



September 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 <<<NOTE CHANGE IN DATE SEPT. 9th

September 9, 2016 7:00 p.m. to 9:30 p.m.

Community Christian Church

1635 Emerson Lane
Naperville, IL 60540

[Google Map](#)

Agenda

- 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
- 7:20 Polo Shirts
- 7:25 Recent Outreach Events
- 7:30 Bob Baker - NDEW event in Lake Barrington on Sat Sept 17th.
- 7:45 Bruce Jones – NDEW event at Naperville Test Track Sun Sept 18th
- 8:00 September Officer & Board Elections
- Break
- 8:40 Bob Baker – Electric Vehicles
- 9:00 The Chevrolet Volt, then and now, old versus new (if time allows)
- 9:15 Close

President's Words

Bruce Jones

Hi EVeryone;

Thanks to Mike Willuweit for the excellent Plug Share presentation last month. Check it out here [.PlugShare](#)
Speaking of finding your next charge, Andy Schaeffer shared the other day a web site called [Next Charge or GoElectricStations](#) which provides a nice status of EVSE near you. Let me know how you like these sites.

Illinois Renewable Energy Association Sustainability Fair - Oregon ILSat Aug. 20

Guess who was at the fair? None other than Chris Sharp, Dave Aarvold, Tom Brunka and long timer Tom Cartwright!

It was great catching up with these members, past members and past presenters. And Tom Brunka who

presented on the controversial topic of battery charging without a BMS, and on electric motor brushes agreed to come and speak in October on a fascinating issue surrounding voltages seeking ground in an electric vehicle. October will also feature Bill Becker on cool technology for solar panels on car roofs.



Jeff Green's iMiev and Bruce's Hupmobile PHEV Aug 20, 2016 at the IREA Sustainability Fair at the Ogle County fairgrounds



Tom Cartwright and his Volt. Also saw Dave Aarvold, Chris Sharp and Tom Brunka at the fair.!

NATIONAL DRIVE ELECTRIC WEEK

- Event: **National Drive Electric Week EVENT 1** [Click here> NDEW Lake Barrington Sat Sept 17](#)
 Date: Saturday **September 17, 2016**,
 Setup at Noon, present from 1 p.m.to 4 pm take down afterwards
 Location MAP to: [Bob's Hillview Auto 4 Hillview Dr. Lake Barrington](#)

| Vehicles as of 9/4 | Registered |
|-----------------------|------------|
| Chevrolet Volt | 3 |
| EV Conversion | 2 |
| Nissan LEAF | 2 |
| 3 Models | 7 |

- Event: **National Drive Electric Week EVENT 2** [Click here> NDEW Naperville Sun Sept 18](#)
 Date: **Sunday September 18, 2016**,
 Times: Setup at Noon, present from 1 p.m.to 4 pm, then pizza!
 Location - MAP to : [Naperville Test Track 1720 W Jefferson in Naperville](#)

| Vehicles as of 9/4 | Registered |
|----------------------------|------------|
| Nissan LEAF | 6 |
| Tesla Model S | 3 |
| Chevrolet Volt | 1 |
| EV Conversion | 1 |
| Ford C-MAX Energi | 1 |
| Ford Focus Electric | 1 |
| Mitsubishi i-MiEV | 1 |
| Tesla Model X | 1 |
| 8 Models | 15 |

There is also a 3rd NDEW Event in Evanston on Sunday 18th 11:00 a.m. - 2:00 p.m. in case you're in that area

[NDEW Evanston Sun Sept 18](#)

Polo Shirts

We received new batch of FVEAA polo shirts so bring \$20 to the next meeting. For everyone coming to the NDEW events we'd like to be in our polo shirts.

Election Nominations Open this Meeting

Nominations will be opened and will remain open until we hold elections at the next meeting Sept.16th, 2016.

Current officers are listed below.

- President: Bruce Jones
- Vice President: Rich Hirschberg
- Treasurer: Jeffrey Miller
- Secretary: Mike Willuweit
- Board: Rich Carroll, Jim Schmidt, (open - previously George Hiller)

Hope everyone is having a wonderful Summer, see you Friday! **ONE WEEK EARLIER THAN USUAL so we can prepare for the NDEW events the following week.**

Sincerely, Bruce Jones

This Month's Presentations Sept 9th 2016

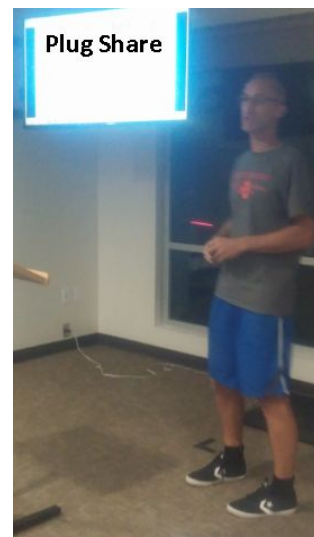
- It's the annual FVEAA Elections night! So bring your memberships up to date please so you can vote
- Bob Baker will first discuss National Drive Electric Week event at his shop in Lake Barrington. Sat Sept 17
- Bob also wants to share some great information on electric vehicles with the group
- Bruce Jones will discuss NDEW for the Sept 18 Ride - n - Drive event
- And if time allows compare the old vs. new Chevy Volt and what it has to offer

Photos of Last Meeting July 15, 2016

Bruce Jones



Mike's iMiev gets a boost



Mike Willuweit presents on the Plug Share EVSE application

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

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/>

Does Micro translate well to Macro? We may find out soon.

Two or three years ago, Smartphone users accepted the degradation in battery life for the lithium ion batteries in their phones, and even used the diminished capacity as an excuse to purchase a new phone. Major carriers all reported customers coming in before their two year contract, wanting a new phone and replacement of their six-months-to-go contract. As times changed, the phone's initial purchase costs are more in line with their actual costs, largely due to the rates becoming more competitive and less able to carry a portion of the initial phone cost.

New polls¹ show that almost half of smartphone users wait three or more years before upgrades, some until their phone stops working. Sony has a plan for that, but it isn't involving a swap to the battery.

The Lithium Ion cells in phones will continue to work for many years, but their capacity diminishes by repeated recharging cycles. Jun Makino, Senior Project Marketing Manager at Sony Mobile is addressing this problem by modifying the charging cycles for these lithium Ion batteries.

Apparently one of the largest factors in the diminishing capacity is charging to 100% and keeping the charge at 100 for hours. Consider that you likely put your phone on charge for an overnight charge, sometimes that charge reaches 80% or 100 % in five hours. The next hours until you take your phone off the charger are critical, and certainly shortens capacity. Sony has now partnered with Californian Qnovo to add technology to Xperia smartphones to not only stop charging after a reasonable level is reached, they may automatically delay the start of charging, so that when you start in the morning, you have just reached the maximum charge. Sony believes this will more than double the cycle life of these batteries from 500 to 700 times to around 1300 times.

The simple chargers in cell phones can tell that you pick up your phone at 6:15 in the morning on Monday through Friday, and by 10 AM on weekends. It can delay the start of charging so that it is just finishing as you need it. ²

Would delayed start work for recharging Lithium Ion batteries in automobiles? Very likely yes, but is it more difficult to predict when to anticipate the owner will remove the charger and be ready to drive. It

is possible for the charger to charge to 80%, and then cut off, or way back, until the car is driven again.

And the data seem to work at the other end of the spectrum, allowing Sony to state, “This is important, a battery that’s usually kept at a charge between 20% and 80% of its capacity is much healthier - it’s going to the extremes that wears it out at a faster rate.”³

1 <http://www.emarketer.com/Article/Smartphone-Owners-Wait-Years-Replace-Handsets/1014149>

2 <https://www.theguardian.com/technology/2016/sep/01/sony-boost-smartphone-batteries-people-are-not-replacing-phones>

3 https://hardware.slashdot.org/story/16/09/01/166245/sony-to-boost-smartphone-batteries-because-people-arent-replacing-phones?utm_source=feedburner&utm_medium=feed&utm_campaign=Feed%3A+Slashdot%2Fslashdot+%28Slashdot%29

This One was something I missed earlier.

Most EV drivers/builders/enthusiasts realize that one or two person, three wheeled EV’s have several distinct advantages, not the least of which is the automotive manufacturing laws that don’t apply to them, as they are considered three wheel motorcycles. SAM has been producing three wheeled EV’s in Poland for seven years, although their production numbers are quite small. They have specific plans to bring them to the USA next year. They want to start in California and Florida markets, although that decision ignores the really high population numbers of Poles in Chicago and in Illinois. There are 1.1 million people of Polish ethnicity in the Chicago Metro area, making Chicago the largest Polish city outside of Poland. In 2016, SAM has expanded it’s market to Switzerland, Germany, Austria, and the U.K.

Think of a steel chassis covered with an enclosed polyethylene body. Add a pinch of ugly to a Corbin Sparrow and you are on the right track.



It features a single, gull wing door that folds to allow easy access. It has a second seat, although accommodations there don’t look promising for full sized adults.

The specifications on the car are quite interesting. It uses Lithium Ion batteries, and you have your choice of two pack sizes. With the basic pack, range is 80 - 100 km (50 - 62 miles) and the cost of the vehicle in Poland is about \$12,350. The larger pack adds \$2,000 to the price, and gives a range of about 100 miles (161 km) Certainly not an LSV, it’s top speed is 56 mph (about 90 km/h). Charging times are

unclear, as they quote a standard outlet to charge the pack in 5 hours, but don't mention if the Polish standard is 220 V (common throughout Europe) or something else.

Further readings:

http://newatlas.com/sam-electric-vehicle/45226/?utm_source=Gizmag+Subscribers&utm_campaign=fa775c8f95-UA-2235360-4&utm_medium=email&utm_term=0_65b67362bd-fa775c8f95-91720873

<http://newatlas.com/sam-electric-vehicle/45226/pictures>

<http://friends-of-sam.com/en/>

<http://sam-of-usa.com/> (which has a very interesting cost comparison calculator on the bottom of their main page.

And before you make wild conclusions, David Berkowicz was not Polish, but of Jewish and Italian-American ancestry.

https://en.wikipedia.org/wiki/David_Berkowitz#Early_life



A Medical Update

I can recall several 'ominous diseases' that meant a deep, serious discussion with the parents about a child's lifespan that was significantly shortened. Over my lifetime, I watched as several diseases went from an expected shortened life span (sometimes months, sometimes a couple of years) to predictions of a relatively normal life span. The progress in Medicine is truly amazing, and the research people just keep finding new ways to approach old problems. I had a total knee replacement in 2002, and struggled to get back to work in seven weeks. I had lots of pain, lots of discomfort and in the end, a few limitations.

I had the other knee replaced two weeks ago. A larger incision was the only downside. In 2002, the Orthopedic Surgeon picked the best titanium replacement he could find. In 2016, the Orthopedic Surgeon looks at special CT scans of the knee and 'prints' the pieces on a specialized 3D printer. At two weeks post-op, I don't have to take the narcotic pain medicine unless the physical therapist plans on more flexible increased stretching. I did my rehab twice today, and while the knee is really achy, it responds to a heating pad. I have had no pain medication in more than 24 hours. I could not have said that in 2002 until six to seven weeks post op. And the plastic left knee joint has significantly more range than my Titanium right knee. The moral of the story is, with the rapid advances in medicine, your knowledge that Uncle Joe had xx disease and would die soon may not be true anymore. I remember a landmark study only twenty years ago that showed patients with congestive heart failure had an average of 18 months before death. I was diagnosed in 2007 with congestive heart failure (7 + years ago) and my heart is better now than then. So are my knees!

<<Note: And for that we are so very thankful! - Bruce>> << Great to know Rich! - Ted>>

Membership Update

Ted Lowe

We currently have **86 active paid-up** members!

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!



FVEAA Membership Report as of 2016-09-05 04:58:21

Count of Members by Type

| Membership Type | Count | Paid Up |
|-----------------|-------|---------|
| BusinessPremier | 1 | 1 |
| BusinessStd | 2 | 2 |
| Family | 8 | 8 |
| Individual | 73 | 72 |
| LifetimeInd | 3 | 3 |
| Totals | 87 | 86 |

Other Statistics

| Statistic | Value |
|-------------------|------------|
| % Paid Up | 98.9% |
| Avg. Paid Up Days | 142.5 days |
| % With Email | 96.6% |

August 19, 2016 Meeting Notes

7:00 Call to order

7:00 -7:30 Welcomes & Introductions

John Emde made a request that the club sponsor his Insight dragster by buying him 2 racing slicks at an approximate total cost of \$400. He would put the club logo on the car.

7:35 Old Business -- none

7:35 Review last meeting and last month EVents (Bob Baker's car show and Green Fair on the Fox)

7:45 New Business -- none

7:45 Survey results from Dan MacKenzie

Committee Reports

Rich H. talked about tomorrow's Renewable Green fair in Oregon, IL

National Drive electric report

Bob Baker talked about the Northern Event for NDEW

Break -- 8:00pm

8:30 -- Bruce talked about the Naperville NDEW. Jeff Miller volunteered to man the FVEAA booth.

Bob Baker will help with managing parking.

We will be having a parade for NDEW at 1:15pm on Sunday 9/18.

Staging the parade cars on Jefferson, coordinated by Steve.

Motion to move September meeting to 9/9/16 rather than 9/16. Motion passed.

Suburban Life Newspaper allows free advertising, we need to pursue that.

Ted is going to make a facebook event page. Please share this if you are on facebook.

Grant Gerke is willing to help with the facebook page.

Discussed presenting Rich Carroll a lifetime membership in FVEAA.

Open nominations

Mike Willuweit nominated for President

Rich Hirschberg nominated for Vice President

Jeff Miller nominated for Treasurer

Bruce Jones nominated for Secretary

Bob Baker nominated for Board Member

Marty Belovitz nominated for Board member

Ted Lowe nominated for Board member

John Emde nominated for Board member

Jim Schmidt pending nomination

Matt Remec is interested in being part of a 501(c)3 committee

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



ELEVATE ENERGY
Smarter energy use for all

Elevate Energy
Mary Jo Warskow
300 S Green St, Suite 300
Chicago, IL 60607
Phone: 773-922-3018
Web: hourlypricing.comed.com

**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

ENROLL NOW

ComEd powering lives
energizing people



Exclusive worldwide distributor of
WarP™, ImPulse™, and TransWarP™
electric motors for use in electric vehicles
and electric vehicle conversions.

WWW.GO-EV.COM 800 S State St. Suite 4
Lockport, IL 60441
630.243.9100



Best Hybrid Batteries

Only The Best

Michael Bradley
18600 IL-59
Shorewood, IL 60404
Phone: 708-669-9402
Email: besthybridbatteries@gmail.com
Web: www.besthybridbatteries.com