

Fox Valley Electric Auto Association

**PO Box 214
Wheaton, IL 60187-0214**

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SEPT. 2013 FVEAA Newsletter

The FVEAA is a Not-For-Profit Illinois Corporation and the Chicago Area Chapter of The Electric Auto Association

Next Meeting

September 20, 2013

Community Christian Church

1635 Emerson Lane, Naperville, Illinois 60540

at the intersection of Ogden and Rickert Drive in Naperville

Also called the "Yellow Box." We'll meet in the little theater west side, 1st floor

DOORS OPEN 6:30 p.m. MEETING STARTS 7:00 p.m. ENDS 9:15 p.m. Directions:

[Community Christian Church](#)

Agenda

- 6:30 Doors Open
- 7:00 Call to order - Welcome
- Committee Reports
- Old business / New Business
- OFFICER ELECTIONS
- Upcoming Plug-in Day 2013 Plans - SEPT 29th 1:00 p.m.- 4:00 p.m. Naperville test track 1720 W. Jefferson Ave. Naperville
- Steve Buher - a) Plug-in Prius and b) Renewable energy education
- Break
- David Zygmunt - Model S adventure tour around Lake Michigan
- Rich Hirschberg - History of the Electric Vehicle
- Close

FVEAA is now on Facebook thanks to member Grant Gerke. Check it out at <https://www.facebook.com/FoxValleyElectricAutoAssociation?fref=ts>

President's Words

Bruce Jones

Hi EVeryone,

More PHETs and PETs?

Over the last couple of months, we had Jim Schmidt present his beautifully designed, hand crafted ELECTRIC boat, which I felt should be classified under some new category, maybe “Plug-in Hybrid Electric Transportation” or perhaps better, “PETS” or Plug-in Electric Transportation?”

As I look around now there are other new technologies that fit the category: Airplanes.

AIRPLANES?

Electric Airplanes. Well it’s not what you think. Not the solar powered kind. Think electric powered airplane wheels for taxiing back and forth from the runway to the gate or to the hanger.

When an airplane powers up its engines at the gate, backs up, and taxis down to the end of the runway, it waits its turn to take off and a huge amount of fuel is wasted moving the airplane around on the ground. So companies like WheelTug and Safran-Honeywell are developing electric powered wheels – either electric front nose gear or electric main landing gear for airplanes. The electric wheels move the airplane down the tarmac to the runway before takeoff. This makes sense for short and medium flights because the fuel saved by electric taxiing is more than the additional fuel required to fly the additional weight of the electric motors. The system uses the auxiliary battery system already on the plane

http://www.aviationweek.com/Article.aspx?id=/article-xml/awx_06_16_2013_p0-588629.xml&p=1

ELECTIONS

This month we have our annual elections so members should please try to make it to cast your votes, as this is a very important meeting.

NATIONAL PLUG-IN DAY SEPTEMBER 29TH 1:00 – 4:00 p.m.

We are booking the Naperville test track that Sunday from 1:00 to 4:00 p.m. All FVEAA members should bring their electric vehicles to show to the public. 1720 West Jefferson Avenue, in Naperville. We’ll need folks to set up and tear down, and then eat some pizza!

The city is waiving the registration fee for us to use the track as we're a non-profit organization and they have a few "free days" left in their budget. Nissan is already planning on bringing 4 Leafs (2 for test drives around the test track.) Naperville is one of the few places in the U.S. that has its own test track where all the local car dealers take prospective car buyers to test drive their cars. Keeps them off the main roads and is a safer place for new drivers to try out new and possibly unfamiliar controls.

We need

Tables, Tarp, Chairs, Cold drinks and refreshments, Current map of charging station locations

Handouts, Signs, Marketing

EVERYone bring their Electric Vehicles !!!

THIS MONTH - STEVE BUHER

Steve will be speaking on two subjects

a) The Plug-in Prius and how to own one in Illinois

b) Educational opportunities in Renewable energy - including Masters in renewable energy. His talk will include "Our Critical National Need to Utilize Renewable Energy"

TESLA MODEL S TOUR

We also have David Zygmunt who is taking a trip around Lake Michigan in his Tesla Model S. He'll be describing his adventures fresh off the trip from Sept 13 to the 17th.

HISTORY OF THE ELECTRIC VEHICLE

And if there is time in the program we'll have VP Rich Hirschberg provide a talk on the History of the Electric Vehicle. He's got a great presentation ready to roll and we'll be eager to see it.

Pictures



Chuck Carrington's 1975 MG Midget





BEI Sensor - per Marty Belovitz



Madison, Wisconsin-Area Charging Stations

Ted Lowe

Dave Benforado from Madison Gas & Electric (direct line 608-252-7906) writes:

“Greetings FVEAA,

If you could help get the word out that Madison WI has a bunch of EV chargers, including a new Quick Charger just off I-90/94, in case any of your folks are thinking about a road trip north, that would be appreciated! Here's what I posted on your FB page yesterday:

Thinking about an EV roadtrip to or through Wisconsin? Wanted to make sure you were aware that Madison Gas & Electric has installed 27 EV charging stations in the Madison area (including a quick charging station that will charge your CHAdeMO equipped Nissan Leaf or Mitsubishi I-MiEV to 80% in less than 30"). For more information and to request an access card, please complete the form at <http://www.mge.com/evmobile> or call (608) 252-7117 between 8 a.m. and 4:30 p.m.”

Rich's Ramblings

Rich Carroll

Just about the time you think you know EV's well, another EV study pops up in an unusual place, and using EV's because of a different one of their strengths. The Canadian Government has commissioned a study of electric and hybrid electric snowmobiles for stealth use in clandestine operations in the Arctic. Now I do understand that sound carries much longer distances above ground covered with ice and frozen snow. The Canadian Department of National Defence (by the way the spelling in Canada, Australia, and Great Britain is “defence,” where we use “defense” in the US) has allocated \$620,000 CAD for these studies. You say you remember the Canadian dollar being worth less? At current rates, \$620,000 CAD is about \$600,367 USD, Worth less . . . not so much. The US \$ will buy \$1.03 in Canadian dollars and the Royal Canadian Mint is no longer making pennies. They (the Royal Canadian Mint) are actually buying up the pennies in Canada (35 billion of them) and melting them to recycle the metals. So if you want to change your US dollar, you may simply get a Canadian

dollar in return.

The Canadian Department of National Defence is vitally interested in sneaking up on outlaws in the wild arctic areas. The government issued a preliminary report, but so much information was redacted (blacked out) that the report was quite difficult to read, and hard to see any conclusions.

Some Canadian policy experts have questioned if this is money wisely spent. Michael Byers, who teaches International Law at the University of British Columbia and a former federal NDP candidate said, "I don't see a whole lot of evidence that criminals and terrorists are scooting around Canada's North on snowmobiles and that we have to sneak up on them." Byers wondered if the defence officials have an obsession with high technology, and stated the officials might not have an accurate picture of Canada's actual needs. Byers added, "I can't help but wonder whether they've been watching too many (James) Bond movies."

Perhaps this is an acknowledgement (Can. sp.) that when we analyse (Can. sp) government behaviour (Can. Sp.) of our neighbour (Can. Sp.) it can be labelled (Can. sp.) with the same humour (Can. sp.) as ours.

Bob's Hillview Auto Listing Updated

Ted Lowe

Thanks go out to Bob Baker who has been a long time sponsor of the FVEAA! Check out his updated sponsorship listing below, which now includes his website: www.bobshillviewauto.com

Meeting Minutes

Dio Vesselinov

President Bruce Jones opened the meeting at 7:00 p.m. and attendees introduced themselves. Remember dues are only \$15 per year, the best deal in town. He presented the agenda and the Electric Drive Transportation Agency (EDTA) chart was presented showing the steady sales and progress that electric vehicles are making.

PHET or PET

Bruce suggested a new term is needed, perhaps Plug-in Hybrid Electric Transportation (PHET) to describe new ways to use electric motors like in Jim Schmidt's electric boat. He showed several videos of Jim's open house in McHenry including demonstrations of boat building methods and he even had some music from the "Cleff Hangers," John Jeidi's barbershop quartet.

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NOMINATIONS ARE OPEN

Nominations were opened for next month's annual election and the following members were nominated, to be listed on the ballot. Additional nominations will be accepted before the election in September.

PRESIDENT – Bruce Jones

VICE PRESIDENT – Rich Hirschberg

SECRETARY – Grant Gerke, (*Dio Vesselinov was listed but has since declined due to a special assignment*)

TREASURER – Todd Dore

THREE MEMBERS WILL BE VOTED ON TO SERVE ON THE BOARD OF DIRECTORS OUT OF

Rich Carroll John Emde Ted Lowe Todd Martin Jim Schmidt

CHUCK CARRINGTON'S 1975 MG MIDGET, AND 2012 NISSAN LEAF

Chuck Carrington gave a personal overview of his experiences with his electric vehicles, a 1975 MG Midget, and his 2012 Nissan LEAF

For a long time Chuck wanted a sports car but figured it needed to be an extra car. Then when he got interested in electric vehicles he felt that would have to be an extra car too. But he got both in one car by locating a 1975 MG Midget for sale on NEEAA.org in 2006. It came with an Advanced DC 8" motor and DCP 156V 600 amp controller, an 84V system made up of 14 – 6V batteries. He gets 50 miles per charge and the longest trip was 70 miles in one day from home (Evanston) to work (Franklin Park), to Packer Engineering in Naperville, and from there to home again.

The 84V system however was too slow so he upgraded it to 132V, and got a new Zivan charger which provides the needed pep. He really likes the fact the MG is a rag top and being an antique it also gets him into car shows where he can talk to people about EV's.

Nissan Leaf

In 2012 Chuck bought a Nissan Leaf. He tried to wait to compare it to the Ford Focus, but Ford was not

providing much information at the time, and his Grease powered car (yes it ran on waste oil) was smoking badly. So he bought a Leaf.

Chuck was surprised that in the 6 years from when he registered the MG to when he registered the Leaf only 110 electric cars had been registered in Illinois.

The Leaf was his 1st new car, and the fastest car he has owned in a long time. It is hard to compare the 2 cars because of age differences but the main difference is the Leaf is very comfy. The longest trip is to the FVEAA meetings, 86 miles round trip with a stop in Franklin Park. Range drops in cold weather for both cars, which is normal for electric cars. And he has had issues running low on electricity when other people use the car... but don't tell him about it... and then he drives the car. The most annoying thing about the car is the "fuel gage" affectionately known as the "Guess O Meter" in his case.

Thanks Chuck, for a thoroughly enjoyable presentation!

BREAK

At the break we looked at the many electric vehicles brought to the meeting.

ELECTRONIC THROTTLES

Marty Belovitz, FVEAA club member for over 5 years was educated at Northern Illinois University in Industrial engineering, and mechanical engineering at Harper College. He is currently at Somers Stanton Inc. and a representative for BEI Sensors.

His presentation was a very technical discussion on "Looking at the future of throttle Control ." This was an excellent talk and demonstration of electronic throttles, their advantages over using potentiometers (pot boxes) or contactors.

BEI sensors featured the 9960 Hall effect sensor advantages:

- Non-contact (although still mechanically connected)
- Long life, typically over 10 million cycles
- Voltage type output
- Programmable
- Companies like Tesla, Nissan, Mitsubishi, other OEM's

Inductive

- Long life
- No need for magnets
- Controls its own magnetic field
- Currently use truly non-contact type

Other advantages of the programmable

- Throttle curve Programmability
- Possibility of dual independent output
- Repeatability
- Programmability
- Ability to be programmed to match pedal throws

Marty then provided a demonstration on how simple it is to program the throttle - with a little assistance from Rich Carroll. The demonstration included:

- 24V power supply
- 5V power supply
- Curtis 1211-4302 Controller
- 24 V electric Motor
- IEC foot pedal
- BEI foot pedal
- BEI programming kit.

Thanks Marty!

CHARGING STATION MOTION PASSED

Todd Martin made a motion to provide financial support for 3 public charging stations in Elgin Illinois. He was contacted by the City of Elgin's Sustainability Commission chair, Gary Mastersson who would like to apply money in Elgin's Green grant program toward installing more free charging stations in Elgin. Note that the FVEAA donated a free AVCON charger to the City of Elgin at the 95 Symphony Way parking garage which is adjacent to the Hemmens Cultural Center and the city's indoor recreations center. The charging station has since been replaced by the City with a modern J1772 charger and is frequently used. They are looking at installing 3 new charging stations in public parking spots around the city.

The grant program requires a non-profit group to pay for ½ of the cost. The grant would pay for the 2nd half and the city would do the installation with in-house electricians. A rough estimate is \$800 for each charger, \$2400 total, so the FVEAA would donate around \$1200.00

Todd sought FVEAA board approval for the submittal of the grant submission and he will write the grant to be approved by the FVEAA board first.

It was decided that the FVEAA will pay to city of Elgin an amount not exceeding \$1400 as

recommended by Rich Carroll, and approved. Motion was seconded, passed as approved by Bruce, Dio, Rich Carroll, Ted Lowe and Todd Dore.

The meeting adjourned at 9:25 p.m.

Membership Form

Ted Lowe

FVEAA Membership Application Form

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 ? _____

Member Types and Annual Dues (Please circle one)	Newsletter Delivery Types (Please circle one)
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Individual	\$15	No Newsletter	\$0
Family	\$20	Electronic Only	\$0
Business	\$100	Postal Mailed	\$15
Premier Business	\$250	Postal Mailed and Electronic	\$15
Charter Business	\$500		

Total Due from Both Columns:

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

Netgain Motors, Inc.



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

900 N State St, Suite 101
Lockport, IL 60441
630-243-9100
Fax: 630-685-4054

www.go-ev.com



Bob's Hillview Auto

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Harris Precision Tools

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Plug-In Vehicle Solutions, Inc.

Mike Piscitelli

1104 Coventry Circle

Glendale Heights, IL 60139

Cell: 620-248-8810

Email: mpiscitelli@getplugging.com

Web: www.getplugging.com