

**Fox Valley Electric Auto Association  
PO Box 214  
Wheaton, IL 60187-0214**

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## **September 2011 FVEAA Newsletter**

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

### **Next Meeting**

**Friday, September 15th, 2011 - 7:00PM (doors open at 6:30PM) at Packer Engineering, 1976 N Washington St, Naperville, IL 60563**

**Packer Engineering is the on East side of Washington St, just North of the I-88 Tollway (North of Diehl, South of Warrenville Rd). Turn off of Washington onto Bighorn at the Packer Engineering sign, then take the first right into Packer Engineering and then an immediate left. Park in the lot between the buildings. 1976 is the new building up the hill. Enter the building in the middle of the North side.**

### **Agenda**

- Call To Order
- Old Business
- Committee Reports
- New Business
- FVEAA Elections
- Intermission: Refreshments, Networking and EV Viewing.
- Program:
  - Rich Carroll will display a few of the websites discussed in his President's Words column and show what's available.
  - Bruce Jones and Scott Fauque will talk about the charging information Scott gets from "MY VOLT"

## Finding a Charging Station with a Computer or a Smart Phone

As many members have already figured out, I use charts extensively, as I feel they represent an easy way to make a comparison between several alternatives. It allows you to focus on the areas that are important to you, while presenting the entire picture. This month, I tried to compare several mapping services so members could find a service (or multiple services) that they could use in order to get the information they need.

So, you're out, and need an opportunity charge. What resources do you have? How can you find a charger for your EV if you are not familiar with the area? Several Web based programs will map you to a charging station. Some services have iPhone or Android apps to help, alternately, you can use a browser and a map. All these services use the Google Maps API (Application Programming Interface) but some implement a limited map, some allow you to the full range of Google Maps services, including custom directions, 'street view,' distance calculations, detailed instructions with pictures of each turn, etc. If you want my opinion, I want a large map, and the full range of directions, pictures, ability to overlay a traffic layer, etc. which are all available in the full Google API. The information below was rechecked 9/10/11, but will change with time.

Company	URL	Maps: W= Web based I = iPhone based A = Android based B = Black Berry	Who is the owner?	Map size, full Google API implementation (may offer street view, detailed directions, etc.)	Results can be filtered by equipment	Include equipment description
Charging Stations	<a href="http://www.chargingstations.com/">http://www.chargingstations.com/</a>	W	Chad Fisher	Small map, limited API	N	2 clicks
CarStations†	<a href="http://carstations.com/">http://carstations.com/</a>	W	Court Rye	Medium map, limited functions, can click 'directions' to get into API.	Y	1 click
Charge Point *	<a href="https://www.chargepointportal.net/index.php/">https://www.chargepointportal.net/index.php/</a>	W, I, A, B	Coulomb/ Carbon Day	Medium size maps, can click site to get to full functions through directions.	Y	1 click, once zoomed in**
Blink Mobile	<a href="http://www.blinknetwork.com/locator.html">http://www.blinknetwork.com/locator.html</a>	W, I, A	Ecotality	Medium map, limited API, can do directions, no pictures, no street view, etc.	N	1 click
US Dept. of Energy	<a href="http://www.afdc.energy.gov/afdc/progs/print_station.php?38852">http://www.afdc.energy.gov/afdc/progs/print_station.php?38852</a>	W	US Government	Medium map, limited API	N	2 clicks
EV Charger maps	<a href="http://www.evchargermaps.com/?Address=Anaheim&amp;Want=SPI%20LPI%20AVC%20OC&amp;Zoom=9">http://www.evchargermaps.com/?Address=Anaheim&amp;Want=SPI%20LPI%20AVC%20OC&amp;Zoom=9</a>	W	Private	Large map, limited API	Y	1 click

Google Maps (search for "EV charging station near ...")	<a href="http://g.co/maps/9aywp">http://g.co/maps/9aywp</a>	W, I, A	Google	Large map, complete API	N	2 clicks
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† Used to be <http://electric.carstations.com/>

\* Requires registration, no charge to register, but charger connection fees will apply. Subscriptions available.

\*\* Can set so zoom is not needed, but loose # of chargers at location. (without zooming in, can be set to show number of chargers at location, or pin to show equipment)

Well, competition in the marketplace is generally considered good, but I strongly suspect that this is going to shake out real fast. Some company that can present the ALL the information in an easy to read, feature rich interface will likely be the winner. An ad supported interface may be the winner, perhaps a private group with a subscription to the info service will be the winner, perhaps some company that can offer the total package, charging, notifications, and a charger base will be the winner. Right now, with Coulomb showing several of the new 350Green sites, they look the most promising, but this could change radically if a current also-ran makes a deal to add significant information (and sufficient value) to their offering. Google Maps with the EV charger overlay could easily take over, due to it's rich interface. With Google you can see if the route is hilly, if it is filled with traffic, or if there is construction on the way.

Now this market is pretty fractionated, with lots of diversity. There is absolutely room left for a new service, and the Google Maps API is very easy to license, and to get working. Getting it to work with databases that store the status of individual charging stations is much more of a challenge, but not impossible. To that end, Google offers API applications in JavaScript, Flash, or by using URL information requests, and manipulation with XML or JSON. Google will provide you with working scripts that you can modify for your own pages.

So, as an overview, generally one charger locating service may not be enough. Several factors would affect your choice, such as:

- Number of stations a particular service offers in your area
- Your registration with a site
- The importance of filtering on equipment (e.g. selecting just AVCON)
- The importance of seeing charging station status on line
- The ability to make a reservation
- Whether the software can be accessed with your smartphone through a special app

## First Responder Presentation - August 2011

*Rich Carroll*

A couple of folks have asked for a copy of the presentation I showed at the August FVEAA meeting. If you will go to the FVEAA website, and sign in, among the choices in the left (red) column is 'File Bank' under 'Member Menu.' To download files from the File Bank, you will be asked to enter a search string. Simply enter 'FirstResponder' or 'First Responders' and you will get a choice of three formats. Here is a direct link, which assumes you are already signed into the FVEAA website:

[http://www.fveaa.org/index.php?option=com\\_fb&Itemid=44&action=do\\_search&actid=FirstResponder](http://www.fveaa.org/index.php?option=com_fb&Itemid=44&action=do_search&actid=FirstResponder)

Files with the .ppt extension will work in the latest Microsoft PowerPoint (or in Open Office or Libre Office). Files with the .odp extension will work in Open Office or Libre Office. If you don't have any presentation software on your computer, you may download the .pdf files, and the presentation will be a file of readable pages, using a .pdf reader like Adobe Reader. If you need, here are links to some free software to read these files.

<http://www.adobe.com/products/acrobat/readstep2.html>

<http://lo.libreoffice.org/download/>

These presentations were exactly as I present them. You are encouraged to remove my name and information and add your name as the presenter. I feel very strongly that this information is very important to First Responders, and really want club members to present locally to their fire departments. You are also encouraged to add or subtract from these presentations as you see fit.

There are hundreds of individual Fire Departments in the area ( [http://www.chicagoareafire.com/CAF\\_Mabas\\_index\\_table.html](http://www.chicagoareafire.com/CAF_Mabas_index_table.html) ) and no one person or committee could cover them all. Talk to your local firefighters, offer to present the program, and listen.

## **Meeting Minutes - August 2011**

*Bruce Jones*

### FVEAA MEETING 8/19/2011

President Rich Carroll started the meeting at 7:00 p.m. and everyone introduced themselves.

He then promoted membership - the best \$15 you'll ever spend! Using PayPal on-line is the easiest and best way to sign up.

### SLICK EV TRADE RAGS

Rich then passed around a couple of excellent international electric and hybrid vehicle technology magazines with stunning graphics. And they're free! Go to <http://www.ukipme.com/recard/evcard.html> per Rich Carroll and see Automotive engineering international magazine as recommended by Rich Hirschberg, <http://Aei-online.org>

### CEVC

The Chicago Electric Vehicle Consortium was headed by Dave Habiger, who is in Europe. There is nothing to report as the rollout is now being handled by Roland Berger.

### COMMITTEE REPORTS

#### OUTREACH

Rich Hirschberg handed out the flyer for the Midwest Green Car Expo Sept. 10 in Elgin. We need electric vehicles to attend, as they provide credibility for our club, value and promotion for EVs. Sign up sooner the better. Rich Hirschberg is also a member of the Chicago area clean cities coalition which promotes hydrogen /fuel cell vehicles so contact Rich if you can be there.

#### BOY SCOUT ANTIQUE EV

On the 2<sup>nd</sup> weekend in October, a group of Boy Scouts will convert a 1937 Ford Truck into an electric vehicle based on an S-10 truck chassis. Sponsored by the Northern Star Council BSA in Minneapolis the project is now being funded through a Pepsi challenge grant that they won, out of 70k entrants.

#### GREEN CAR SHOW - NAPERVILLE

On Tuesday Aug. 30<sup>th</sup> come to the Naperville Green Car show, from 3:00 pm - 8:00 p.m. sponsored by Judy Biggert, the Congressional Representative from Illinois' 13<sup>th</sup> District. Naperville's mayor Pradel will be there at the 7 acre test track area off Jefferson Street. This show will feature hybrids and electric cars from a variety of companies like Navistar, and possibly a hydraulic hybrid motor that uses pumps and pressure to run. Argonne Labs will be there to talk to advanced battery chemistries. Location 1720 West Jefferson.

### LEGISLATION

Speaking of congress, Bruce Jones mentioned that there are several pieces of legislation in the works, including one sponsored by representative Judy Biggert, H.R. 1685: Electric Drive Vehicle Deployment Act of 2011. Also in the preliminary works is Senate 948: Promoting Electric Vehicles Act of 2011. And more legislation is in the Illinois legislature.

NEWSLETTER No news

FINANCE No news

## FINACIAL ASSISTANCE No News

### ELECTIONS - NEXT MEETING

Nomination for officers are now open as the bylaws state that nominations start with the August meeting and close at the September meeting. Several nominations were then made: Nominations were seconded and accepted by Ted Lowe as director for his current positions (see below)

Citing health concerns Rich Carroll declined nomination for President  
Bruce Jones accepted a seconded nomination for President  
Bob Baker accepted a seconded nomination for Director  
Ken Simmermon accepted a seconded nominated as Director  
A motion was made and seconded for Todd Dore as Treasurer

Here is the current FVEAA Board: (these are elected positions)

President Rich Carroll  
Vice President Todd Martin  
Secretary Bruce Jones  
Treasurer Todd Dore  
Director Rich Hirschberg  
Director Ken Simmermon  
Director Ted Lowe

Committee Chairs: (NON elected positions)

Charging Infrastructure Todd Martin  
Legislative Affairs open  
Membership Ted Lowe  
Outreach Rich Hirschberg  
Programs Rich Carroll  
Publications Nathan Stowe  
Technical Projects Ken Simmermon  
Electronic Communications Ted Lowe  
Finance Todd Dore  
Financial Assistance George Vergara

### CAR PART SURVEY

For Rich's monthly survey he asked, "in what way do member cars generate the 12vDC for auxiliary power - lights, horn etc.?" He received a wide variety of answers including DC to DC converter off 12VDC, Iota 55 and many other solutions.

OLD BUSINESS - None

### NEW BUSINESS

Chris and Phil Young did a Chevy S-10 conversion

### THE YELLOW 2000 PORSCHE BOXTER CONVERSION

Jon Emde then gave an excellent presentation on the yellow Porsche EV conversion he recently finished. The car was originally received in May 2007 and now contains a NetGain Warp 11" motor, and around 15kWh of Thundersky 180 amp hour batteries. Insulated custom steel boxes were built to contain the cells and limit their expansion as Lithium batteries tend to swell when discharged too fast. A basic but inexpensive BMS (battery management system) keeps the batteries within .1 volt of each other, turns off the charger when batteries full, and tells the driver when to let off the throttle. The car has a 75 to 100 mile range and the well finished car was displayed at the break and it's a beauty. Nice job John!

### BREAK

There were several electric cars on display at the break including an S-10 conversion from Chris and Phil Young, the yellow Porsche by John Emde, and Scott Fauque's Chevy Volt among others.

### FIRST RESPONDER PRESENTATION

Rich Carroll used his medical background and love of electric vehicles to prepare an excellent training presentation for Fire Departments as First Responders to an Electric Vehicle accident. It focused on safety, vehicles speeds, what is lethal, how to identify an

electric vehicle and what to do when arriving upon the scene of an accident, like turning the car off with the key fob.

There are some lethal voltages involved with Electric Vehicles so Rich developed the program based on EV fires safety brochures, material safety data sheets, vendor vehicle safety guides and a homeland security document. Some of the original documentation he received had conflicting statements, so he did his best to present logical safety procedures. Some of his warnings include, don't ground yourself, don't connect yourself to the vehicle and orange (high voltage) cables should NOT be cut!

He is now making this program available to FVEAA members who are interested in learning the safety aspects and giving training sessions to their local Fire Departments. Typically a presenter might receive a \$100 honorarium for such training. This was an outstanding presentation for an important cause. Thanks Rich! Great job.

The meeting adjourned at 9:30 p.m.

The photos that follow are, as usual, courtesy of Bruce Jones.



Representative Judy Biggert, Mark Aubry (Navistar), Mayor Pradel (in the Navistar eStar truck) and Brian Levin (Carbonday) at the Green Car Expo 2011-08-30 at the Naperville test track off of Jefferson St.



Congressional Representative Judy Biggert speaks to the crowd at her Green Car Expo 2011-08-30



Naperville's Mayor Pradel with FVEA president Rich Carroll at Aug. 30, 2011 Green Car Expo



FVEAA President Rich Carroll, Mayor Pradel (in the Navistar truck) and Congressional Representative Judy Biggert at her Green Car Expo 2011-08-30



Naperville Green Car Expo 2011-08-30



John Emde enjoying the electrified yellow Porsche he converted. WOW!



John Emde explains the excellent yellow Porsche conversion project

John Emde with electrified yellow Porsche  
at the Green Car Expo 2011-08-30





**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 ? \_\_\_\_\_

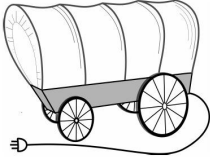
<b>Member Types and Annual Dues</b> (Please circle one)		<b>Newsletter Delivery Types</b> (Please circle one)	
Individual	\$15	No Newsletter	\$0
Family	\$20	Electronic Only	\$0
Business	\$100	Postal Mailed	\$15
Premier Business	\$250	Postal Mailed and Electronic	\$15
Charter Business	\$500		
Total Due from Both Columns:			

Please make your check payable to "FVEAA" and postal mail it with this membership application form to:

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 Attn: Membership

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