

MEETING NOTICE

The next meeting will be friday MARCH 20th, at CRAGIN FEDERAL SAVINGS & LOAN 333 W. Wesley St. Wheaton, Illinois. - Time - 7:30 P.M. sharp. Guests are welcome and need not be members to attend the meeting.

GUEST SPEAKER

Our special guest speaker this month will be Mr. S. Ohba, owner of SOLEQ CORP., Chicago. They design and mfg. electronic inverters and other devices. They are also testing 7 prototype electric vehicles. Mr. Ohba will speak on the subject of immobilized electrolite in battery tests.

THE PRES SAYS

FVEAA CAR

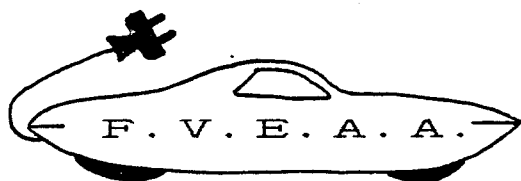
As agreed at the last meeting, the car has been moved to Member Newton's place for his examination. We will ask John to present his evaluation at a future meeting.

VIDEO PROJECT

Member Jerry Mitchell has agreed to assist in making our informational video. Member Emde has offered use of the excellent series of slides showing conversion of his Subaru. Additional suggestions will be taken at the March meeting so I can prepare a draft script for discussion in April.

HYBRID STUDY

This project will be on hold for a month so we may devote most of our meeting time to the featured speaker.



FOX VALLEY ELECTRIC AUTO ASSOCIATION

624 Pershing St. Wheaton, Il 60187

FIRST CLASS

ADDRESS CORRECTION REQUESTED

Minutes FVEAA Meeting 2/20/87 at Cragin Federal Savings & Loan Office, Wheaton, IL

President W.H. Shafer called the meeting to order at 7:31PM

There were 17 members present.

Treasurer V. Vana read the report of the club funds. There is a \$1081.01 Dollar balance in the NOW checking account and the savings account remains the same at \$764.42 Dollars.

The club agreed that the president would represent our club as an associate member of the Electric Auto Association in California and that we would exchange newsletters and other information to strengthen our relationship to the parent organization.

The video tape project for our club's public relations project was discussed and the need for a script became apparent before the actual taping can begin.

It was suggested that our club paper entitled the "Petroleum-Electric Vehicle" (A logical step to energy independence) be presented to the Chicago Chapter of Energy Engineers.

The Title to our club car has been settled with the Secretary of States office so that it is now listed as an electric vehicle

The property manager of the club, Dana Mock will make the assignments to individual members for use of the car.

It was agreed that each club member would assume responsibility for liability and accident insurance during the period that he has the club car in his possession.

The club librarian has 6 boxes of club material in his possession and is looking for volunteers to classify this material.

Frank Borg was a guest at our meeting and discussed a military vehicle that he had worked on that was a hybrid. The vehicle had a diesel and electric drive and was a joint venture of Westinghouse and LeTourneau.

Mr. Ohba of Soleq will present the program for our next meeting. The subject will include immobilized electrolyte batteries.

The meeting adjourned at 9:44PM.

Respectfully submitted,

Kenneth R. Woods
Kenneth R. Woods, Secretary

"I've just discovered oil on our property," a man told his wife. "Marvelous!" the wife said. "Now we can buy a new car!" The husband set her straight. "No, we'd better get the old one repaired. That's where the oil is coming from."



fox valley electric auto association inc.

11 March, 1987

REQUIREMENTS FOR FVEAA CAR USE

INTRODUCTION

The Fox Valley Electric Auto Association (FVEAA) owns an electric car converted from a salvaged 1975 FIAT. Members completed the work on the donated vehicle which was unfinished at the time it was received. Mechanical repairs were made and the FVEAA installed a new battery in the car. It is now operational.

It was originally planned to raffle the car in cooperation with a not-for-profit organization to provide funding for FVEAA activities. In December, the members approved a proposal to keep the car and allow use by Association members to familiarize those not yet having an electric car with the unique characteristics of electric vehicles. The biggest obstacle to this employment has been liability insurance. At the February meeting, the membership approved a car use concept. This draft document will be presented to the March meeting for approval of the proposed conditions relating to car usage.

SCOPE

The FVEAA owns an electric car, converted from a salvaged 1975 FIAT. The vehicle is identified by the following:

1975 FIAT, Model 128
Fourdoor Sedan, Black
Serial Number 128 A 11920287
State of Illinois Title Number B 9528007 issued 3-6-87
Illinois Electric Vehicle 1986-87 License # A (ELEC) 95
400-Amp (Continuous) 28-volt electric motor
FVEAA 400-Amp power transistor controller
36-volt battery consisting of 2 parallel strings

The following are the terms and conditions under which a member of the FVEAA will be allowed to use this vehicle to further the objectives of FVEAA.

VEHICLE MANAGEMENT

The Property Manager, an elected Officer of the FVEAA, shall be responsible for vehicle assignment. He shall determine that the car is in satisfactory electrical and mechanical condition when it is assigned to a member for use. He shall report any deficiencies to the attention of the President, and to the membership at the next regular meeting. The President is empowered to cancel a pending assignment if, in his judgement, a hazard is found which might jeopardize safe operation.

APPLICATION FOR USE

A member of FVEAA wishing to use the car shall request an assignment from the Property Manager, stating the intended purpose and assignment period desired. The standard assignment period is 30 days. Longer assignments may be granted by the Property Manager at his discretion. The Property Manager shall maintain a use log showing the following.

1. Name of the FVEAA member requesting assignment.
2. Date of application.
3. Stated assignment purpose.
4. Date on which car was moved to applicant.
5. Date on which the car was returned.
6. User comments.
7. Notes regarding car condition.

USER RESPONSIBILITY

While the car is in his custody, each user shall be responsible for the following:

1. Picking up the car from the previous user. The FVEAA has a towbar to assist in moving the car longer distances. When the towbar is used, the State of Illinois requires a towing permit and payment of a fee, which shall be paid by the receiving user.

2. Liability insurance protecting the user and FVEAA. Generally, most standard automobile policies provide coverage when the policyholder informs his auto insurance company that he is using an additional vehicle. Any extra insurance premium to cover the FVEAA car use is the responsibility of the user. The user shall verify coverage before accepting the FVEAA car.

3. General care of the car, in accordance with the FVEAA Owner's Manual which is included in the car.

4. Repair of damages which occur during use, excluding propulsion system electrical malfunctions.

William H. Shafer

There's a new model car on the market that won't solve the safety problem, but may save the owner money. It's painted red on one side and yellow on the other. If you have an accident all the witnesses contradict each other.

Battery 'runs' a van 200 miles

Argonne National Laboratory has invented a battery that could run an electric-powered van for a record 200 miles before requiring recharging. In tests controlled by computer, Argonne simulated 200 miles of stop-and-go driving in a GM Griffon van with a 900-pound load including the driver. "This range exceeds our program goals by 100 miles and is three times as far as the best that could be achieved with a conventional lead-acid battery of the same weight," said Al Chilenskaskas, manager of Argonne's battery program. Market studies have shown that a battery that could provide a 100-mile range would create a demand for 3 million or 4 million electric vans in the United States. The lithium-iron-sulfide battery was built by Gould Inc. of suburban Rolling Meadows.

MULTIPLE BATTERY SERIES CHARGER

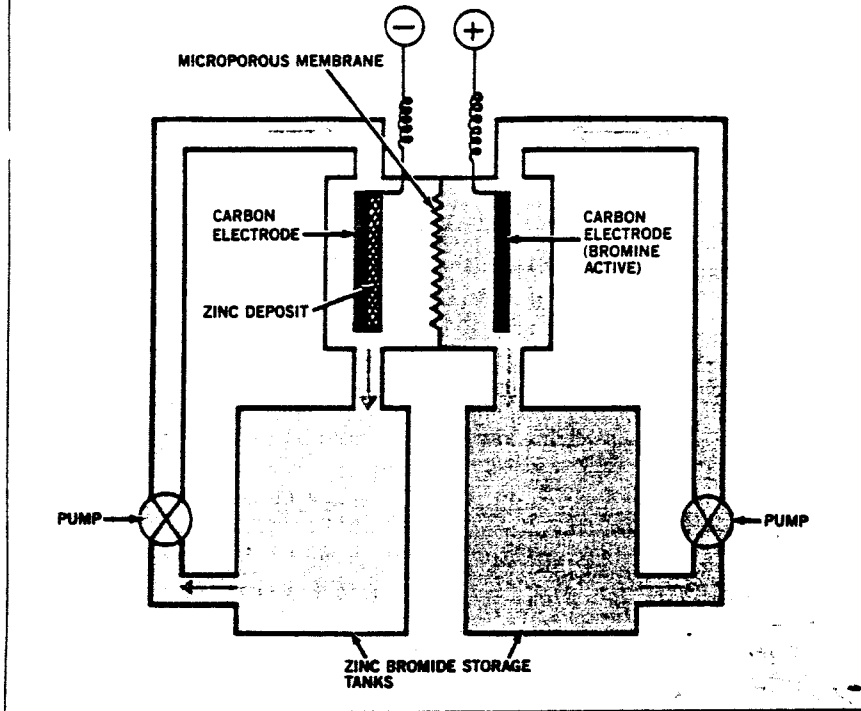


Peter Solle, President of Mini Tune, Inc., is proud to announce the release of the new 1001 Sure Start Multiple Battery Series Charger.

This new 1001 Battery Charger is designed for Battery Shops, Fleets, Service Stations, Jobbers, Chain Stores, New Car Dealers, R.V., Marines, Motorcycle and Golf Cart Applications.

The outstanding feature of the Sure Start Battery, is its capacity of charging six twelve volt batteries or twelve, six volt batteries, or any combination up to 94 volts with an output rate of one to six amps.

For more information contact: Mini Tune, Inc., 1311, Commerce St., Petaluma, CA 94952, (707) 763-7460, TWX 510-746-6299.



PERTH, AUSTRALIA "It doesn't look a bit like a battery," says Professor Ian Ritchie, showing me two gallon-size cylindrical tanks topped by an upended box in his laboratory. This strange rig is a new type of high-energy zinc-bromine battery being researched here at Murdoch University in Western Australia, and sponsored by Exxon Research and Engineering Co. and Energy Research Corp.

"It's a breakthrough in electrochemistry," claims Ritchie. "For a given output, this battery has twice the energy density of the usual lead-acid type, is far lighter, and uses cheap abundant materials. Most important, it has a virtually unlimited charge-discharge cycle life, so a battery could last almost indefinitely." Researchers hope the battery will evolve into tennis-court-size systems. These could save millions of dollars in power-station construction by storing energy from present plants during off-peak hours. The batteries could also store energy from wind and solar plants.

In conventional lead-acid batteries, Ritchie explains, energy is stored in the electrode plates. Chemical reactions slowly degrade the metallic plates until they fail, and the entire

battery is usually junked. But with the zinc-bromine battery, energy is stored in the electrolyte fluid, which, like water in lead-acid batteries, carries electric current between the plates.

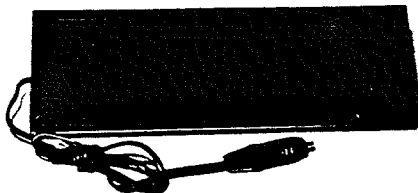
Both plates in Ritchie's experimental battery are carbon and serve as a source of electrons. The plates are chemically inert and won't fail because of deterioration. A cell (see diagram) is split into two sections by a plastic membrane. A zinc bromide solution is pumped into both sections from separate storage tanks.

During charging, zinc ions are drawn from one solution and deposited on the negative plate as zinc metal. On the positive side, bromide ions are converted to bromine. One solution is deficient in zinc ions, and the other is deficient in bromide ions but rich in bromine. The porous separator membrane permits current flow between the plates.

The electrochemical process is reversed as current is drawn from a battery. Each square foot of 1.8-volt cell area delivers some 30 amperes. Fresh solution is pumped continuously from the supply tanks, whose size determines the energy capacity of a battery system.—David Scott

SOLAR BATTERY CHARGER

THE MAINTAINER™ uses the newest in solar electric technology to keep your car, RV, boat or plane battery fully charged—even if you leave it sitting for days, weeks or months. Never spend another penny on electricity or worry about a dead battery again! Just plug



THE MAINTAINER into the cigarette lighter socket, and let the solar panel collect sunlight and convert it to electricity to maintain your battery's charge. THE MAINTAINER is the ultimate answer to those cold morning dead battery blues.

For more information contact: Susan Bryer, Solar Electric Engineering, 405 East D Street, Petaluma, CA 94952, (707) 765-1986.

Solar man wants world to see the light on power

CHICAGO SUN-TIMES

By Jim Ritter

William Becker hasn't ridden his solar-power bicycle since last fall.

He's been too busy working in his solar greenhouse, or soaking in his solar-power hot tub or helping his college students design gizmos that run on solar batteries.

Becker's title at the University of Illinois at Chicago is industrial designer. But perhaps a better job description is high-tech sun worshipper.

"Solar is the technology of the future," Becker says. "The tools and technology we're looking at already are the leading edge of the space program."

But here on Earth, with its dark nights, cloudy days and megawatt power plants, solar power has been slow to catch on.

"We'll have to have two or three more Chernobyls before solar technology is seriously considered by the power brokers of this country," Becker says.

In the meantime, Becker will keep dreaming up new ways to put sunlight to work, such as his solar bicycle.

Becker rigged up a canopy that shades the rider and powers the bike at the same time. The canopy has a panel of photovoltaic cells that convert sunlight to electricity. The electricity recharges two 12-volt batteries for a 1½-horsepower motor that powers the bike. It takes about a day in the sun to charge the batteries, which are good for more than 100 miles.

Becker hasn't tried marketing his solar bike yet. He says he's better at inventing products than selling them. His solar cooker, for example, was a flop. Few people were willing to pay \$75.

The cooker looks like a miniature bean-bag chair with a pot in the middle. A funnel-shaped solar collector concentrates sunlight into the pot. The cook occasionally must rotate the funnel a bit so that it always points directly at the sun. The pot reaches 350 degrees outside and 250 degrees indoors.



SUN-TIMES/ Jack Lenahan

Sun worshipper William Becker shows off his solar-power bicycle, one of his many inventions.

Becker's wife still uses the solar cooker twice a week at their Park Forest home. His two children recharge toy batteries in a solar-power battery charger. The family hot tub is heated by solar roof panels and the rest of the house is partially heated by excess hot air from the attached two-story greenhouse.

But that's not enough. Becker plans to install panels of photovoltaic cells to cut electric bills. He figures the \$600 project will pay for itself in 10 years.

PV cells used to convert less than 12 percent of the sun's energy into electricity. Now they convert 15 percent, and the Japanese are shooting for 20 percent, Becker said.

PV cells are especially handy in areas remote from utility lines. For example, they could provide electricity to heat shelters that researchers build to study bats. Solar-powered weather stations also are possible.

But one of Becker's favorite ideas is a solar-power radiation monitor for a nuclear power plant. In case of an accident, when monitors are most needed, they would work if the electricity goes out.

Becker would like to junk utilities altogether.

"A large centralized utility system is incompatible with democracy," he says. "If the nation becomes dependent on a small power elite, the democratic process can be suspended."

* * *

Seatbelt usage may be as important to back-seat passengers as it is to drivers and front-seat passengers, according to accident data from the United Kingdom. In 1984 fatal and serious injuries to rear-seat riders rose seven percent, while similar injuries to front-seat occupants fell by 19 percent. These figures are compared with those from 1982, the last full year that British motorists weren't required to wear seatbelts.

A businessman told his son, "Ethics are essential to success. For example, an old customer paid his account today with a \$100 bill. After he left the shop, I discovered he had given me two \$100 bills stuck together. Immediately a question of ethics arose: Should I tell my partner?"

1987 FVEAA MEMBERSHIP AND OTHERS INTERESTED IN EV'S

PHONE #	Y/N ?	MEMBER	ADDRESS	CITY	ST	ZIP
312 668-1426	Y	JOHN AHERN	624 PERSHING AVE.	WHEATON	IL	60187
504 737-2391	N	ROBERT BARREN	125 MIDWAY DR.	RIVER RIDGE	LA	70123
XXX XX-XXXX	N	WILLIAM BECKER	105 WOLPERS RD	PARK FOREST	IL	60466
312 XX-XXXX	N	FRANK BORG	P.O. BOX 477	ELMHURST	IL	60126
312 968-7052	Y	ALFRED BRINKMEYER	4323 DEVON ST.	LISLE	IL	60532
312 629-3989	Y	JACK CAHILL	1 S 736 VISTA AVE.	LOMBARD	IL	60148
312 859-2578	Y	RICK CARTWRIGHT	347 WOODLAWN	AURORA	IL	60506
312 448-7676	Y	THOMAS CHEEVER	12319 S. 90TH AVE.	PALOS PARK	IL	60464
312 969-4780	N	ANDY CHERNIVSKY	106 56TH CT.	DOWNERS GROVE	IL	60516
312 553-9543	N	DON CONGDON	701 STATE ST.	YORKVILLE	IL	60560
312 228-5952	Y	DALE COREL	595 GATES HEAD NORTH.	ELKGROVE VIL.	IL	60007
312 968-5426	N	DAVID COSGROVE	637 MAYWOOD LANE	LISLE	IL	60532
312 898-9449	N	DAVID CRAIG	RT. 2 BOX 128	AURORA	IL	60504
312 544-6312	Y	FRANK DELMONICO	5629 BOHLANDER AVE.	BERKELEY	IL	60163
312 832-1675	Y	DONALD DRAKE	445 RIVERSIDE DR.	VILLA PARK	IL	60181
312 251-8439	N	DICK DUNBAR	1819 WILMETTE AVE.	WILMETTE	IL	60091
312 968-2692	Y	JOHN EMDE	6542 FAIRMOUNT AVE.	DOWNERS GROVE	IL	60516
904 384-7945	N	CHARLES FETZER	2810 ALGONQUIN AVE.	JACKSONVILLE	FL	32210
614 764-9733	Y	LEONARD FISHER	6351 AMSTON DR.	DUBLIN	OH	43017
301 992-0621	Y	WM. T. FORDE	9257 GRAPEWINE CT.	COLUMBIA	MD	21045
312 841-0180	Y	JOHN FOSTER	14318 UNIVERSITY AVE.	DOLTON	IL	60419
312 963-0901	N	JAMES FRITZ	1621 W. OGDEN AVE	LISLE	IL	60532
312 968-2486	Y	ALEXANDER GLOWIAK	101 RUMSEY RD.	WESTMONT	IL	60559
312 877-7290	Y	HENDLY HALL	530 LAWN DRIVE	LOVES PARK	IL	61111
312 232-0344	Y	EVERETT HARRIS	214 NEBRASKA ST	GENEVA	IL	60134
312 674-6632	Y	PAUL HARRIS	9421 N. KILDARE	SKOKIE	IL	60076
312 XX-XXXX	Y	RALPH JOHNSON	P.O. BOX 232	RIVERSIDE	IL	60546
312 282-4828	Y	THOMAS KAMINSKI	4828 W. WARWICK	CHICAGO	IL	60641
312 381-5612	N	HARRY KAMPERT	326 W. LAKE ST.	BARRINGTON	IL	60010
312 530-1736	N	ROBERT KAPHEIM	253 GRACE ST.	ELMHURST	IL	60126
312 834-0370	Y	GEORGE KRAJNOVICH	17W381 EISENHOWER RD.	OAKBROOK TER.	IL	60181
312 437-0453	Y	DONALD KUBICK	249 ARLINGTON HTS RD.	ELKGROVE VIL.	IL	60007
312 850-7246	Y	LAD KUCERA	8 ARTHUR AVE.	CLARENDON HIL	IL	60514
312 469-8121	N	ROBERT KYP	526 GENEVA RD.	GLEN ELLYN	IL	60137
312 668-3269	N	DAVID LAMBERT	1713 CHILDS ST.	WHEATON	IL	60187
312 749-9733	Y	RICK LEWANDOWSKI	1361 WESTCHESTER	GLENDALE HTS.	IL	60139
312 983-8236	Y	MARK MELNICOFF	65 FINCH CT.	NAPERVILLE	IL	60565
312 742-2052	Y	CHARLES MILLER	156 S. WESTON	ELGIN	IL	60120
312 299-3497	Y	JERRY MITCHELL	4517 LILAC	GLENVIEW	IL	60025
312 759-8033	Y	DANA MOCK	154 DENVER DR	BOLINGBROOK	IL	60439
312 584-6057	Y	KENNETH MYERS	1303 INDIANA	ST. CHARLES	IL	60174
312 889-7757	Y	RICHARD NESS	2129 N. NARRAGANSETT	CHICAGO	IL	60639
XXX XX-XXXX	N	JOHN NEWELL	1249 LANE ST.	BELMONT	CA	94002
312 469-3434	Y	JOHN NEWTON	22 W 450 AHLSTRAND DR.	GLEN ELLYN	IL	60137
312 969-1176	Y	BILL PALMER	5237 FAIRMOUNT AVE.	DOWNERS GROVE	IL	60516
414 481-9655	N	DAVID PAREZ	3251 W. ILLINOIS ST.	MILWAUKEE	WI	53207
219 874-3171	Y	HAROLD PASCHACK	1400 ELSTON ST.	MICHIGAN CITY	IN	46360
312 896-7849	N	JACK S. PIELET	370 COBBLESTONE DR.	AURORA	IL	60504
312 255-1665	Y	FRANK PIETROLONARDO	1122 E. THOMAS ST.	ARLINGTON HTS	IL	60004
312 231-8160	Y	JOSEPH POLLARO	29 W. CHILDS ST.	WEST CHICAGO	IL	60185
312 XX-XXXX	Y	BOB RANDERSON	25 S. SPRING	LAGRANGE	IL	60525
XXX XX-XXXX	N	ROBERT REEK	P.O. BOX 511	PRESCOTT	AZ	86302
312 369-3087	N	MIKE ROWLAND	1343 LEVERNZ RD	NAPERVILLE	IL	60565
312 743-1846	N	JOSEPH SELIBER	7437 N. WASHTENAW	CHICAGO	IL	60645
312 383-0186	Y	WILLIAM SHAFER	308 S. EAST AVE.	OAK PARK	IL	60302
216 531-0550	N	ROBERT SHELKO	19128 NOTTINGHAM RD.	CLEVELAND	OH	44110
312 879-0207	Y	JOHN STOCKBERGER	25643 NELSON LAKE RD.	BATAVIA	IL	60510
312 562-5403	N	LES STONE	1214 HAASE	WESTCHESTER	IL	60153
312 589-9360	N	ROGER SUTFIN	3914 N. PLAINFIELD	CHICAGO	IL	60634
312 349-8816	Y	CARL SWICK	7550 WILDWOOD CT	ORLAND PARK	IL	60462
312 971-2325	N	GARRETT SWIERENGA	322 N. CASS AVE.	WESTMONT	IL	60559
312 246-3046	Y	VLADIMIR VANA	5558 FRANKLIN	LAGRANGE	IL	60525
312 668-5909	Y	HORACE WETHERBE	918 HOWARD ST	WHEATON	IL	60187
XXX XX-XXXX	N	R.N. WHEELER	619 FLYNN AVE.	REDWOOD CITY	CA	94063
312 584-8364	N	ANDREW WOHLERT	219 S. 6TH ST	ST. CHARLES	IL	60174
312 420-1118	Y	KENNETH WOODS	1264 HARVEST CT.	NAPERVILLE	IL	60565
312 682-1214	Y	GEORGE ZARINS	1454 W. GLENHILL DR.	GLENDALE HTS	IL	60137

HAMFESTS 1987

Mar. 21 Sat. 8:00 a.m. \$3.00
Marshall High School I-94 to
exit 110 Marshall, Michigan

Mar. 29 Sun. 8:00 a.m. \$3.00
Lake County Fairgrounds Rt.
45 & 120 Grayslake, Ill.

Apr. 5 Sun. 8:00 a.m. \$3.00
Dane County Expo Ctr. I-90 &
Hwy. 12-18 west Madison Wisc

May 2 Sat. 8:00 a.m. \$3.00
Circle B Rec Center Hwy. 60
& County I Cedarburg, Wisc.

May 17 Sun. 8:00 a.m. \$3.00
Kankakee County Fairgrounds
Rt. 45 south Kankakee, Ill.

June 14 Sun. 6:00 a.m. \$4.00
Santa Fe Park 91st & Wolf
Rd. Willow Springs, Illinois

Aug. 9 Sun. 6:00 a.m. \$4.00
Santa Fe Park 91st & Wolf
Rd. Willow Springs, Illinois

Aug. 23 Sun. Commodore Fest
Kane County Fairgrounds, Ill

Sept 13 Sun. 6:00 a.m. \$3.00
Santa Fe Park 91st & Wolf
Rd. Willow Springs, Illinois

Sept 19 & 20 Two days \$4.00
Expo Gardens W. Northmoor rd
off 6300 block Peoria, Ill.

Oct. 25 Sun. 8:00 a.m. \$3.00
Waukesha Expo Ctr. Hwys. J &
FT off I-94 Waukesha Wisc.

Oct. 31 & Nov. 1st Two days
Norris Sports Ctr. Rt. 64 &
Dunham Rd. St. Charles, Ill.

FVEAA CLUB ITEMS FOR SALE

QTY	DESCRIPTION OF ITEM	PRICE EACH
456	SOLID BRASS BATTERY CONNECTORS 00 & 000 POS. OR NEG.	.75
18	STEEL LAMINATED CHOKE CORE FOR SHUNT MOTORS	5.00
10'	HEAT SHRINK TUBING 3/4" SHRINKS TO APPROX 1/2" PER FOOT	50
2	200 AMP RELAY 24-28 VOLT COIL	15.00
6	400 AMP RELAY 12 VOLT COIL	45.00
1	2/0 BATTERY CABLE 5'	4.00
1	6 VOLT BATTERY WET 7" X 16"	5.00
1	6 VOLT BATTERY WET (NEW) 7" X 12"	10.00
3	25 AMP CONTACTOR	3.00
1	400 AMP 28 VOLT CONTACTOR	10.00
1	200 AMP CONTACTOR	5.00
2	200 AMP 28 VOLT CONTACTOR	5.00
1	3AG CHASSIS MOUNT FUSE HOLDER	50
2	IN-LINE 40 AMP FUSE HOLDER	1.00
2	IN-LINE 20 AMP FUSE HOLDER	50
1	MJ10021 MOTOROLA TRANSISTOR	1.00
1	2N3791 TRANSISTOR	1.00
1	MR862(7620) MOTOROLA DIODE	1.00
1	1N3934B DIODE	1.00
1	Y10 OR 80063-SM-A-749148 DIODE	5.00
2	JOY MFG MOD. AV-3.5-2.75-1200 28 VOLT 60 CFM BLOWER	5.00
6	HEINEMAN CB279 28 VOLT TOGGLE RESET 3HP	1.00
3	CONVENTIONAL SIZE BATTERY HYDRACAP	3.00
2	LARGE (ABOUT 5000 WATTS) RESISTORS	15.00
2	0/0 BATTERY CABLE W/TERMINALS	1.00
2	2/0 BATTERY CABLE W/TERMINALS 12'	10.00
1	30 VOLT SERIES GE 400 AMP 3-8000 RPM MOTOR	150.00
12'	#12 STRANDED WIRE	2.00
2	1/0 BATTERY CABLE W/TERMINALS 2'9"	3.00
1	1/0 BATTERY CABLE W/TERMINALS 3'6"	3.50
1	1/0 BATTERY CABLE W/TERMINALS 4'	4.00
1	1/0 BATTERY CABLE W/TERMINALS 5'	5.00
1	1/0 BATTERY CABLE W/TERMINALS 6'	6.00
1	30 VOLT COMPOUND GE 2CM77 400 AMP MOTOR	150.00
1	VOLTMETER WESTON DC MODEL 622	20.00
1	VOLTMETER WESTON DC.	25.00
1	FAN ROTON 115V MODEL BT2A-1 BISCUIT	5.00
1	DEMONSTRATOR MOTOR & CONTROLLER W/METERS & FOOT PEDAL	.00
1	COMPUTER POWER SUPPLY 5A. W/MANY VOLTAGES	10.00
100'	TUBING FLEXITE	5.00
1	MOTOR G23 JACK & HEINTZ 400A (FOR PARTS ONLY)	.00
9	RELAY 12V. 3PDT 3A. P&B KNP14021	1.00
5	SOCKETS FOR ABOVE RELAYS	1.00

Above items are available from Dana Mock 759-8033

WANTED WANTED WANTED WANTED

ELECTRONIC CONTROLLER
48 to 72 Volt
400 Amp
New or Used - Working cond.
Reasonable

Call - Paul Harris 674-6632
9421 N. Kildare
Skokie, IL 60076

One winter morning, the farmer heard his wife trying unsuccessfully to start her car. He went outside and asked, "Did you try choking it?" "No," she replied, gritting her teeth, "but I sure felt like it."