



September 2019 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

NO SEPTEMBER 2019 MEETING
PLEASE ATTEND ONE OR TWO OF OUR NATIONAL DRIVE
ELECTRIC WEEK EVENTS
SATURDAY SEPT 14th OR SUNDAY SEPT 22, 2019

- **National Drive Electric Week (NDEW) Sept 14 - 22, 2019**
<https://driveelectricweek.org/events.php?year=2019> Overall information
 - **Event #1**
 - **Saturday Sept. 14th, 12:00 - 4:00 p.m.**
 - **GS Floor Design, 855 West University Drive, Arlington Heights, IL**
 - **Contact Marty Belovicz 847-321-5734**
 - <https://driveelectricweek.org/event.php?eventid=1985>
 - **Event #2**
 - **Sunday Sept. 22nd, 1:00 - 4:00 p.m.**
 - **Naperville Test Track, 1720 W Jefferson Ave. Naperville, IL**
 - **Contact Mike Padberg 574-807-2990**
 - <https://driveelectricweek.org/event.php?eventid=1851>
- **Aurora Green Fest**
 - **Saturday Sept. 28, 10 a.m. - 4 p.m.**
 - **PRISCO COMMUNITY CENTER, 150 West Illinois Avenue, Aurora, IL 60505**
 - <https://www.auroragreenfest.com/>

Agenda

- No agenda this month, please come experience an Event with us

Last month we got to hear about some of the more unusual charging situations people have found themselves in. John M told us a memorable tale about watching a parade. Unfortunately for him the parade was passing by as he was trying to leave the campground he was charging at! EV road trips, before substantial DC fast charging networks existed, were much different than they are today. Thanks to all of the pioneers that made our EV future possible.

My presentation:

I brought a pile of cables. It isn't as bad as it looks though as one set is for the Bolt and the other set is for the Model S. The Bolt has three cables, 120 volt to J1772, Nema14-50 to J1772, and a J1772 25 foot extension cord. The 120 volt cable lives under the floor as there is a cut out in the foam for it. The J1772 extension cord hangs on the back of the seat to stay out of the way. The 14-50 to J1772 lives in a big blue bag in the garage as it is bulky and eats up grocery space under normal day to day usage.

The Tesla to J1772 80A 30 foot cable gives some pretty big flexibility so long as you have a couple of J1772 to Tesla adapters handy. It isn't cheap but it could easily be one of two cables you carry that covers not only a Tesla but all J1772 cars in quite a few situations. I carry it and at least one of the Tesla Portable chargers all the time. They fit nicely inside of the spare tire in my Frunk.

Another small project:

I completed the first phase of a small electrical upgrade to my server rack. The people who were in my basement about a year ago may recall I have a full height server rack full of various pieces of computer gear. Everything in that rack is now running on 240 volts instead of 120. Computer power supplies are more efficient on 240 volts than 120, and as such I will save a couple percent on what is a substantial portion of my annual electricity consumption. There is more to this project, but that is a story for another day.

Fast loaner:

I have my white Model S in the shop getting an "Acceleration reduced" error message resolved along with the other issues (door handles) addressed and got very lucky on a loaner. I am presently driving a P90D with Ludicrous. It is quick. It is also worth noting that Tesla has opened two new service centers in the Chicago land area, and for me, the new Schaumburg location is much more convenient than the original two locations.

If all goes according to plan, I should get my car back tomorrow, which I am happy about, but a part of me will miss the P90D, and it's Bioweapon defense mode. Especially with my allergies acting up right now.

Articles I found interesting

This thread is over 230 pages now. I haven't caught up yet, pesky work getting in the way of my fun, I am still in the low 100's.

<https://teslamotorsclub.com/tmc/threads/sudden-loss-of-range-with-2019-16-x-software.154976/page-75>

Model 3 police car, in southern INDIANA!

<https://www.teslarati.com/tesla-model-3-joins-police-force-indiana/>

<https://electrek.co/2019/09/07/tesla-battery-cell-last-1-million-miles-robot-taxis/amp/>

Grain of salt still likely required for new battery technology

Porsche Taycan news

I am shocked that the Porsche Taycan has so much less range than the Tesla products. The industry estimate for it's yet to be announced EPA range is 220, which is less than either of my cars. The VW group has found

niche use cases where they are might exceed Tesla in some way, but most of them aren't very real world. I am glad they are jumping into the game, and I hope they sell 40,000 or more a year.

<https://jalopnik.com/an-extremely-detailed-look-at-the-porsche-taycans-engin-1837802533>

<https://arstechnica.com/cars/2019/09/everything-you-wanted-to-know-about-porsches-new-electric-car/>

<https://arstechnica.com/cars/2019/09/tesla-to-take-on-taycans-track-time-at-the-nurburgring/>

<https://electrek.co/2019/09/04/porsche-taycan-electric-car-specs-unveil/>

<https://electrek.co/2019/09/05/porsche-taycan-demonstrates-difficulty-launching-performance-ev-on-tesla-turf/amp/>

<https://www.autoblog.com/amp/2019/09/04/porsche-taycan-tesla-model-s-comparison/>

What do I think is happening to their efficiency? I haven't seen anything in the press yet beyond the VW spin but both the Audi Etron and Porsche Taycan reuse existing suspension probably with the wheel hubs, and bearings of other gas/hybrid products. From what I recall Tesla set's all their wheel angles at zero toe to minimize scrubbing losses. Traditional cars are rarely set at zero toe, even in the rear, meaning they are always scrubbing tires to some degree. As we know these are small bits of drag, but Tesla has chased all of those small bits out of their cars where VW hasn't gone that far yet. Tesla also goes over their wheel bearings, the grease they use, and every detail to get losses down. With VW reusing some driveline and suspension parts from other cars they limit how much efficiency motivated design work they can do. Wheel bearing grease has a surprising impact, especially as temperatures start to fall. In the end, these "clean sheet" designs aren't really as clean as we thought and the result is what you expect, a car that has compromises compared to the state of the art long range Nissan, Chevy, and Tesla vehicles.

<https://www.theverge.com/platform/amp/2019/9/9/20857217/volkswagen-vw-id3-electric-price-specs-mile-range-frankfurt-motor-show-2019>

<https://teslamotorsclub.com/tmc/threads/nearly-brand-new-90-kwh-ludicrous-battery-pack-v3-limited-time.164581/>

The guy offering this service is one of the experts in the Tesla community. This one is gone, but it gives you an idea of what the future looks like for Tesla owners.

<https://teslamotorsclub.com/tmc/threads/s100d-reduced-supercharging-speed-with-2019-12-1.156726/>

<https://arstechnica.com/tech-policy/2019/08/trump-admin-announces-plan-to-kill-2016-methane-emissions-limits/>

Kill the planet faster?

<https://jalopnik.com/porsches-twitch-reveal-of-its-formula-e-car-was-a-hot-m-1837705676>

<https://jalopnik.com/slower-charging-might-be-the-future-of-evs-report-1837610181>

This does seem obvious to those of us who have been living with or considering EVs for a long time. Charging at home is far cheaper for everyone than fast charging.

<https://www.vox.com/platform/amp/future-perfect/2019/8/23/20828842/bernie-sanders-electric-school-buses>

<https://jalopnik.com/school-buses-are-perfectly-suited-to-be-electrified-che-1837617475>

I really hope they do this, maybe not with recycled parts but regardless electrifying school busses would be the ultimate, even ahead of electrifying garbage trucks.

<https://jalopnik.com/the-2020-chevrolet-bolt-gets-a-range-boost-to-beat-the-1837577573>

<https://electrek.co/2019/08/22/hyundai-electric-car-concept/>

<https://jalopnik.com/the-2020-mercedes-benz-eqv-beats-tesla-and-volkswagen-t-1837403191>

<https://jalopnik.com/this-hyundai-aims-to-be-the-worlds-most-capable-electri-1837406793>

<https://jalopnik.com/the-audi-e-tron-beats-out-chevy-bolt-tesla-model-s-in-1837270664>

<https://jalopnik.com/jamming-a-tesla-drivetrain-into-your-favorite-sports-ca-1837284177>

<https://jalopnik.com/chevrolet-is-betting-its-ev-future-on-this-electric-com-1837255740>

<https://jalopnik.com/a-texas-startup-claims-to-have-made-the-biggest-advance-1837173127>

Just like battery advances a grain of salt is required

<https://jalopnik.com/lotus-evija-ev-hypercar-promises-almost-2000-horsepower-1836307444>

<https://jalopnik.com/the-porsche-taycan-might-be-the-fastest-four-door-ev-on-1837575260>

<https://www.reuters.com/article/us-bmw-tata-electric/bmw-and-jaguar-land-rover-to-jointly-develop-electric-car-components-idUSKCN1T60NM>

Thanks George Z for contributing the story.

<https://arstechnica.com/cars/2019/09/volkswagens-electric-racer-conquers-chinas-tianmen-mountain-road/>

<https://arstechnica.com/science/2019/09/crops-under-solar-panels-can-be-a-win-win/>

<https://teslamotorsclub.com/tmc/threads/laguna-seca-track-day.165029/>

Video's of a Model 3 on a track

<https://electrek.co/2019/07/22/tesla-removes-free-unlimited-supercharging-used-cars/>

This is definitely happening, all used Tesla's at tesla.com are no longer showing free supercharging even if they had it originally.

<https://teslamotorsclub.com/tmc/threads/diy-retracting-charging-cable-took-me-3-days-to-figure-it-all-out.165462/>

<https://teslamotorsclub.com/tmc/threads/ha-long-range-rwd-from-ventura-to-big-bear-on-one-charge.165491/>

I do not hold any interest in any car manufacturer or any of their subsidiaries

FVEAA Website Development Update

Ted Lowe

STILL nothing new report this month due to extreme over-busy-ness with outdoor projects. This is why i try to get computer work done in the Winter months! Fall is coming... then Winter... so will get back to the project soon!

Photos of August 16th meeting

Bruce Jones



Tesla wall charger to J1772 adapter with J1772 to Tesla adapter in the Tesla end making it a 30 foot 80 amp J1772 extension cord in that configuration.



Jeff shows the CHAdeMO connector (why so serious?)



From left: Tesla wall connector 40A to Tesla (travel charger), 80A Tesla in to J1772 out 30 foot

extension, J1772 from Nema 14-50 for Bolt.
Lower right: another 40A Tesla wall connector



CHAdEMO to Tesla connector



Jeff describes, and shows an amazing collection of various useful charging cords, and Tesla cords and connectors. J1772 extension cable hanging on the seat back of the Bolt.

FVEAA On Facebook - Join Us! Like 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 86 members as of 3/11/19. 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 supplements 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/>

Grant Gerke started **FVEAA's Facebook Page**. Like Us!

<https://www.facebook.com/FoxValleyElectricAutoAssociation>

Membership Update

Ted Lowe

We currently have **49 active paid-up** members, down 1 from last month!
Please renew & recruit new folks in 2019!!!



FVEAA Membership Report

as of 2019-09-09 04:58:05

Count of Members by Type

Membership Type	Count	Paid Up
BusinessStd	1	1
Family	5	5
Individual	41	40
LifetimeInd	2	2
Totals	49	48

Other Statistics

Statistic	Value
% Paid Up	98.0%
Avg. Paid Up Days	152.7 days
% With Email	93.9%

Encouraging Our Membership To Grow in 2019 and Some History

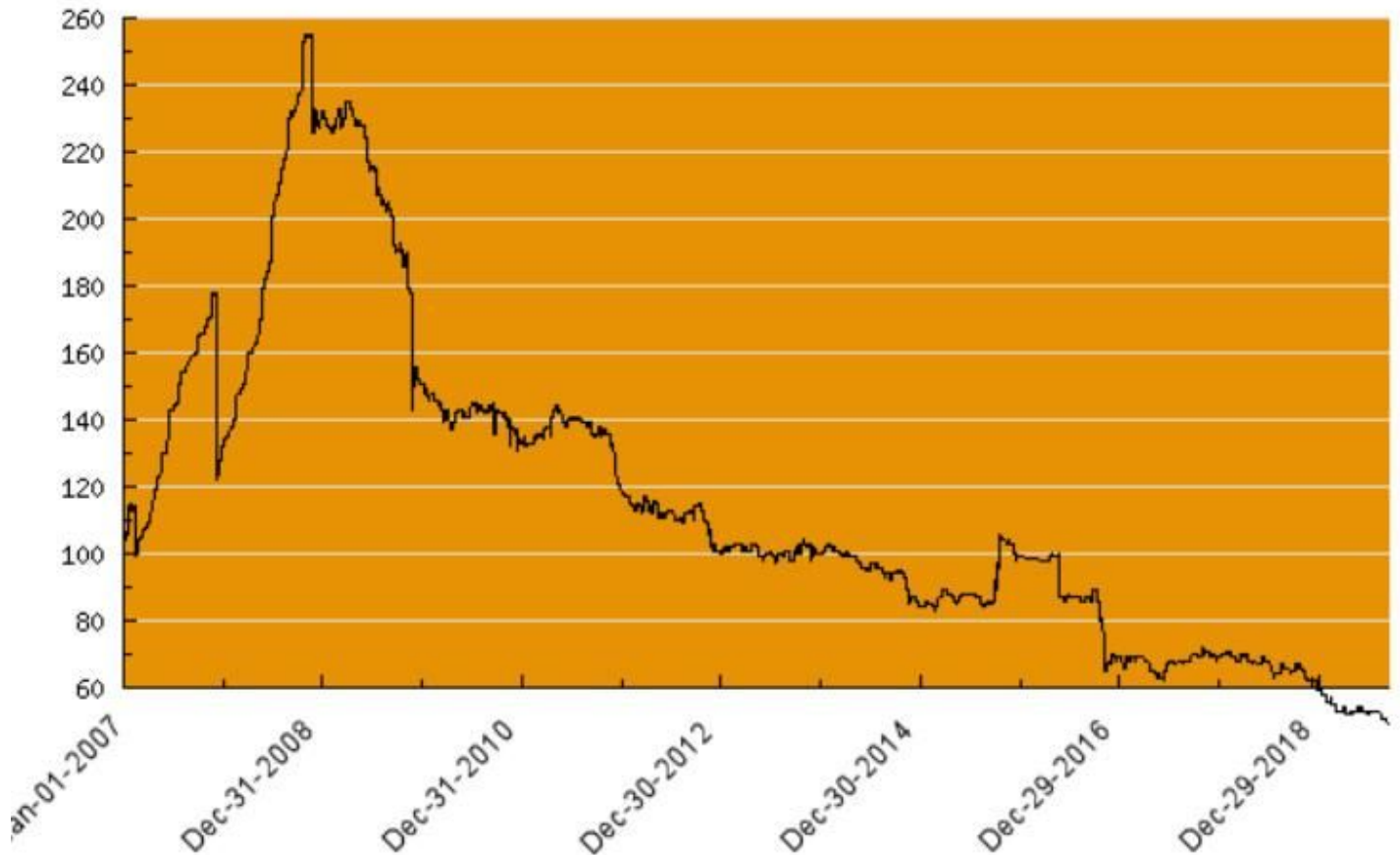
Ted Lowe

Happy 2019 EVeryone! 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 2019!!!**

NOTE: This graph will be repaired on our new website soon!

FVEAA Paid Up Members as of September 9, 2019 2:35pm



Monthly Treasurer Reports

Ted Lowe

As Treasurer, I am publishing a brief Treasurer's Report to our forums around the time our monthly newsletter is published.

i am publishing our various cash balances (Money Market, Checking, PayPal) to this location:

[FVEAA Committees](#) > [Finance](#) > [Treasurer Reports](#)

This area of the forums can only be seen by FVEAA members. As an IL Non-Profit corporation, we have no requirement to publish our assets or financial statements publicly.

Feel free to contact me if you have any FVEAA financial matters to discuss.

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!

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 - <https://www.auroragreenfest.com/>
- **McHenry County College Green Living Expo**
 - Saturday, November 2, 2019 from 10 a.m. to 3 p.m
 - 8900 U.S. Highway 14 Crystal Lake, IL (Gym)
 - <https://www.mchenry.edu/greenexpo/>

Welcome

- Jeff Miller opened the meeting at 7:05.
- We held introductions and attendees described the “strangest place or situation that you charged an electric vehicle”
- Charging Cord Presentation
 - Jeff presented an amazing assortment of various charging cords, connectors and ways to connect, lengthen cords, connecting to various charging stations in nearly any kind of situation.
 - He also provided a Miller family Bolt usage update
- Upcoming Events - Rich Hirschberg provided details on upcoming events
 - Aug 24th Expo by Office Max Crystal Lake
 - Sept. 14 and Sept 22 our Two National Drive Electric week events in September
 - Nov. 2 Mchenry County College Green Living Expo
- A motion was made, seconded and approved for the club to pay \$40 to register for the Mchenry County college Green Living Expo Saturday, November 2, 2019 from 10 a.m. to 3 p.m.
- Meeting adjourned at 9:20 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

Michael Bradley

18600 IL-59

Shorewood, IL 60404

Phone: 708-669-9402

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Web: www.besthybridbatteries.com