dakota getting lots of attention



A brand new 2017 Chevy BOLT!!



Passenger with “EV Grin” after a ride in Mike Willuweit’s Electric Toyota Rav4

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

A very interesting development has started in Switzerland. It seems that Formula Car racing, in the formula of Formula E (electric powered racers) will return to Switzerland for the first time in 60+ years. Some of the background of why circuit racing has been banned in Switzerland for all these years is a worthwhile read.

In 1955, at LeMans, France, the largest disaster in motorsports history occurred. French Police records remain sealed but most reports show 84 deaths occurred when Peter Levegh lost control of his factory sponsored Mercedes-Benz, striking Lance Macklin in his Austin Healey 100S, and launching into the air, over a berm, and rolling end over end through the spectators. Levegh's speed was about 120 MPH before the accident and his end-over-end rolls continued for 260 feet. Much of the factory Mercedes-Benz body work was made from Elektron, a magnesium alloy. Elektron has a lower ignition temperature than other alloys, and subsequent fires of magnesium alloys cannot be easily extinguished by water or normal fire extinguishers. Flaming, burning metal parts were sent flying into the crowd in many directions. Early fire extinguishing was completely ineffective. Adding to the horrible disaster was the fact that the Mercedes-Benz was due to be filled with fuel, and was at its lightest weight possible. Car fragments simply sliced and tumbled over and over, ripping through the crowd. No racing accidents have ever come close in lives lost.

Switzerland banned circuit racing as unsafe, and several racing bodies established new sets of rules to prevent future tragedies. Several really impressive Swiss drivers have emerged since, including [Clay Regazzoni](#), [Jo Siffert](#), Simona de Silvestro, all have had to practice on circuits outside Switzerland. A Swiss Grand Prix was

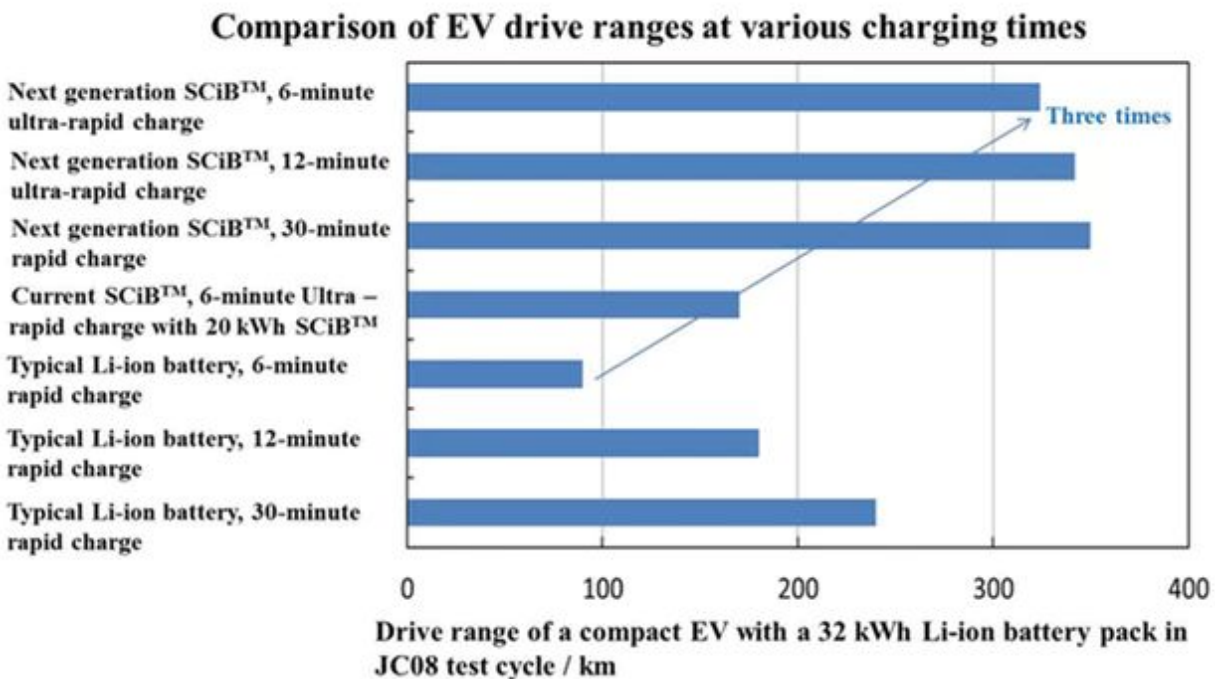
revived in 1975 and 1982, but was held just across the border in Dijon-Prenois, France. Of interest, other forms of motorsport had flourished, including hillclimbs, rallies and trials. Recently, the Swiss Parliament has voted to overrule the motor sports circuit ban, although I do not believe this has passed the Swiss Council of States (called the Senat). There has been a lifting of this restriction for electric powered vehicles, and the Formula E race is scheduled for June 10, 2018 in the streets of Zurich.

Those who have known me for several years, know one of my closest friends was Swiss, born and raised in the Jura mountains in western Switzerland. Yves Bornand was one of the kindest, most knowledgeable car enthusiasts I have ever known, a wealth of information and connections. Yves was a watchmaker and businessman, a corporate executive in the Piaget company (later Richemont). Yves followed technology closely, and would have certainly attended the first Formula E race in Switzerland. Rose and I have stayed friends with his sister since Yves passed several years ago. Perhaps Rose and I, and perhaps Nicole, should all go to Zurich in June in his memory. I'd certainly have to revisit my French language skills.

New Toshiba Battery Development Rich Carroll

Toshiba has been promoting their Super Charge Ion Battery technology for about 10 years under the SCiB acronym, but seems to have made a significant advance and have announced some astounding real world numbers.

The anode in the current SCiB is a lithium titanium oxide, but Toshiba has changed for its next generation SCiB to a titanium niobium anode, essentially a rearranged crystal structure to store lithium ions more efficiently. The company claims that this can double the energy density of the battery pack. Here are the real world numbers Toshiba quotes to back up that claim. They tested a 50-Ah version of the pack, good for a compact EV. They assure readers that it will retain 90% capacity after 5,000 cycles. It should allow a range of about 185 miles on six minutes of ultra fast charging, around three times the range of a standard, similarly charged lithium battery.



Based on Toshiba's years of experience providing batteries to production i MiEV vehicles (production and racing) from Mitsubishi, and in Honda's Fit EV, we tend to think that these are a fair representation of what the new SCiB can do.

We currently have **65 active paid-up** members, down two from last month! Please renew and recruit new folks!



FVEAA Membership Report

as of 2017-10-16 04:58:06

Count of Members by Type

Membership Type	Count	Paid Up
BusinessStd	1	1
Family	7	5
Individual	58	56
LifetimeInd	3	3
Totals	69	65

Other Statistics

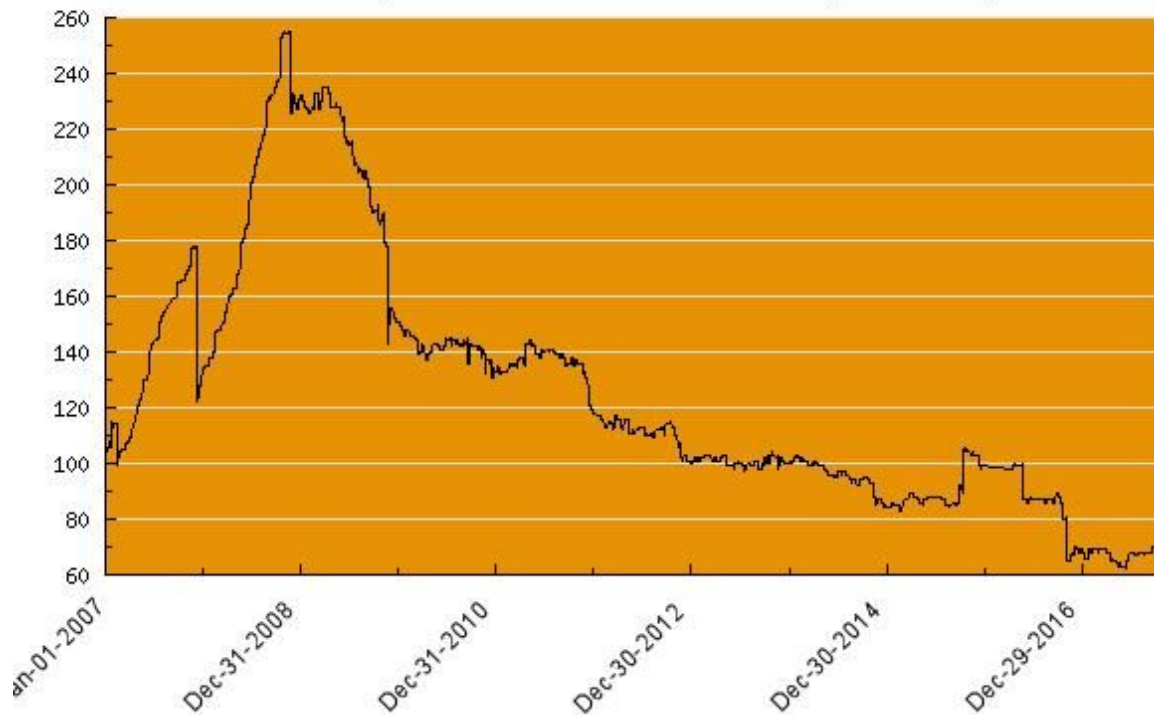
Statistic	Value
% Paid Up	94.2%
Avg. Paid Up Days	166.1 days
% With Email	94.2%

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 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!

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 EVents with our EVs. **Let's get out there and grow the FVEAA in 2017!!!**

FVEAA Paid Up Members as of October 16, 2017 4:25pm



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 - Sept,15 2017

Bruce Jones

The September meeting opened informally outside Community Christian Church before 7:00 as we took the opportunity in the daylight to have Ted Lowe present his 2000 Dodge Dakota pickup truck that he finished converting from lead acid to Lithium Ion batteries. Way to go Ted! (He started this conversion with the group in 2014 and his first work session was on May 3, 2014!)

Rich Hirschberg discussed the upcoming National Drive Electric Week #2

- Sun 9/17 EEvent 2 - Naperville Test Track Setup 12:00 noon, open 1-4, take down /pizza after
- **1720 West Jefferson Avenue, Naperville, IL**
- [NDEW Naperville Map](#)
- The EAA national newsletter featured a three page article on our recent FVEAA activities that Bruce submitted to them last month. See <http://www.electrcauto.org/>
- Annual Elections were held and congratulations to the officers.
 - The nominations were finalized and the following members were elected for the positions

shown.

- President Mike Willuweit
 - VP Rich Hirschberg
 - Treasurer Jeffrey Miller
 - Secretary Bruce Jones
 - Board Members: John Emde, Marty Belovicz, Bob Baker
-
- Jeremy McLean presented his fascinating home-made video showing a robot that he created, taking apart his DeLorean and starting the conversion to electric.
 - This video took hundreds (thousands?) of hours to produce using the old stop action animation and was a delightful video

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



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