

**Fox Valley Electric Auto Association**

**PO Box 214**

**Wheaton, IL 60187-0214**

Return Service Requested

## **FEB 2014 FVEAA Newsletter**

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

### **Next Meeting**

**February 21, 2014**

**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

Map: [Community Christian Church](#)

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

### **Agenda**

- 6:30 Doors Open
  - 7:00 Call to Order, Welcome and Introductions
  - Committee Reports
  - Old Business / New Business
  - Presentation:
  - Break
  - Presentation:
  - 9:15 Close
-

**FVEAA is now on Facebook** thanks to member Grant Gerke. Check it out and **Like** us at:

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

## President's Words

*Bruce Jones*

### Hi EVeryone,

Hope you all are hanging in there this winter and keeping warm. Has it ben cold or what? j just flew into O'Hare Saturday night and Lake Michigan was mostly frozen over. Here's a shot of Chicago as the plane approached the airport. Another headline I saw in the paper stated that most of the Great Lakes are mostly frozen.



Frozen Lake Michigan

### CCC weather delay

Speaking of weather, the low temperatures this season have been holding up progress on our EVSE installation at CCC where we meet, so let's hope we see warmer weather soon so the charging station can be installed by April 17 to take advantage of the state Green Fleet incentive programs. See:

<https://www2.illinois.gov/gov/green/Pages/ElectricVehicleInitiatives.aspx>

### EV Magazine - with club news

The other day I received 7 copies of a new magazine "Electric Car Insider" from publisher Christopher Alan out of San Diego. This run of the magazine includes a 2014 buyers guide to Electric Vehicles as well as some very good articles and local electric vehicle, EAA news. They want articles from electric auto groups like us, so lets see if we can contribute this year and support this effort!

Five magazines will be sold on Friday night on a first come first serve basis and cost \$5.95/month for a subscription. The good news is that the publisher is giving the FVEAA some of that back so we get a bit of the revenue.

Rich Hirschberg has been hard at work on developing the program this month while I've been attending personal issues, so hope to see everyone on Friday.

Thanks

**Bruce**

## This Month's Presenters

Ted Lowe - speaking on e-bike technology

Matt Remec - multi-fueled IC engine research

## Drive Clean Chicago

Editor

**Drive Clean Chicago** [www.DriveCleanChicago.com](http://www.DriveCleanChicago.com) is a \$14 million incentive program funded through the Chicago Department of Transportation (CDOT) with resources from the federal Congestion Mitigation Air Quality (CMAQ) program and comprises of three innovative funds to accelerate the adoption of alternative fuel vehicles in the City of Chicago and its six counties: Cook, DuPage, Kane, Lake, McHenry and Will. Each fund is entirely unique and includes a specific funding amount, eligibility requirements and application process. To ensure successful participation, **Drive Clean Chicago** is designed to provide applicants with a clear and efficient pathway to making a Drive-Clean technology investment.

### Drive Clean Truck

Chicago depends on the durability of its diesel truck fleet to move goods around the City every day. Although diesel trucks perform crucial services to help sustain our economy, they contribute to high levels of diesel emissions that negatively impact regional air quality and the public health of local communities.

The Drive Clean Truck - Voucher Program offers great incentives to help shift our diesel fleet to zero-emission vehicles. Fleet owners that operate Class 3 to Class 8 trucks can apply for funding to purchase All-Electric trucks (E-Trucks) or an All-Electric Drivetrain Retrofit. Because E-trucks are fuel and exhaust free, truck owners can benefit from the fuel savings, enhanced efficiencies and reduced maintenance. Advancing E-Trucks through Drive Clean Truck moves Chicago towards energy independence and a healthier environment.

### Program Details

- \$11,295,000 available for Class 3 to 8 All-Electric Trucks (E-Trucks) and Buses and Drivetrain Retrofits.
- Voucher covers \$30,000 and up depending on battery pack size.
- Applies to commercially available E-Trucks and Drivetrain Retrofits that meet federal and state regulations.
- Vendor/Dealer submits voucher request on behalf of Vehicle Purchaser.
- Leased vehicles are eligible.
- E-Truck must operate 75% of the time in the Chicago 6-county\* area.
- Vehicle Purchaser must comply with 3-year program commitment.

## **Drive Clean Taxi**

There are more than 6,300 taxis that populate Chicago's busy and congested roadways on a daily basis. Driving passengers to and from the airport and other important destinations, taxis contribute to a high level of vehicle miles traveled, fuel consumption and greenhouse gas (GHG) emissions.

The Drive Clean Taxi - Rebate Program is an excellent opportunity to transition our busy taxis to a cleaner, more efficient transportation fuel. Clean fuel vehicles make a compelling business case for a metro market business like taxis that have a return-to-base operation. With an estimated savings of \$1.25 to \$2 per equivalent gallon of gasoline, a taxi fleet running on CNG for instance will see positive economic and environmental benefits. Promoting clean fuel through **Drive Clean Taxi** is smart and sustainable solution to expanding our clean transportation network.

### **Program Details**

- \$1,275,000 available for Clean Fuel Taxis
- Rebate covers \$10,000 per vehicle conversion or incremental cost (lowest of the two).
- Applies to commercially available light duty passenger CNG vehicles or conversions.
- Vehicle must be EPA or CARB certified.
- Vehicle Purchaser submits rebate application.
- Clean Fuel Taxi must operate 75% of the time in the Chicago 6-county\* area.
- Vehicle Purchaser must comply with 3-year program commitment.

## **Drive Clean Station**

To advance the integration of alternative fuel vehicles in Chicago, the need for public fueling infrastructure is crucial to ensure successful expansion. Currently, there are only eight (8) public CNG fueling stations in the Chicago area. This is not sufficient to meet the region's growing demands for an alternative fuel vehicle market.

The Drive Clean Station - Rebate Program seeks to develop additional CNG fueling and DC Fast Charging stations for CNG and All-Electric vehicles throughout Chicago's 6-county area where infrastructure is poorly lacking. Drive Clean Station provides important incentives to help a fleet owner or station manager cover 30 percent of the capital costs for station development. This funding initiative supports the other funds offered through Drive Clean Chicago and compliments the State of Illinois Rebate Program for Level 2 Charging stations.

### **Program Details**

- \$1,425,000 available for "public" CNG fueling or DC Fast Charging stations.
- Rebate covers 30% of the capital cost for station development.
- End-User submits competitive cost proposal to Program Administrator.
- Stations must be proposed in the Chicago 6-county\* area.
- Projects with the highest fuel displacement and location with lack of alternative fuel infrastructure will be given preference.

## **Membership Update**

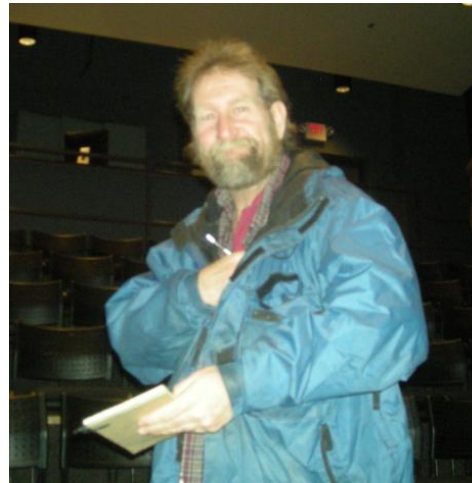
Ted Lowe

Let's GROW the FVEAA in 2014!

## Pictures



**John Emde presented George Hamstra's AMP all electric Off Road Vehicles**



**Ted Lowe posed good questions about energy consumption in America in his talk**



**An eye opening talk was given by Rich Carroll about the lack of security with current automobile communications through the On Board Diagnostic port**



**So how cold was it that third week in January?**

## Meeting Minutes

*Dio Vesselinov*

1. Agenda  
Introduction to a members and why they are in the club.

2. **Committee reports**

### 3. The “AMP” Show by John Emde

AMP are original all terrain vehicles kits from China converted to all-electric vehicles



2- or 4 wheel drive

Power 40KW 53 Hrp 72 Vdc

speed 45 MPH

Drive switchable 2-4 wheel drive

Hydraulic disc brakes

Charger Delta Q

Charge time 8Hrs

Controller 450Amp Altrax

weight 1880 LBS

Rack up to 250 load

Colors Orange /yellow/red/and blue

Dash port gages

Made up air filtration system for protecting the motor.

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

### 4. Ted Lowe

#### Energy Consumption Questions

Carbon foot print map

Carbon map by ZIP

Map Average miles per month per Zip Code

Average miles per month Chicago land

look for the links on the forums

### 5. Rich Carroll

#### Network Security in Automobiles

Our featured presenter was Rich Carroll who gave an eye opening and somewhat alarming talk about Network Security in Automobiles through the OBD and OBDII On Board Diagnostics port.

ECU -Electronic Control Unit

ECM Engine control Unit



Who rides the CAN bus?

Trouble codes require a reader

Who has the access to CAN bus?

Early age only wire connection.

Only plug under the front seat OBD port.

No master computer so no malware or virus protection

Today's market system allowed WIFI connection

Onstar GM system has full access to the car

The research been done to access the CAN bus to control the car  
after tapping into the bus almost everything in the car could be controlled remotely

Malware in the cars

3 known viruses

1.module attached to OBD board.

2.attach module anywere in the 12 v system

3Amodule

The solution

Automakers need to work on encryption and understand the seriousness of having network components hooked up to the car.

## Membership Form

Ted Lowe

### 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**



**NetGain  
Motors, Inc.**

---

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



**Bob's Hillview Auto**

Bob Baker

4c Hillview Dr

Lake Barrington, IL 60010

Work: 847-842-9543

Email: [bobshillviewauto@gmail.com](mailto:bobshillviewauto@gmail.com)

Web: [www.bobshillviewauto.com](http://www.bobshillviewauto.com)