

Directions: From the Boughton & Weber Rd intersection, go south 0.5mi (past all the malls) and turn right (west) on Clow Intl. Pkwy. Park in the lot next to Charlie's Restaurant. The meeting is in the Packer Wings hangar (second hangar north from the parking lot). Enter the hangar from the side door on the south side.

Meeting: Friday, January 19th
Doors open at 7:00PM
Meeting starts at 7:30PM
Clow International Airport
130 S Clow Intl. Pkwy, Bolingbrook, IL 60440

Fox Valley Electric Auto Association
PO Box 214
Wheaton, IL 60189-0214

January 2007	FVEAA NEWSLETTER Fox Valley Electric Auto Association A Not-For-Profit Illinois Corporation & Chapter of the Electric Auto Association (www.eaaev.org)	
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Meeting Agenda

Ted Lowe

Call to Order and Introductions

Approval of Minutes

Treasurer's Report – Dale Corel

Old Business

- Renewals – LAST LAST nag!
- 6th EVER anyone ?
- Charging Infrastructure Donations!
- New Club Project – *Tim Moore*

New Business

- Event reminder: Townhall Meeting on Global Warming
- Website Forums and other new features
- Future meeting programs – LED lighting, tachometers, E-meter, heated seats, etc. ???

Member Show-and-Tell

(agenda continued on next page)

(agenda continued)

Intermission – Refreshments, Networking and Raffle

Programs

Jim DeBoth – Trip to Telsa

Ray's son Jim will talk about his trip to California to ride in and order his Tesla roadster and show some pictures from his trip.

Niel Nielsen – GM Built S-10

Niel will talk about his recent purchase, a GM-built S-10, one of only 60 on planet Earth! He will be driving his EV to the meeting for inspection.

Ed Meyer – New Charger Update

Find out what new technology Ed has up his sleeve!

Jim Dawson – Recent Road Warrior

Jim will talk more about the recent completion of his EV conversion and will have his EV at the meeting for inspection.

President's Words – The State of the FVEAA Speech

Ted Lowe



Happy 2007! **The state of the FVEAA is GREAT!** We have a growing and excellent membership, nice newsletter, lots of interesting projects going on, the mostly highly attended monthly meetings of all EAA chapters, solid financial status, an increasingly useful website and great plans for 2007 and into the future.

I plan to focus on these important FVEAA projects this year:

- 1) finding a new “permanent” meeting place for our meetings,
- 2) our Charging Infrastructure project and 3) obtaining 501(c)3 status from the IRA (and state sales tax exemption status from IL).

I will be calling on various FVEEAers to help on these and other important projects, so run now! (Now you can't say you weren't warned :-). May your 2007 bring good health and happiness.

Meeting Minutes

Rich Carroll

Minutes for FVEAA meeting December 15, 2006 at Clow Airport in Bolingbrook.

The meeting was called to order at 7:39 P.M. An attendance sheet was passed around. Ted Lowe introduced himself, then he asked each attendee to introduce themselves. The minutes from the previous meeting were approved.

The Treasurer's report showed our savings account had \$1715.03 for a total in the bank of \$7618.96. There was a motion to approve the report with minor amending, and the motion passed.

Greg Zanis showed pictures of his prototype electric car, and is building a smaller model in wood, then a full size in wood, then a full



size car in steel. His web site is: <http://www.DreamCar123.com>

Dues renewals need to be paid now. Ted passed around the renewal forms.

Online ordering of business cards, badges and shirts is pending. Web site difficulties have delayed this. Two sided color flyers are printed, cost is 0.05 each to the club. See a club officer if you have a need for these.

New business: charging station infrastructure. EAA has indeed formed a special, tax deductible fund used for us to buy our chargers for the infrastructure. EAA is planning on matching current donations. They have a lifetime cap for \$2500 to match these funds. The match is on the EAA agenda for their meeting, which is at the same time as our meeting.

We received a charging station this month, to be placed a branch of the Chicago Public Library. This building was engineered by Primera Engineering from Chicago; they have applied for LEED Certification (the lowest level of LEED rating, but still very tough) which is why they installed the Avcon. LEED (Leadership in Energy and Environmental Design) is a desirable certification for buildings in architectural circles. You get some LEED points the installation of such an Alternative Fuel supporting technology. Another Avcon will be at Clow, they will pay \$380 for the charger, \$175 for the receptacle on the vehicle, and \$10 for the sign. We already have a motion to spend up to 1500 from the club. Several individuals have offered to contribute to the fund. Two of our members donated at the meeting. Ken Simmermon offered to donate one of his talking interfaces.

“6th EVer” woes. There was a hiccup in the system, which appears to have been caused as some of the planners missed the guidelines. This seems to have been resolved. The conference theme is extending education into high schools and colleges.

Sherry Boschert has a new book Plug In Hybrids, The Car that will Recharge America. Ted announced three of these books have arrived, one was presented to Todd Dore, the owner of the first plug-in hybrid in Illinois. One was included in the evening's raffle.

Ted also showed a KTA catalog, and a Home Power magazine. He also showed several journals that he had received, both in EV's and in home power. Ted also had program guides from the EV expo from last year. He discussed the need to support the sponsors even if the event didn't occur.

We discussed adding on to the Alternative Energy Expo for participating in a show. We discussed getting a venue for another show. We discussed piggybacking on several different car shows. We are still looking for a facility to use for an Expo. Watering systems for batteries had been discussed in the past, and a new question was asked. Bill Shafer had described such a device in a past newsletter. We will see if we can locate the description and offer it to interested parties.

Todd Dore suggested that anyone going to the 6th EVer should come back with powerpoint program points that discuss the education opportunities and initiatives discussed.

There was a motion to buy two more large magnetic vinyl door signs promoting the FVEAA. Motion to spend up to \$100. Motion did not pass, Ted Lowe was encouraged to bring firm prices back to the group.

New club project. Last car was 2001 at Triton. We have a prospective member on the west side of Chicago, who intends to purchase all the items needed to build a quality electric vehicle. Ted wanted to form a new club project committee, and come up with a broad brush proposal to this individual. Ted would like to see a new committee formed to over see this team. Tim Moore offered to chair this program

After the break, Ted will discuss forums on the web site, etc.

---Break---

1. We raffled off one the Sherry Boschert books, and Kim Attig picked her father's (John Attig) ticket. Kim is a Chemistry major at UICU.
2. Web site woes. Ted has solved the difficulties related to people who were using our website to send out spam. We tried to solve the problem with the original hosting company, but this proved unworkable. Ted then changed hosting companies. Ted then took a web site tour. Included an introduction into the forums on the new web site.
3. Update on Prius Plug-In Hybrid from Todd Dore. Driving is similar to driving an electric vehicle. You learn how to drive to conserve energy.
4. Ed Meyer had constant current feature is working, but the constant voltage feature is not completed, nor is the polling feature. Other than that, little new.

The meeting was adjourned about 11pm.

Website Usage – Logging In For Member-Only Features

Ted Lowe

One of your FVEAA member benefits is a login on our website. When you login to our website, you will have access to our Member Roster, Member DB, Newsletters, File Browsing and Uploading and our new Forums (see separate article)! Here is the **Login Procedure**:

1. Start your web browser (Internet Explorer is the most common browser, Firefox=way better)
2. Goto to www.fveaa.org
3. Look for the login box on the left side of the front page
4. In the **Username** field, enter your firstname.lastname (that's first name DOT last name, eg, ted.lowe)
5. Your initial password is the same as your Username.
6. Once you've logged in, PLEASE change your password using the **Your Details** link.
7. If you forget your password, you can use the **Lost Password?** link and it will be emailed to you.

Please login soon and let me know if you have any questions or problems logging in. Thanks!

Charging Infrastructure Donations

Ted Lowe

The FVEAA donated \$1,500 to our special fund to purchase AVCON charging stations, and with the very generous donations of John Jeide (\$200), Tim Moore (\$100) and myself (\$200), we contributed \$2,000 total. The EAA will match our \$2,000 so we have \$4,000 to spend on the Charging Infrastructure project going forward! Did anyone else donate? Please let me know. Thanks all!

Poll – Why Haven't You Logged Into Our Website Yet?

Ted Lowe

All 107 FVEAA members have a login on our website, yet only a small percentage of members (22.2%, see report below) have ever logged in. For the large majority of you, why haven't you logged in yet?

Please check all that apply and give me a call with your results. Thanks, ted 630-260-0424

- | | |
|--|---|
| <input type="checkbox"/> Didn't know we had a website | <input type="checkbox"/> Too busy |
| <input type="checkbox"/> Don't know what logging in means | <input type="checkbox"/> Don't care |
| <input type="checkbox"/> Didn't know I had a login | <input type="checkbox"/> Can't use the computer |
| <input type="checkbox"/> Don't know how to login | <input type="checkbox"/> Don't own a computer |
| <input type="checkbox"/> Don't know what logging in will offer me | <input type="checkbox"/> None of the above |
| <input type="checkbox"/> There is nothing of interest on our website | <input type="checkbox"/> Other (please specify) |

Event – Townhall Meeting on Global Warming

Ted Lowe

Come one, come all to this Event! Now that we know about Global Warming, **What can we do about it?** This question will be addressed by a variety of local clean energy-promoting organizations like the FVEAA. I plan to be there with my EV! Here are the details:

Event: Townhall Meeting on Global Warming

When: Saturday, January 20, 2007 Time: 10:00am-12:30pm

Where: Whitney M. Young Magnet High School, 211 S Laflin St, Chicago

Website: <http://www.climatechicago.org>

New Website Feature – Forums !

Ted Lowe

The FVEAA Forums (the Forums for short) are ready for use! The Forums give us another way to communicate amongst ourselves between meetings and will help us organize our knowledge and projects! The Forums will augment our electronic communications (not replace email communication via the [fveaa] listserve). Forums are different than email listserves in two basic ways: 1) Email posted to a listserve is broadcast to all its members (the writer pushes their post to all members). On the other hand, posting to a Forum is like publishing an article in a magazine. It's up to the magazine readers to read the article (pull technology); and 2) Email all goes into a big bucket and is only 'organized' by the Subject line chosen by the writer. When posting to a Forum, the writer must decide up front what category to post to, and what sub-category (called a Board) and what topic (similar to Subject: line or thread). This results in more organized content to reference. Some Forum readers may want to read a specific category, but could care less about a different category. The Forum is like a magazine or newspaper in that respect.

For the time being, the Forums will be used only by FVEAA members and access is controlled by our website usernames and password. To access the Forums, login to our website and click on the **Forums** link on the **Member Menu**.

The Forums are generally organized like this:

Category 1

 Board 1

 Topic 1

 Topic 2

...
Board 2

...
Category 2

Board 1

...
and more specifically like this:

FVEAA Member Communications

General Communications

Meeting Announcements

EVents

Who Killed the Electric Car Film Showings

FVEAA Board of Directions Communications

Suggestions and Questions

BoD Discussions (restricted)

FVEAA Projects

Project: 501(c)3

Project: New Meeting Location

fveaa.org Web Site

fveaa.org Announcements

fveaa.org Comments, Suggestions, Feature Requests,...

Forum Look & Layout

Charging Infrastructure

Project Status

Suggested Charging Locations

Charging Location Updates

EV Projects

Conversion Projects

Add-On Projects

EV Ownership

To Convert or Buy Pre-Owned?

Licensing, Insurance

EV Maintenance

EV Repair

EV Charging

Ed Meyer Charger V2

EV Performance

Fast EVs!

NEDRA EVents

EV Range

EV Classifieds
EVs For Sale
EV Parts For Sale
Wanted

EV Technology
Batteries
Controllers

We can add categories and boards as we get used to the Forums.

Look for these useful Forum links to help you focus on what to read:

[Show unread posts since last visit.](#)

[Show new replies to your posts.](#)

PLEASE TRY THE FORUMS BEFORE THE NEXT MEETING!

See you on the FVEAA Forums!

New Website Feature – Knowledge Is Power

Ted Lowe

These reports help us understand more of what is going on in the FVEAA. You can find the daily generated reports by logging in to our website.



FVEAA Membership Report

as of 2007-01-15 05:05:01

Count of Members by Type

Membership Type	Count	Paid Up
Individual	104	81
Lifetime	3	3
Totals	107	84

Other Statistics

Statistic	Value
% Paid Up	78.5%
Avg. Paid Up Days	203.8 days
% With Email	87.9%
Reciprocal Newsletters	7

Membership Report - Important to a membership-supported organization to know the size and demographics of its membership. This helps us reach out to new members and assess our operational cash flow.



Website Registered User Statistics

Statistic	Value
Total Users	108
Users Never Logged In	84
% Active Users	22.2%
Ave. Days Since Last Visit	10.4 days

Web Report – Helps us understand how many members are using our website and how often. This is a measure of both our membership's net-savvy and our website's usefulness and appeal. We have room for improvement in both measurements!

Newsletter Editor

Rich Carroll

I did have a request to replace a lost copy of the newsletter this month. The request came via email, and it was easy to reply with an attached copy of the requested newsletter. But even faster than asking me to send a copy, is the ability to download newsletters from our comprehensive web site. Issues back to the turn of the century (JE - this is an in joke that most of the membership will not understand) are posted on the web site.



This month, we have a new feature detailing some of our members, and their opinions about what EV issues are important to them. My choices for the survey were pretty random, but they do not need to be random. If you have a story to tell, let me know, and we can easily push you up on my list. I plan to detail a couple of members each month.

FVEAA Members and Projects

Rich Carroll

I thought that it would help all of us to get to know other club members, so I have started a mini survey and mailed it to an assortment of club members. I picked in a manner that I would get some that are known to have running EV's, and some that don't. Here is some of the information from the first responses.

Dave Lewis, from Byron, Illinois has an S-10 that is comprised of parts of several different trucks. He lists the composition of the body as 1989, 1990, 1991, and 1992 with various parts from each year. His EV is powered by a Warp9 motor, and uses a Raptor controller. Dave tells me his truck has a top speed of 75 MPH, with a range of about 45-50 miles, which seems correct for his 120 volt system. His EV doesn't have AC, but does have some heat. (OK, so Dave listed it as poor) His S-10 is licensed as a regular truck, not using special plates. His truck has 20

six volt batteries, with six under the hood, and 14 under the pickup bed. All batteries are enclosed in polymax insulated containers.

Dave makes his living in electrical substation testing, and also has a hobby interest in amateur radio. Dave's thoughts on club priorities include the publication of places to recharge EV's and making those places easier to find.

Here is one photo of Dave's truck, you can see more at: <http://davelewis.fveaa.org>



Jeff Teppema is a stay at home dad and musician who lives in **LaGrange Park**. He drives a VW Rabbit converted to a 96 volt system from ElectroAutomotive. That probably means an 8 inch Advanced DC motor and a Curtis controller. Jeff's conversion uses the original 5-speed transmission from the Rabbit, and has eight batteries in the front, and eight in the rear. His summertime range is more than 40 miles, and has heat for the winter, but no air-conditioning. Jeff runs over 200 miles each week, and fully appreciates the EL series of plates which cost \$17.50 per year. When he isn't using his Black EV Rabbit, Jeff enjoys music, solar energy and playing with his kids.

Here is a side photo of Jeff's "El Rabbito." More pictures at: <http://jeffteppema.fveaa.org>



EV Discussion List

A resource

Are you looking for technical help on an EV project? If so, tap into an incredible resource on the Internet, the EVDL! This is a mailing list of EV experts and enthusiasts from all the world that pose questions and share answers on EV technical issues. It is a very active list, so setup an email filter to sort your email to a separate mailbox. More info at:

www.madkatz.com/ev/evlist.html

Welcome New FVEAAers

Ted Lowe

Join me in extending a warm welcome to new FVEAAers:

Timothy Gene Wagner, Columbia City
Ken Spurr, Elmhurst
Hugh Gerhardt, Holland Michigan!
Rick Korthauer, Aurora
Kenny Nguyen, Chicago
Tom Brunka, Brown Deer Wisconsin!

Jon Baker, Elmhurst
Andy Stephens, Aurora
Danny Rathburn, Elgin
Ed Harris, Lincolnwood
Dave Strange, Milwaukee

Welcome aboard folks! We hope to see you at meetings and other EVents! Let us know how we can be of help in your EV pursuits!

New Website Features – File Browsing and File Uploading

Ted Lowe

Once logging in, you will see two new links on the Member Menu: **File Explorer** and **File Uploader**. File Explorer is an easy-to-use program that lets you look through the FVEAA documents posted on our website. This feature will be increasingly useful as we continue to put more documents in place. You will find EAA Flyers, Newsletters, Clean Cities Coalition, Membership and Website usage information. File Uploader is a simple program that will let you upload a file to share from your computer to the website. You can use this feature to upload images for me to post on the website, or to send an 'attachment' for us all to see. Let me know if you have any questions on why or how to use these features.

EV's in the News

Rich Carroll

There is a lot of news to report, so I'll keep to the basics, and send links instead of full articles.

At the Detroit Auto Show, Chevy introduced a “concept vehicle” called the Volt. This is an EV for the first 40 miles, running on LiIon batteries. It also has on board a 1 liter, three cylinder, turbocharged, constant speed motor, which can start when the batteries run down, and both replenish the batteries, and provide enough electric power for the vehicle. The combination of electric motor and separate gasoline powered charging system can combine for 150 miles per gallon, or if you just commute the 40 miles to work, then plug in, work without gas at all.

The “gasoline” engine is a start of a new family of engines from GM called E-Flex system. These motors can run on any combination of gasoline and alcohol, up to, and including, 100% ethanol. A variation of the Volt has been built with a hydrogen powered fuel cell and a biodiesel configuration. The Chevy Volt is a four passenger car that looks most intriguing. I am certain it will also be presented

here at the Chicago Auto Show. For more information, see:

<http://www.technologyreview.com/Energy/18042/>

Ford is also readying a car with a somewhat similar drive train, an EV that powers it's drive system with a generator. Ford's converts hydrogen and oxygen to electricity in a small fuel cell mounted under the passenger compartment. Ford is promoting this as an emission free alternative. Ford has teamed with Airstream for a concept vehicle that will cause any enthusiast to drool. Check out:

<http://www.autoblog.com/2007/01/07/detroit-auto-show-ford-airstream-concept/>

Toyota's concept car is the FT-HS, which is a hybrid. Current hybrids have minimal excitement to their design, but the FT-HS is a sports car with the equivalent of 400 HP. Look for this also at the Chicago Auto Show. Details at:

<http://www.edmunds.com/insideline/do/Features/articleId=118933>

Subaru is currently testing the waters with their Switch, a 2+2 light city car. With a 62 mile an hour top speed and a 50 mile range, it could be a major player. One interesting feature of this car is it's ability to recharge in 15 minutes. See:

http://www.askaprice.com/torque-article.asp?article=Subaru_commended_for_electric_car&item=2550

Phoenix Motorcars is taking pre-orders for it's fleet of EV sport utility trucks. These are capable of freeway speeds, and more details are available:

<http://www.evworld.com/view.cfm?page=news&newsid=13926>

AC Propulsion took a Scion xB and converted it to an EV. This was shown at the AltCar Expo in Santa Monica this month. Who is AC Propulsion? The folks who are making the Tesla Roadster. What will a Scion do when converted to an eBox? Well, AC Propulsion claims 95 MPH and a range of 140 to 180 miles. Take your \$16,000 Scion, and add \$55,000 to it to get the above specifications, and Viola! you have a world class EV. See:

<http://www.acpropulsion.com/ebox/specifications.htm>

EVWorld has published (electronically) a news update of several areas of EV's, including new announcements, new cars, conversions. Some of my best information comes from EVWorld. See:

<http://www.evworld.com/>

For a while they had forums that were quite useful to folks in helping and seeking help. The forums were deluged with spam and taken off line, but have recently reappeared with new PHP scripting to prevent much of the spam problems. See:

<http://www.evworld.com/forums/>

On Yahoo! are lots of videos, but an excellent one is a video of a class for converting EV's. (C2TC2T) This is put on by the Electric Vehicle Association of San Diego, and uses information from several EV suppliers. This is an excellent intro to the world of EV conversions.

<http://video.google.com/videoplay?docid=5148280482272042028>

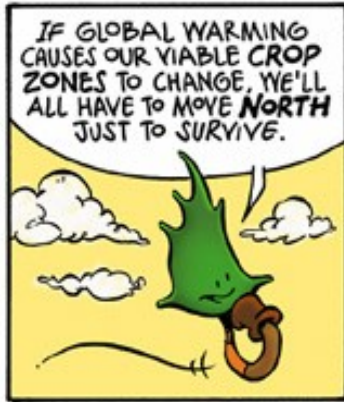
That's likely enough clicks for a partial evening of enjoyable reading. Come to the Chicago

Auto Show to see the latest introductions and concept cars.

Enjoy a few (page filling) comics:

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