



March 2022 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

This month's meeting is on Friday **March 18, 2022
7:00 p.m. **on Zoom only****

We are using the Zoom video-conferencing platform to hold this VIRTUAL meeting. Zoom runs on all computers and phones. Some setup is required prior to your first use of Zoom on your device of choice. Connect to the meeting a bit early (6:45pm earliest) by using the link below to test your connection. Please call Ted Lowe (630-260-0424) if you want help getting Zoom installed on your device of choice. You can also dial-in on your telephone to have an audio-only connection (see phone number and meeting ID below). The audio on your device will be automatically muted upon entering the call to avoid disrupting the call.

Pre-meeting setup check starts at 6:45pm.

Meeting starts at 7pm and will run until 9pm.

Use this information to connect if you want to join remotely:

Topic: FVEAA March 2022 Monthly Meeting

Time: Fri March 18, 2022 6:45 PM CST (pre-meeting setup check), Meeting 7:00 PM

Join Zoom Meeting:

<https://us02web.zoom.us/j/95901481473?pwd=U npJVUJOUmVPOFZqR013ZFpPbzM0UT09>

Dial-in for audio-only users: Call: 312-626-6799

Enter Meeting ID when prompted: 95901481473#

Participant ID: (blank, just #) *6 mutes/unmutes your line, *9 raises your virtual hand

Contact us if you need the password for audio only calls.

Topic: FVEAA March 2022 Meeting

Time: Fri March 18, 2022 7:00 PM CST

Agenda

- 6:45 Virtual Meeting Starts (to test connections)
- 7:00 Introductions
- 7:30 Simon Gibson discussing CEJA-inspired pamphlet

- 8:00 Break
- 8:05 Jeff Miller will show pictures and talk about the 2003 Chicago Auto Show
- 9:00 Close

NOTE: APRIL MEETING AT CCC on Friday 22nd (The 4th FRIDAY!) - Stay tuned!!!

In Memoriam - John Jeide, another great FVEAA friend and electric vehicle pioneer

John Jeide, long time FVEAA member, passed away on 2/12/2022 at the age of 85. He was another long-time electric auto member and worked with several in the group on electrifying cars over the years. He was an expert on Battery Management Systems, and installed the Mini BMS on Bruce's Hupmobile. We sure miss you John, and your colorful three wheeled EVs, as you were one of the early pioneers of electric vehicles

<https://www.echovita.com/us/obituaries/il/aurora/john-f-jeide-14232241>





8/30/2011 John with the Green Pickle!



John Jeide with two of his eye-catching all-electric three-wheeled Myers Motors NmG (formerly the Corbin Sparrow). 9/13/2015 with the Orange Pumpkin and Maxwell (above)



9/20/2013 John with Miodrag Zubic talking about battery management and control systems



12/11/2015 on the Argonne National Labs tour



5/6/2016 John Emde (L), Kevin Zak (C) and John Jeide ® after working on Bruce's 1930 Hupmobile. John did a great job working on the car, and built a beautiful wooden bookshelf behind the back seat to hold the batteries.



John Jeide installed the Mini BMS battery management system and batteries on the Hupmobile in 2016. Thanks John, I really appreciate the great job, and your kindness as you picked me up and dropped me off at home during maintenance sessions! We miss you, Bruce Jones



7/18/2014 John describes BMS system components at our meeting.

BMS SYSTEMS

- John Jeide 7/18/2014
- Not to be confused with Jedi



- But both are Masters!
- Alderaan System vs. BMS System

Having a little fun with John Jeide's last name

I didn't know John as well as many of the others but I have nothing but good memories of him. A few weeks before he passed he was helping Steve Ledger with his green Jeep BMS troubleshooting. It's safe to say he was helping the EV community to the very end!

February Meeting

Thanks to Ryan Walsh from Valqari Electric drone delivery. <https://www.valqari.com/> He discussed his company and their drone landing points. His landing points are automated boxes to accept deliveries from drones and also provide packages to drones that need to go back to the seller. It can be as small as a large mailbox or as large as those Amazon pickup locations. His equipment offers a friendly landing station for drones and is drone manufacturer agnostic.

Thanks to Tim Moore for coming on to speak about his experience on a recent road trip. He had some challenges and I appreciate him speaking about them to the group. We then got distracted talking about winter tires. There is some more winter tire information a couple of paragraphs down.

March Meeting

Simon is going to present the informational brochure he would like to provide to consumers and electricians in the state of Illinois. He would like feedback so bring your virtual pitchforks! After that I will be showing pictures and giving my impressions of the various EV's at the Chicago Auto Show. No I didn't get to sit in the new Silverado, and neither did anyone else!

Winter tires and efficiency impact

As a carry over from the discussion around winter tires

<https://www.metrompg.com/posts/winter-mpg.htm>

The sources he notes for tire rolling resistance have gone dead, however he does mention the spec From the article:

“Even if you're completely attentive to proper tire pressure, cold ambient temperatures will still cause your tires to return worse mileage. That's because a tire's shape isn't completely round - the sidewall bulges out at the bottom, and where the tread meets the road the small contact patch is actually flat. As the tire rotates, it constantly deforms to this shape, and this deformation requires more energy when the rubber is cold and hard. **Rolling resistance at 0 degrees F is 20% greater than at 80 degrees**”

As we were discussing, that is a significant impact that using winter tires helps to reduce.

Here is an archived copy of one of the references

http://web.archive.org/web/20090711084758/http://www.crrel.usace.army.mil/techpub/CRREL_Reports/reports/TR04-6.pdf

From Page 10:

“Stiffening of the rubber also increases the rolling resistance of tires driven at ambient low temperatures (Shoop et al. 1997).”

The other reference is a discussion that seems to be lost forever.

Tire racks explanation for tire efficiency. They are focusing on ICE cars in this article but they still break down what is using energy in the tire.

<https://www.tirerack.com/tires/tiretech/techpage.jsp?techid=175>

My home improvement projects

The Solar array managed to produce just over 60KWH yesterday! There is very little hope that my family will use less than the array produces each year, but during this time of year we will build up a few credits that we can use during the first month of the cooling season. I do have a very small amount of shading early in the morning that seems to cost me about 260 watt hours this time of year. Since the panels are facing South West, shading in the morning isn't significant, however I can measure it. It's a large Blue Spruce so it won't be overhanging my house just shading the house early in the morning during the spring and fall. As a reminder my house is set up with 25 400 watt panels and 25 Enphase micro-inverters that are 295VA. I did the math on what it would cost to upgrade to a larger inverter, and then the payback in years for that upgrade. It worked out that I would make the money back at about the 25 year mark, so definitely not a worthwhile upgrade.

Articles I found interesting:

The F150 is being tested to back feed to the grid in California.

<https://www.sunrun.com/ev-charging/ford-f150-lightning>

<https://arstechnica.com/cars/2022/03/californias-utility-will-begin-testing-ev-vehicle-to-grid-charging/>

<https://www.cnbc.com/2022/03/11/ford-and-pge-partner-on-electric-f-150-powering-homes-grid.html>

<https://arstechnica.com/cars/2022/03/ars-takes-a-closer-look-at-volkswagens-id-buzz-electric-van/>

<https://www.teslarati.com/today-show-segment-gas-mileage-tips-inside-ev-video>

<https://www.pewresearch.org/science/2022/03/01/americans-largely-favor-u-s-taking-steps-to-become-carb-on-neutral-by-2050/>

<https://www.pcmag.com/news/michigan-plans-first-in-the-us-wireless-electric-vehicle-charging-road?amp=tr>

<https://gm-techlink.com/?p=8089>

We used this article to work on Rob's Volt again. I used my laptop and the Tactrix cable I used for programming my Saab 92x aero.

Upcoming Events - Spring 2022

Rich Hirschberg

Sat., **April 16**, Atlanta, IL Drive Electric Earth Day (DEED)

- 10 am to 2 pm
- On Route 66 just off I-55 approx. 30 miles south of Bloomington-Normal, IL and 45 min. north of Springfield, IL
- Contact Whitney Ortiz, Tourism Director for Atlanta, IL - 217.871.7557 to reserve a spot.
- Their 2nd EV Cruise-In event held in the Route 66 town of Atlanta, Illinois. Join fellow EV enthusiasts for an Event like no other - EVs on Route 66! Head into the Route 66 town of Atlanta, Illinois for the day and enjoy being on the famous 'Mother' road laid in 1926.
- The cruise-in will take place on Arch Street between Race and Vine Street on April 16th. For the early arrivals, we will have Cars & Coffee followed by the traditional cruise-in.
- Fellow EV enthusiasts in the area are welcome to attend with or without their cars.

Fri., **April 22**, FVEAA Meeting, Community Christian Church

- 7 to 9 pm
- 1635 Emerson Lane, Naperville, IL 60540
- Corner of Ogden Ave. and Rickert Dr.
- All are welcome – members, non-members, guests

Sat., April 23, Geneva, IL Earth Day

- 11 am to 3 pm
- NRC and Geneva Park District Earth Day Event
- Location: **Peck Farm Park**
- 4038 Kaneville Rd, Geneva, IL 60134
- Bring your EV and talk to the public about it. We have an opportunity to really make progress as many people are being forced to be open minded by the high gas prices.
- Additional activities - ribbon cutting – tree planting – Earth Day Celebration – Family Bike Tour.
- Register at genevaparks.org or call 630-232-4542

Sun., April 24, Naperville, IL Earth Day

- 1 to 4 pm
- Ft. Hunt Activity Center
- 20 Fort Hill Drive, Naperville, IL 60540
- MAP
<https://www.google.com/maps/dir//20+Fort+Hill+Dr.+Naperville.+IL+60540/@41.7740374,-88.1973192,17z/data=!4m9!4m8!1m0!1m5!1m1!1s0x880ef8450185ec83:0xb1ce2e2a9d9d214f!2m2!1d-88.1951305!2d41.7740374!3e0>

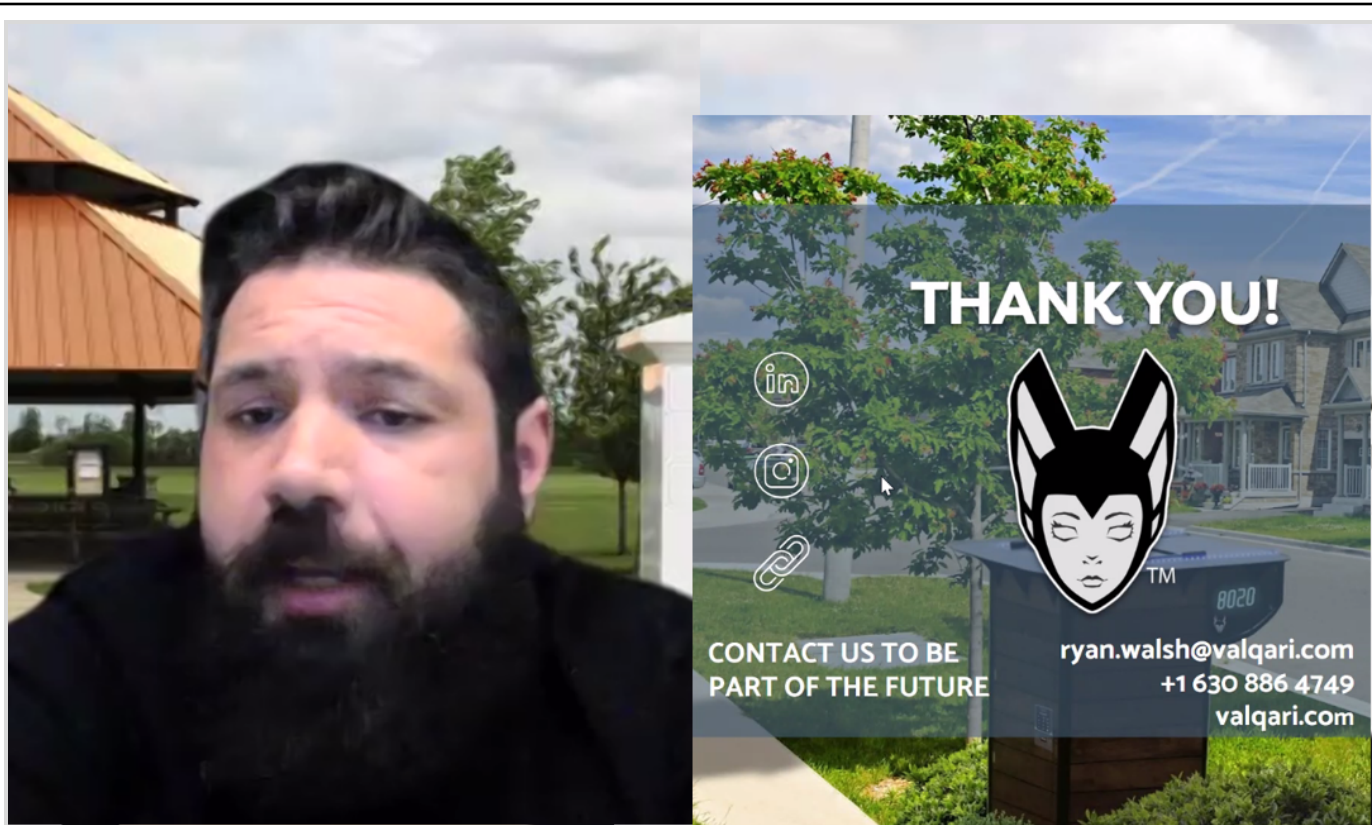
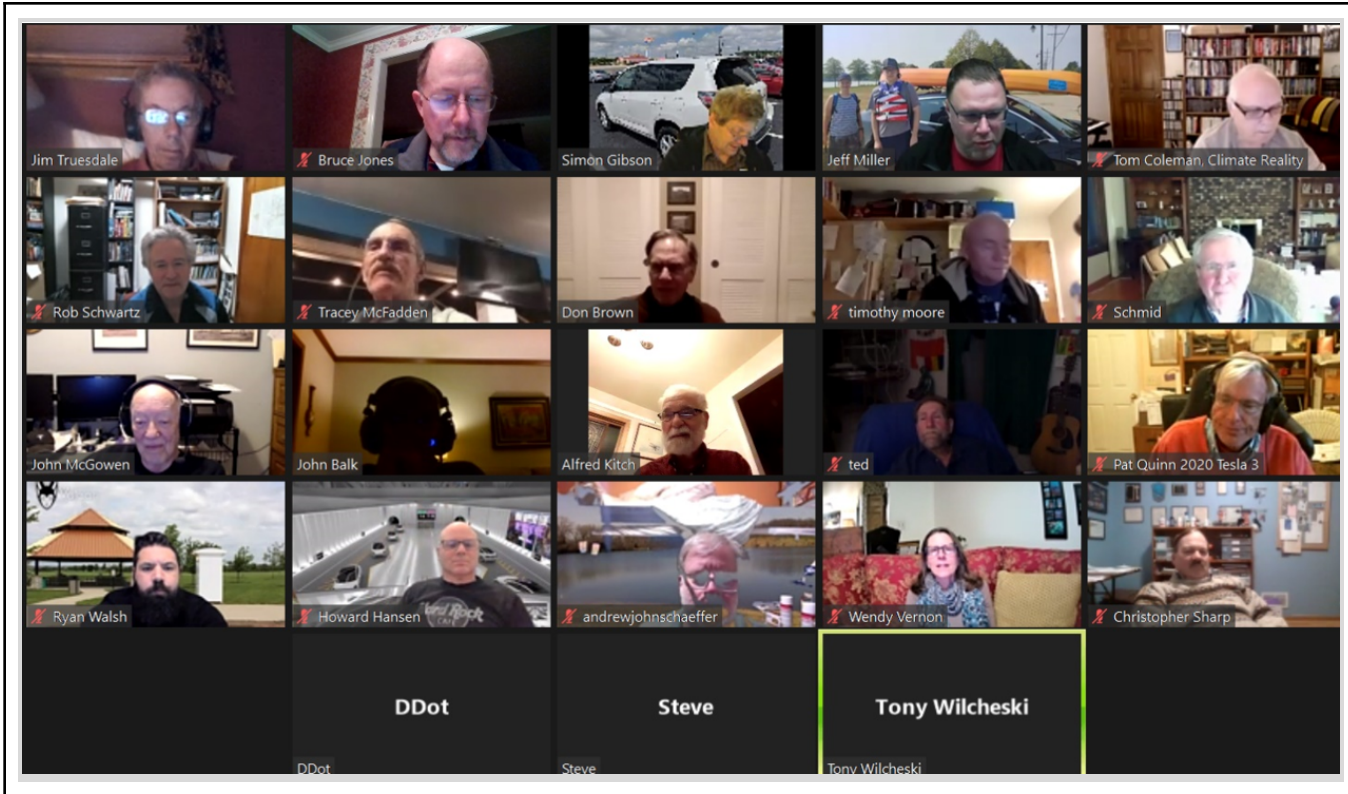
Tues., May 3, The 2022 Green Drives Conference and Expo

- 8:30 am to 4 pm
- NIU Naperville Meeting & Conference Center
- 1120 E. Diehl Road, Naperville, IL 60563
- **Green Drives** – one of the largest clean-transportation conferences held in the Midwest – is a must-attend event for government officials, commercial & municipal fleet managers, corporate sustainability officers, and clean-tech & clean-energy professionals who want to learn how to use cleaner, lower emissions fuels and technologies, while saving money.
- Advanced vehicle technologies, electric vehicles, and alternative fuels will be showcased, including dozens of green vehicles and exhibitors. Network with experts from throughout the nation & region. Hear first-hand experiences from fleets currently using alternative fuels and electric vehicles. Attendees can test drive vehicles of all different sizes.
- Cost to attend
- Website: [2022 Green Drives \(chicagocleancities.org\)](http://chicagocleancities.org)

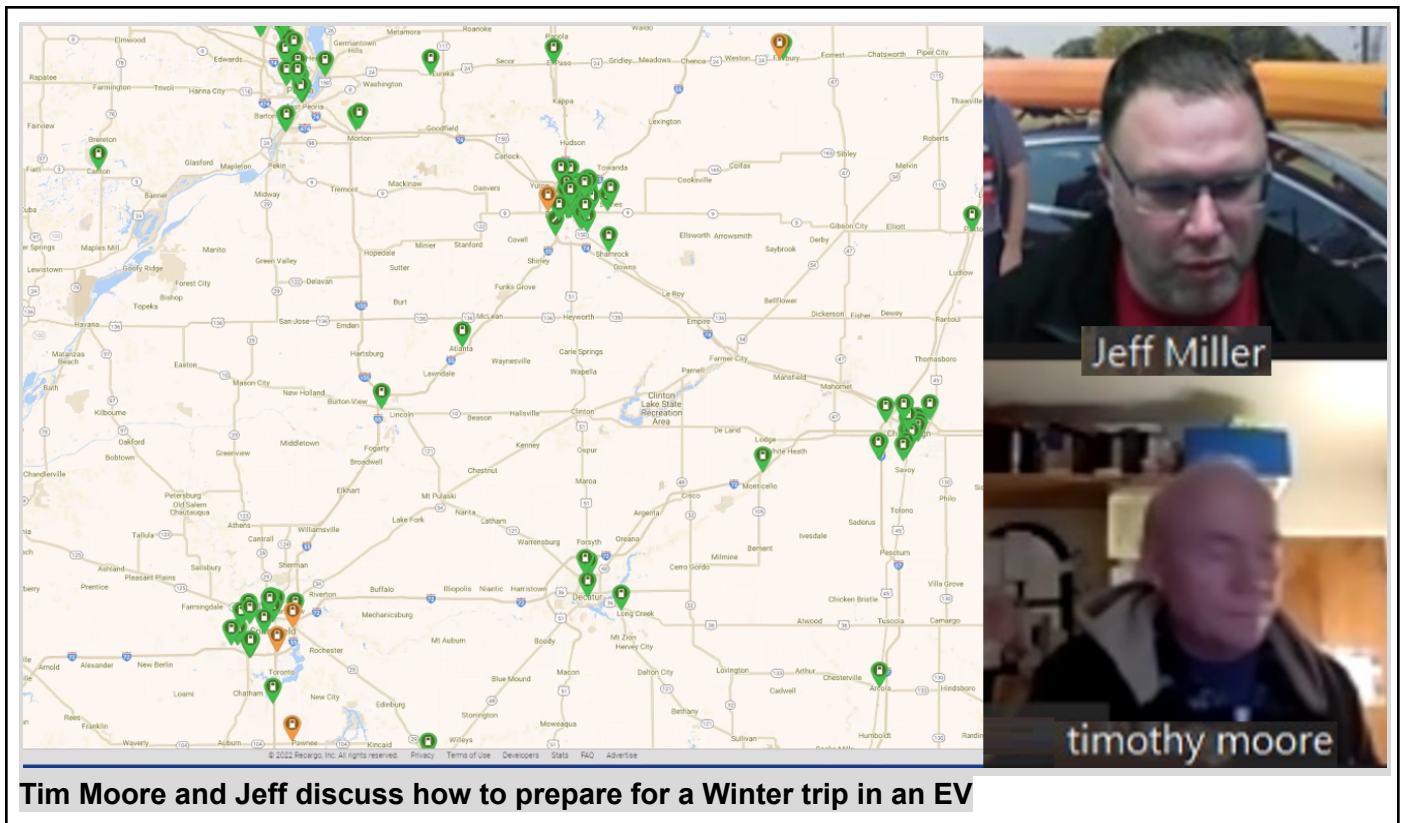
Photos of our Meeting February 18, 2021

Bruce Jones

Meeting attendees



Ryan Walsh, CEO of Valqari describes the last mile drone delivery system being developed. Thanks Ryan for the excellent presentation!



CRADLE TO GRAVE COMPARISON OF GREENHOUSE GAS EMISSIONS FROM ICE, HYBRID & EV CARS, SUVs, TRUCKS Bruce Jones

BEST PRESENTATION ON FULL LIFECYCLE COMPARISON OF GREENHOUSE GAS EMISSIONS FROM BEVs, PHEVs, AND ICE CARS, SUVs and TRUCKS!

This is a MUST SEE
<https://www.youtube.com/watch?v=rUIbdq0dOAO>

Login to our FVEAA website for access to lots of member-only tools! Ted Lowe

Hi Folks, If you haven't logged in to our website already, please check your email for instructions and login to check it out! Please let me know if you have any questions. Thanks!



FVEAA Web Report

as of 2022-03-15 04:58:11

Website Registered User Statistics

Statistic	Value
Total Users	87
Users Never Logged In	33
% Active Users	62.1%
Ave. Days Since Last Visit	392.8 days

FVEAA On Facebook - Join Us! Like Us!

Ted Lowe

The **FVEAA Facebook group** has 119 members as of 1/17/22! 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/>

Here is the **FVEAA's Facebook Page**. Like Us!

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

FVEAA On YouTube - Check out our videos!

Ted Lowe

The **Fox Valley Electric Auto Association** has a YouTube channel! Subscribe to us and check out our videos! We've had this channel for many years but we're going to start using it more to attract new members and promote EVs. Please let me know if you have some FVEAA-related videos to post.

https://www.youtube.com/channel/UCg_Pgp6q-HEuMICWMO2akPw

Membership Update

Ted Lowe

We currently have **66 active paid-up** members. Many members have taken advantage of the multi-year renewals offered by the new website! **Please renew & recruit new folks!!!**



FVEAA Membership Report

as of 2022-03-15 04:58:11

Count of Members by Type

Membership Type	Count	Paid Up
Business	1	1
Family	4	4
Individual	61	59
Lifetime	2	2
Totals	68	66

Other Statistics

Statistic	Value
% Paid Up	97.1%
Avg. Paid Up Days	352.2 days
% With Email	95.6%

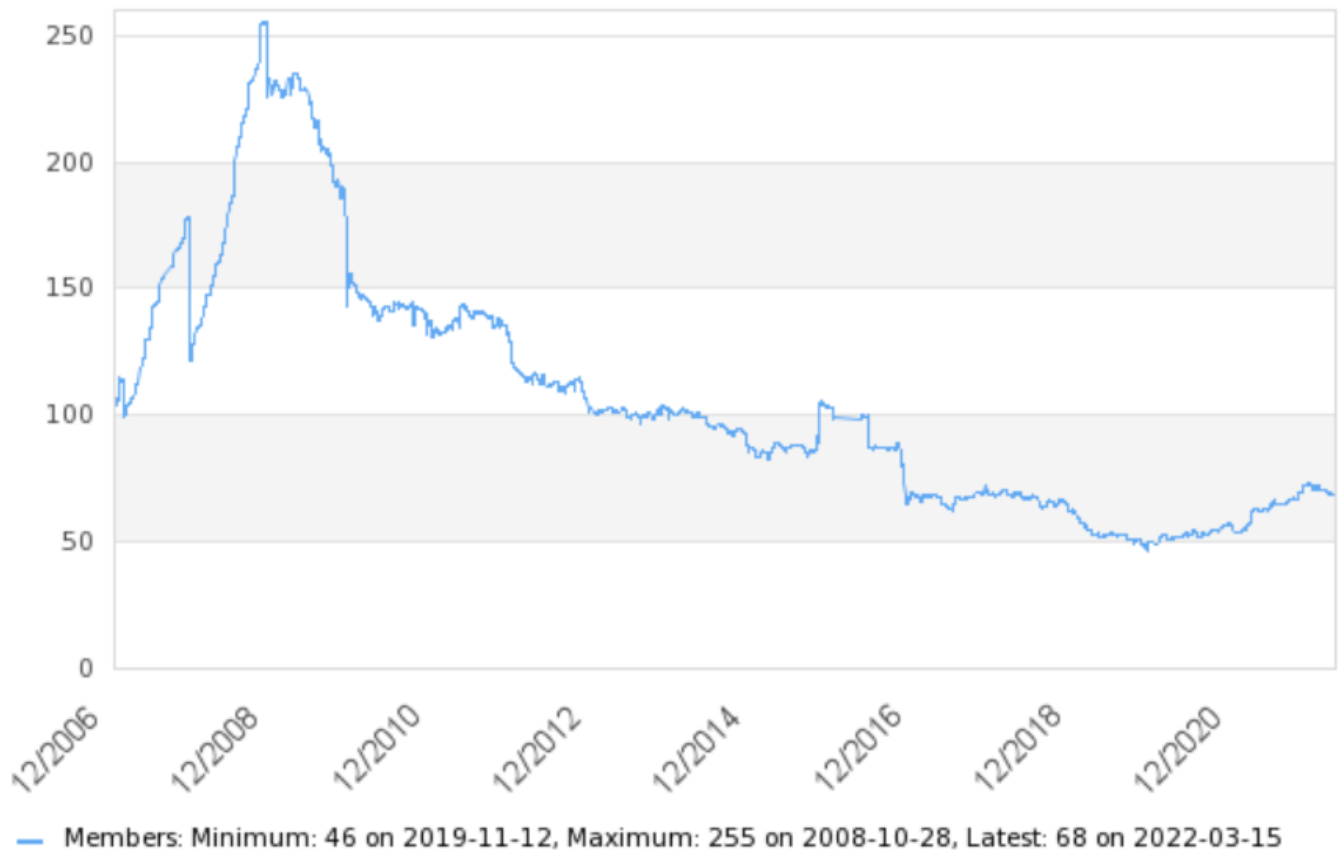
Encouraging Our Membership To Grow and Some History

Ted Lowe

We are growing! 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 any time, 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 255 members in October 2008 when gas was nearing \$5 per gallon. We were also attending lots more invitational EVentS with our converted EVs. The first Tesla Roadster was just coming into being. **Let's get out there and grow the FVEAA!!!**

FVEAA Paid Up Members as of March 15, 2022 8:48am



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):

<https://www.fveaa.org/renew>

THANK YOU for your continued support of the FVEAA!

- **President Jeffrey Miller started the meeting at 7:03 p.m.**
- He hosted the Opening and Introductions

- Unique Mobility Electrek and Prius for sale
 - During introductions, Steve mentioned that he was looking to sell two cars including a 2009 Toyota Prius and his 1979 Electrek built by Unique Mobility a company in Colorado.
 - For Sale - 1. 2009 Toyota Prius Hybrid, 5 door, low mileage, rear fold down seats creating a large storage area, red exterior, tan interior.
 - 2. 1980 Unique Mobility Electrek, 2 door sport coupe, #5 of approx. 40 hand built in CO, only EV in the world that you can change the battery pack in 5 mins. by yourself. Please email Steve, ib1777@yahoo.com
 - (see video per Kyle)
https://www.youtube.com/watch?v=FyZd4_2unFM&ab_channel=AgingWheels
 - The board will discuss at the next board meeting.

- Volta birthday
 - Of note John McGowen wished a 277th happy birthday to Volta born on 2/18/1745. Volta was an Italian physicist whose invention of the electric battery provided the first source of continuous current.

- Resto mod 1978 Ford F100 Eluminator
 - This Concept Vehicle is shown in a video from Jay Leno's Garage based on a Mustang MachE GT performance edition. The electric drive line provides 480 horsepower and is sold by Ford as a crate motor for around \$4k. <https://www.youtube.com/watch?v=IJQZzg6rWyo>

- **Valqari Drone Infrastructure Solutions Presentation**
 - Ryan Walsh is the CEO and co-founder of Valqari, a new startup company looking to provide electric drone-based last mile package delivery solutions.
 - Ryan presented on their drone delivery and secure vault system that they developed. The company has 28 patents so far and 20 more are pending.
 - They have an API and Cloud network solution - the future of last mile delivery.
 - The FAA will finalize regulations for such drone delivery companies in the next year.
 - Valqari will be a leading contender for market share, and they are still looking for investors.
 - **Thanks Ryan! Contact Ryan if you are a deep pocket investor interested in Valqari.**
 - **Ryan.Walsh@valqari.com 630-886-4749**

- Break 8:05- 8:15 p.m.

- **Winter Road Trips in an EV. What could possibly go wrong?**
 - Tim Moore and Jeff Miller tag teamed on a presentation/ discussion on what to look out for, and how to prepare for a winter road trip in an EV.
 - After a series of successful EV trips Tim had taken, he and wife needed to travel a long distance in short timeframe to Arkansas, which did not turn out as planned.
 - They covered Conditions, How to Plan, and ended with a demo from Jeff on route planning.
 - **Thanks Jeff and Tim for this helpful review!** , it will certainly provide us EVerS with good thoughts on preparation for such travel.

- The meeting adjourned at around 9:30

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

EV Converters LLC

Rolly Waller
130 Windsor Park Dr, C121
Carol Stream, IL 60188
Cell: 630-865-5744
Email: rollywaller@gmail.com



EVC will become a Franchisor (when the US government approves the conversion rebate) to appoint Franchisees (eg, service stations, oil change shops, transmission shops, independent mechanics, etc.) to convert Internal Combustion Engine (ICE) vehicles to electric vehicles (EV).