

EAA NEWS

Vol XIV No 12

Walter V. Laski, Editor

December 1982

Speeding "epidemic" slows down the advance of electrics.

About 67.3% of California's motorists exceed the national 55 mph speed limit which may cost the state 11 Million Dollars in federal highway funds. Under the 1978 legislation states must have certain percentage of motorists complying with the limit or face the loss of aid by the federal government. California is the leader among the seven southwestern and western states that face the loss of highway aid because too many motorists exceed the national 55 mph limit. The other states are Texas, New Mexico, Montana, Wyoming, Arizona and Nevada.

Speeding is the "epidemic" says the commissioner of traffic in San Jose, and in order to eliminate it he plans to install pavement "undulators" - four-inch high risers which are twelve feet long and as wide as the street - placed every 300 to 500 feet in problem speeding areas. They are in use in the United States in a four-city, federally funded experiment. The undulators, which cost \$1,800 each in Brea, Orange County, caused a significant reduction in overall speed patterns, according to Brea traffic commissioner.

"How fast will it go" - is always the first question we hear at the exhibit of our electrics to the public; it seems that high speed is the all important thing to all drivers, regardless of the fact that all fatal collisions are caused by the drivers traveling at extremely high speeds, killing over 50,000 and maiming over two million humans annually.

EV Publicity - we must provide the right kind ourselves.

More and more the news media and the magazines are providing articles on the Electric Vehicles and the industry. These articles, however, are mostly negative and even derogative; mostly they give many reasons not to buy EVs when they hit the market. They extoll the ICE cars for superior performance and range and relegate the EVs to delivery routes and second-car status.

This is where we come in - the EAA membership; now is the time for us to get in the public eye all over the country by providing proper articles on EVs for the newspapers and magazines - by arranging EV Exhibits more often and providing printed propaganda on EVs for the public and getting in on Radio and TV Talks simply by requesting free time on talk programs. The main issue in this publicity drive will be proper presentation of the EV situation now and in the near future.

Electric Auto Association
1674 Merrill Drive No. 12
San Jose, CA 95124

NON-PROFIT
ORGANIZATION
U.S. POSTAGE
PAID
SAN JOSE, CALIF.
PERMIT NO. 3021

ELECTRIC CAR SUPPLIES, PARTS, ETC.

ELECTRIC VEHICLES INC., and AA ELECTRACAR are Northern California EV Dealerships located at 2170 Old Middlefield Way in Mountain View. They offer full line of new U.S. factory-built EVs from \$9,995 and up. They have clean, used EVs from \$4,000 up. For hobbyists they have complete, fully operational Electric Engine™ units for one-day Conversions at \$2,200 with discount to EAA Members. They also sell separate components, such as Prestolite Motors at \$775 - Transistor Speed Controllers at \$650 - Transmission and Shaft Adapters at \$250 - and Batteries from \$65 to \$99. For information call EVI (415) 964-3974 or AAE (415) 968-5329.

Valley Technical Services is the certified Flight Systems EV Service facility on the West Coast. We offer quality EV components, plans and service at a competitive price. Call Order Desk 1-800-227-3800, ext. 211. In California: 1-800-792-0990. VTS, 1816 25th Ave NE, Puyallup, WA 98371. Local messages: 382-6629.

HUNTLEY ELECTRIC AUTO - offers Baldor Compound Motors at \$674.49. Also complete systems from \$2,685. Write for price list: Charles Huntley, 286 Eureka Street, San Francisco, CA 94114.

SES - Siskiyou Energy Systems offers the SES EV Control System as advertised in Electric Vehicle News (February '82 issue). This is an inexpensive and complete Control System which is ideal for the EV hobbyist. For details call Ric Barline (408) 356-0289.

Custom Motor-mount Adapters with motor shaft-to-wheel couplers for most cars and motors made to order. For description write or call Bill Palmer, 44 Dior Terrace, Los Altos, CA 94022. Phone (415) 948-7677.

FOR SALE

Flight Systems Catalog-\$3.00
EV Conversion Plans for VWs,
Pinto,Chevette,Hybrids-\$17.50
VTS,1816 25th Avenue NE
Puyallup, WA 98371

'73 Superbeetle-GE 400 Amp
Generator-Ready for Assy.
\$1,000 (213)478-1605 eves.

Urba Town Car Plans
Baldor Mtr. w/bottom mount
(2)Adaptor Plates for VW
Call Jeff (408) 624-1861

Willey #8 Controller Kit
All Parts New - \$395
2CM-76 New Surplus - \$200
New Cast Adapter Plate-\$195
(2) Lester-matic Chargers
36V-25A w/timers,meters,etc.
\$75/ea. Call John Eberle
(916) 756-5311 eves.

FOR SALE

Overhauled & FAA Tagged
J&H R-1 300-400 Amp.
Generator-Like new-\$350
Call (602) 849-1872 eves.

'79 Commuta Car-3500 miles
Asking \$3,000-Ivan Marts
(415) 752-0880

'79 Commuta Van-3800 miles
60V new 220 Amp. Batteries
Nice condition-\$3,500
Call Frank (501)374-6488

Lester Dual 84/12V Charger
- \$295. H.Wheelwright,
4036 N.900,0gden, UT 84404
Call (801) 782-5792 eves.

VW Dune Buggy-Second Place
in Rally-\$4,000.
(415) 431-8179 after 6 p.m.

FOR SALE

12/72V Lester Charger-\$400
(2) 2CM76 Generators-\$250/ea
J.Allison, 1313 Lencoe Drive
Stockton, CA 95210
(209) 952-7370

VW with Viking Kit with
Prestolite Motor-\$5,000
Call Scott (408) 266-2397
'67 Sunbeam Alpine + 2CM76
Spare Motor-400A Speed Contrl.
\$1,200/offer - L. Forman
(408) 274-7775

'73 Datsun Pickup EV - 72V
Baldor Motor-PMC Controls
\$3,000-Call (916)549-3832

Baldor 72V DC Motor, Brazed
Armature, Excellent condition
\$500/best offer-Call collect
Bill Borden (916)428-6987

ATTENTION ALL ADVERTISERS! Beginning January '82 all advertising in the EAA NEWS must be prepaid as follows: 3-4 line AD under ELECTRIC CARS, PARTS, ETC. will be \$10 per month, 3-4 line AD under FOR SALE will be \$5 per month, and 3-4 line AD under NEW MANUALS will be \$10 per month. Mail check to EAA NEWS, 1674 Merrill Dr. #12, San Jose, CA 95124.

MANUALS ON EVs

"Guide to Electric Auto Conversion" - Fourth Edition just published! A clearly written 76-page Conversion Manual with an emphasis on practical techniques, using latest technology. Plans include several PROVEN Diagrams and Schematics, as well as a comprehensive Parts Procurement Directory. Separate Chapters thoroughly cover Expected Conversion Cost/Performance, Electric Motors, Adaptor Plates, Controllers, Batteries, Chargers, Maintenance, System Test/Integration Safety and Wiring Capacity. A real bargain for only \$19.95 from Bill Williams, Dept. EAAN, Box 1548, Cupertino, CA 95015.

"Electric Auto Manual" - New, Enlarged Edition by Walter V. Laski, containing Basic Instructions on Conversion Methods of various autos including Hybrids, Three-wheelers and Two-wheelers also. The Manual is now available at a reduced rate of \$6.00 from Walter Laski, 1674 Merrill Drive #12, San Jose, CA 95124.

Research on Fuel Cells Continues at Los Alamos Lab.

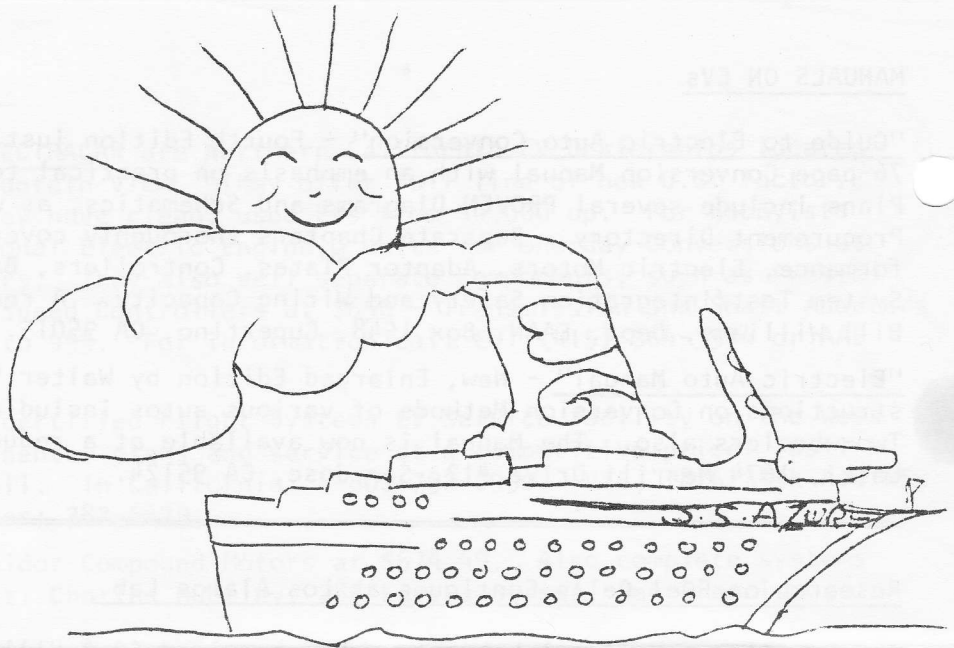
The Los Alamos National Laboratory has received \$2.2 Million from DOE to continue research on fuel cells to power EVs. The Laboratory has successfully operated a fuel cell-powered golf cart and has studied the economic feasibility of operating autos, buses, and delivery vans. New research will center on gathering operating data on a state-of-the-art fuel cell and on fundamental investigations for second generation fuel cells. There is a need to reduce the cost and realize the high efficiency of fuel cells as power sources for vehicular application. The \$2.2 Million is provided by two offices of DOE's Conservation and Renewable Energy Program: Vehicle and Energy R&D and Energy Systems Research.

The major advantage of fuel cell power plants is their ability to burn hydrogen-enriched fuel available from several sources, with very high efficiency and the production of little or no pollution. Fuel cells make little noise and have no moving parts to threaten reliability. In fuel cell operation, the energy of a chemical reaction is converted directly into electricity. At Los Alamos, researchers are working with hydrogen-rich fuel produced by changing a liquid - methyl alcohol - that is obtained from natural gas into a gas whose main components are hydrogen and carbon dioxide. About 80% of the hydrogen is burned in the phosphoric-acid fuel cell and the rest can be directed back through the system to heat the unit that converts the methyl alcohol to a gaseous form.

Postal Service Buys New Electric Vans.

The U.S. Postal Service has accepted the first fifteen production models of an electric mail delivery van, the beginning of a 375-unit order to be delivered over the next seven months. The first fifteen will be used in the Tampa-St. Petersburg area in Florida, and the USPS has an option on a second lot of 375 more. These new vans, designed and built by Commuter Vehicles, Inc. of Sebring, Florida, are powered entirely by electricity. At current rates, the energy cost is 64¢ per vehicle per day, compared to \$7.50 per van per day for gasoline. The van has a top speed of 50 mph and a maximum range at reduced speed of 70 miles. In postal use, considering a full load and 350 stops, it has a range of 30 miles. It has a 500 pound load capacity and over 40 cubic feet of cargo space, with an expectancy of ten years. If all goes well as anticipated, the savings in operation of 375 vehicles would be around \$800,000 annually, plus eliminating the requirement for nearly 600,000 gallons of gasoline. Not bad!

ELECTRIC
 AUTO
 ASSOCIATION
FUN CRUISE



WE'RE STEAMING AHEAD — ALL ABOARD FOR THE S. S. AZURE SEAS

MARCH 21, 1983

FIVE DAYS

FOUR NIGHTS

LOS ANGELES TO ENSENADA

BAJA

MEXICO

LEAVE L.A. MONDAY

MARCH 21, 1983

RETURN L.A. FRIDAY

MARCH 25, 1983

SPECIAL PRICES FOR THIS CRUISE

BARBAZON DECK	OUTSIDE DOUBLE OCCUPANCY	\$465.00
BARBAZON DECK	INSIDE DOUBLE OCCUPANCY	420.00
<u>DOLPHIN DECK</u>	<u>INSIDE DOUBLE OCCUPANCY</u>	<u>395.00</u>

\$50.00 DEPOSIT PER PERSON TO BE PAID BY DECEMBER 15, 1982 TO HOLD THE ACCOMMODATIONS AT THESE PRICES.

*** COME ON E.A.A. MEMBERS - FAMILY AND FRIENDS - THIS WILL BE A REAL FUN AND LEISURE CRUISE - WITH ELECTRIC CAR TALKS IN BETWEEN

> YOU WON'T BE DISAPPOINTED - WE PROMISE <

FOR MORE INFORMATION CONTACT:

THE BENSENS, 8 SAN JUAN AVENUE, DALY CITY, CA 94015

MAKE CHECK PAYABLE TO:

"E.A.A. SPECIAL CRUISE"