

FIRST JOINT EAA STANFORD MEETING

A national goal-setting meeting of the EAA was hosted by Stanford University on Saturday, January 24. The meeting was conducted by Mike Brown, vice president of the Santa Clara chapter, and was attended by about 45 members from various chapters and interested visitors.

John Reuyl of Stanford and his students gave a report on the progress of their solar/electric car project, and invited assistance from any interested EAA members as technical advisors. Reuyl hopes to have the first car running by the end of March, but he also indicated that the electric vehicle project may become an ongoing program at Stanford. In addition, Stanford University and the EAA are cooperating in submitting a proposal for funding of an electric vehicle project to ETAP.

A rally has been set for Saturday, May 16, at Stanford. This will coincide with the university's centennial celebration, which will draw crowds of 2,000 - 3,000 people for the weekend. This will be a rare opportunity to showcase electric vehicles to the public.

The following goals and objectives were derived from the meeting, as well as suggestions for implementation:

OVERALL GOAL OF THE EAA:

To promote the electric vehicle as a viable means of transportation in today's world.

OBJECTIVES:

1. To act as a clearinghouse of information for the members and other organizations on the developments in electric automobile technology.

This would involve gathering information from members, publications, and establishing an active liaison with organizations such as EPRI. The difficulty here is in collecting the most current information. Then the information would have to be sorted and catalogued by a club library committee, and made available to members. This is a massive but much needed job. Volunteers are needed, even for an hour or two a month, to help this committee, and all members should forward any new technical information they find to the national organization.

Dr. Gary Schweitzer, visiting Stanford on sabbatical from Switzerland, is working on a bibliography of published material on EVs. He invites input from the EAA, and will share his information with the EAA when it is completed.

The EAA would also like to compile a list of members who are available to serve as public speakers to meetings of other organizations, both technical and general public.

2. To encourage experimentation in building of electric automobiles by individuals or groups.

This involves, of course, shared information among members, but also includes member support of other EV projects, such as the Stanford project. In the future, there will be more emphasis on the two Keith Crock Technical Awards: the one awarded annually at the Sunnyvale Rally, and the National Award, for which anyone can submit an application through the mail. Watch the EAA Newsletter for details of when and how to enter.

Also suggested was the formation of a national Tech Panel. These people would be available at Stanford on the 4th Saturday of each month to assist with the Stanford EV project as well as assisting members with technical problems. Questions from members out of the Bay area could be submitted to the panel by mail or phone for research and discussion, and any suggested solutions would be relayed back to the member.

3. To promote and organize public exhibits of such vehicles in order to inform the public on the progress in this area.

This includes, of course, rallies. The upcoming Stanford rally will provide exceptionally good exposure. Also included are shopping center exhibits. The national EAA hopes to develop an updated "how-to" manual for chapters on arranging such displays. One item needed is a list in each chapter of show-quality vehicles that are available for display. Another suggestion was for each chapter to research any history of electric vehicles in that area, and try to interest local museums in adding a display of that local EV history.

4. To publish technical material helpful in construction of electric automobiles.

There is a great deal of interest in more technical publications. The EAA Newsletter welcomes submissions. Contact editor Clarence Ellers for requirements. Members would like to see more "How I Built My Car" articles.

5. To provide purely social events for EAA members.

Since 1987 is the 20th anniversary of the EAA, an anniversary party is being planned for summer in the San Francisco Bay area. Mae Benson and Pat Hardage are organizing it, and are searching for original members who may have lost touch with the organization, but are still in the area.

Other topics mentioned included: serving the needs of non-hobbyists who would like to own and drive an EV, but are not interested in building one; getting the EAA listed on computer bulletin boards to attract new members; and any members who might own stock in auto manufacturing companies can submit proposals to the shareholders that the company research building electric vehicles (one member has submitted such a proposal).

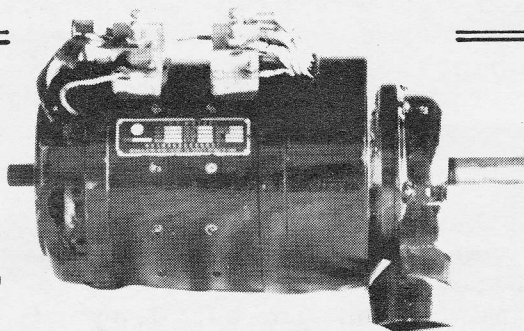
Each member is encouraged to think over these suggestions and ask himself, "What do I want to get out of the EAA?" Then he should ask himself, "What can I do to help the EAA accomplish what I want?" If each member picks an area of interest and volunteers to do ONE THING to further that objective, a great deal can be accomplished. No matter how limited your time or resources, there is ALWAYS ONE THING--one phone call made, one letter written, one article clipped--that you can do.

WHAT YOU GET OUT OF THE EAA WILL DEPEND ON WHAT YOU PUT INTO IT.

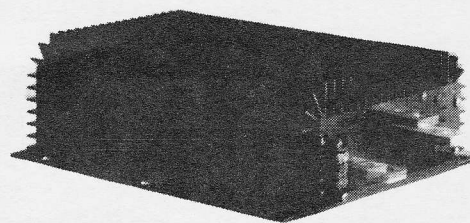
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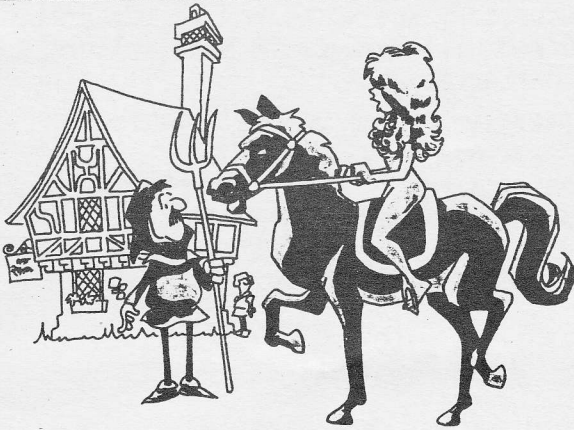


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Dublin, CA 94568
USA Tel: (415) 828-5001
Components

Palmer Industries

P.O. Box 707, Union Station
Endicott, New York 13760
USA Tel: 607-754-1954
Bikes, 2 and/or 3-wheel scooters

Palmer Sales & Service, Inc.

3043 West Colter Street
Phoenix, Arizona 85017
USA Tel: 602-242-0873
Golf Cars

Pandora Electric Cycles

45 Formans Road
Sparkhill, Birmingham
West Midlands B11 4201
ENGLAND Tel: (021) 778-4201
Bikes, 2 and 3-wheel, scooters

Pedalpower

Division of General Engines, Inc.
591 Mantua Boulevard
Sewell, New Jersey 08080
USA Tel: 800-257-7955;
or 609-468-0270
Bikes, 2 and/or 3-wheel, scooters

Penta Engineering Co.

625 W. Covina Boulevard
San Dimas, California 91773
USA Tel: 714-599-6085
Components; Engineering, Research & Consultants

Polaris E-Z-GO

Division of Textron Inc.
P.O. Box 388
Augusta, Georgia 30913
USA Tel: 404-798-4311
Golf Cars

Power Functions Engineering, Inc.

3831 Cavalier Drive
Garland, Texas 75042
USA Tel: 214-278-0996
Components

Prestolite

(see Allied Electric Vehicle Group)

Progetti Gestioni Ecologiche

Via Rosellini 1
20124 Milano
ITALY Tel: 02-6884085
Cars, passenger; Components; Trucks, on-the-road

Propel, Inc.

210 New Market Avenue
South Plainfield, New Jersey 07080
USA Tel: 201-753-2400
Components; Engineering, Research & Consultants; Equipment (test, R&D, etc.); Gauges/Meters

Ragonot

15 Bld Gabriel Peri
Malakoff 92240
FRANCE Tel: 253-53-60
Bikes, 2 and/or 3-wheel, scooters; Cars, passenger; Components

Ransomes Sims & Jefferies Ltd.

Ipswich IP3 90G
ENGLAND
Trucks, burden carriers, in-plant

Reliance Electric

24701 Euclid Avenue
Cleveland, Ohio 44117
USA Tel: 216-266-7000
Components

Rocoboy-Kirchner

L'A.A.R.
149 Rue de Crimée
75019 Paris
FRANCE Tel: 208-90-11
Trucks, on-the-road; Vans, passenger/cargo

Rolls Battery Engineering

8 Proctor Street
Salem, Massachusetts 01970
USA Tel: 617-745-3333
Batteries, traction; Chargers

S.A.F.T.

Societe des Accumulateurs Fixes et de Traction
119 Avenue du President Wilson
Levallois-Perret 92300
FRANCE Tel: 737-41-25
Batteries, traction; Components

S.I.T.A.

7 Rue de Logelbach
75821 Paris, Cedex 17
FRANCE Tel: 227-65-60
Maintenance EVs, industrial/commercial type

Sevcon

Division of Technical Operations, Inc.
Kingsway
Team Valley Trading Estate
Gateshead NE11 0QA
ENGLAND Tel: 0632 8785 16
Components

Sevcon

Division of Technical Operations, Inc.
40 North Avenue
Burlington, Massachusetts 01803
USA Tel: 617-272-2000
Components

Siemens AG

Dep E 41
Werner-von-Siemens-Strabe 50
Erlangen D 8520, Bayern
WEST GERMANY Tel: 09131 7 3480
Components

Simon Battery & Research Corp.

3040 Bigelow Boulevard
Pittsburgh, Pennsylvania 15219
USA Tel: 412-621-1810
Batteries, traction

Smith's Electric Vehicle Limited

Marquissway, Team Valley Trading Estate
Gateshead, Tyne & Wear NE8 1YT
ENGLAND
Tel: Newcastle (0632) 871311
Maintenance EVs, industrial/commercial type; Trucks, burden carriers, in-plant; Trucks, on-the-road

Sociedad Espanola del Acumulador Tudor, S.A.

Gaztambide, 49
Madrid, 15
SPAIN Tel: 449-2909
Batteries, traction; Components

Surrette Storage Battery Co., Inc.

Springhill, N.S.
CANADA Tel: 902-597-3767
Batteries, traction

Surrette Storage Battery Co., Inc.

P.O. Box 3027
Salem, Massachusetts 01970
USA Tel: 617-745-4444
Batteries, traction

Talbot Motor Co. Ltd.

Boscombe Road, Dunstable
Bedfordshire
ENGLAND
Buses, 10 or more passengers; Trucks, on-the-road; Vans, passenger/cargo

Taylor-Dunn

2114 West Ball Road
Anaheim, California 92804
USA Tel: 714-956-4040
Golf Cars; Trucks, burden carriers, in-plant

Texon, Inc.

Canal Street
South Hadley, Massachusetts 01075
USA Tel: 413-536-1610
Battery Separators

Toyo Kogyo Company, Ltd.

3-1 Shinchi, Fuchu-cho
Aki-gun, Hiroshima 730-91
JAPAN Tel: 0822-82-1111
Cars, passenger; Golf Cars; Trucks, burden carriers, in-plant; Trucks, on-the-road

Trojan Battery Company

12380 Clark Street
Santa Fe Springs, California 90670
USA Tel: 800-423-6569; or
213-946-8381
Batteries, traction

Unique Mobility, Inc.

3700 South Jason Street
Englewood, Colorado 80110
USA Tel: 303-761-2137
Cars, passenger; Vans, passenger/cargo

VARTA Batterie AG

Am Leineufer 51, Postfach 210540
D3000 Hannover 21
WEST GERMANY Tel: 0511-79031
Batteries, traction

Viniegra Vehiculos Electricos, S.A.

Av. Sor Juana Ines De La Cruz
331 Tlalnepantla
Edo. De Mexico
MEXICO Tel: 565-4151
Cars, passenger

W.&E. Vehicles

Harlescott
Shrewsbury SY1 3AE
ENGLAND Tel: Shrewsbury 52288
Maintenance EVs, industrial/commercial type; Trucks, burden carriers, in-plant; Trucks, on-the-road

Ward Leonard Electric Co., Inc.

31 South Street
Mount Vernon, New York 10550
USA Tel: 914-664-1000
Components

Westinghouse Electric Corporation

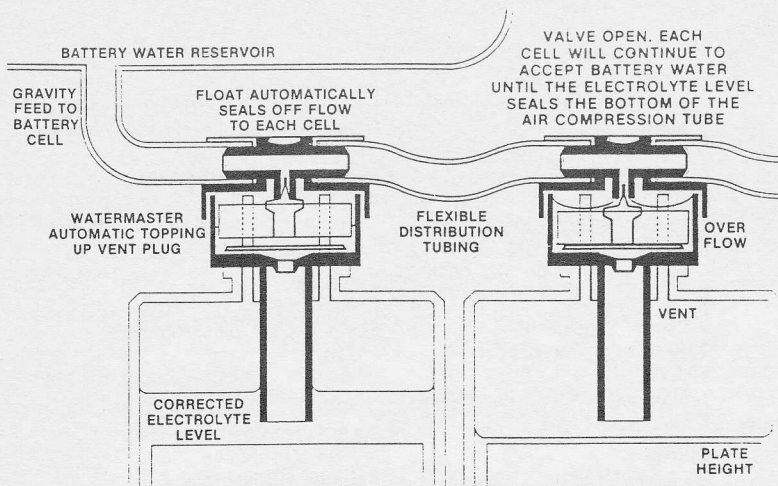
Westinghouse Building, Gateway Center
Pittsburgh, Pennsylvania 15222
USA Tel: 412-255-3800
Components

Whisper Electric Car

208 Skodsborg Strandvej
DK 2942 Skodsborg
DENMARK Tel: 02-804096
Cars, passenger

Victor Wouk Associates

853 Broadway, Rm. 1104
New York, NY 10003
USA Tel: (212) 473-1010
Engineering, Research & Consultants



WATERING BATTERIES IS EASY with the special battery caps shown. They replace the standard caps and have connections for tubing to connect to a water reservoir. There is also a tube which projects down into the battery and controls the level to which the cell is filled. As the acid rises, it builds up pressure in the tube and causes the float in the cap to shut off the water flow. There is an overflow to warn of a malfunctioning cap. The water reservoir should not be connected for more than an hour. SEE Pg. 4

Alphabetical Listing of Related Associations, Clubs, Societies, Etc.

A.V.E.R.E.

(see European Electric Road Vehicle Association)

The breath you save
may be your own

American Gas Association

1515 Wilson Boulevard
Arlington, Virginia 22209
USA Tel: 703-841-8574

American Public Power Association

2301 M Street, N.W.
Washington, D.C. 20037
USA Tel: 202-775-8300

Asociacion para el Desarrollo de Vehiculos Electricos (ADVE)

Edificio Albia 11-7 A c/
San Vincente s/n
Bilbao 1, Vizcaya
SPAIN Tel: 94/4242301

Australian Lead Development Association

95 Collins Street
Melbourne, Victoria 3000
AUSTRALIA

Battery Council International

111 East Wacker Drive
Chicago, Illinois 60601
USA Tel: 312-644-6610

Copper Development Association Inc.

Greenwich Office Park 2, 1840
Greenwich, Connecticut 06836
USA Tel: 203-625-8210

Denver Electric Vehicle Council (DEVC)

2940 13th Street
Boulder, Colorado 80302
USA Tel: 303-442-6566

Eastern Electric Vehicle Club

P.O. Box 717
Valley Forge, Pennsylvania 19482
USA Tel: 215-696-5615

Edison Electric Institute

1111 19th Street N.W.
Washington, D.C. 20036
USA Tel: 202-828-7422

Electric Auto Association

1249 Lane Street
Belmont, California 94002
USA Tel: 415-591-6698

Electric Vehicle Association of Canada

P.O. Box 4044, Station E
Ottawa, Ontario, K1S 5B1
CANADA Tel: 613-236-2497

Electric Vehicle Association of Great Britain Ltd.

13 Golden Square Piccadilly
London W1R 3AG
ENGLAND Tel: 01-734-7873

Electric Vehicle Development Group

59 Colebrooke Row
London N1 8AF
ENGLAND Tel: 01-359-7352

Elfordoncentrum i Trollhattan

S-461 83 Trollhattan
SWEDEN Tel: 0520-3001

European Electric Road Vehicle Association

Place du Trone 1
B-1000 Brussels
BELGIUM Tel: 02/513 91 15

Independent Battery Manufacturers Association, Inc.

100 Larchwood Drive
Largo, Florida 33540
USA Tel: 813-586-1408

FOSSIL FUEL WILL NOT
LAST FOREVER

International Lead Zinc Research Organization, Inc.

292 Madison Avenue
New York, New York 10017
USA Tel: 212-532-2373

Japan Electric Vehicle Association

2-5-5 Toranomon, Minato-ku
Tokyo, 105
JAPAN

Lead Development Association

34 Berkeley Square
London W1X 6AJ
ENGLAND Tel: 01-499 8422

Lead Industries Association, Inc.

292 Madison Avenue
New York, New York 10017
USA Tel: 212-578-4750

The quality of the
air we breath has
deteriorated to a
dangerous state

Motor Vehicle Manufacturers Association of U.S.

320 New Center Building
Detroit, Michigan 48202
USA Tel: 313-872-4311

National Association of Fleet Administrators

295 Madison Avenue
New York, New York 10002
USA Tel: 212-689-3200

Join a group listed
here or start your
OWN 0

National Rural Electrification Cooperative Association

2000 Florida Avenue, N.W.
Washington, D.C. 20009
USA Tel: 202-857-9500

New Zealand Battery Electric Vehicle Club

14 Hospital Road
Kawakawa
NEW ZEALAND
Tel: 482 Kawakawa

Scandinavian Lead Zinc Association

22 Sturegatan
Stockholm
SWEDEN

Society of Automotive Engineers, Inc.

400 Commonwealth Drive
Warrendale, Pennsylvania 15096
USA Tel: 412-776-4841

U.S. Department of Energy Electric and Hybrid Vehicle Systems

Transportation Energy
Conservation
Washington, D.C. 20585
USA Tel: 202-252-8032

Vancouver Electric Vehicle Association

543 Powell St.
Vancouver B.C.
V6A 1G8 CANADA

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++++++
 FOR SALE: White Bradley GT-II. 147 miles, AM/FM Stereo Cassette. 20 HP GE Series Motor, Lester charger, GE SCR Controller, \$3500. Delivery (without batteries) may be arranged for firm sale. Brendan Kirby, Rt. 1 Box 88, Lenoir City, TN 37771. CALL: (615) 986-5744.

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 WANTED: For EVC Model EVC-500-96 Controller, #NE5560N Pulse width modulator-4 star transistors, a schematic, or any other HELP I can get, or someone who can rebuild my controller. Clarence Een, Box 11, Rudyard MT 59540. CALL: (406) 355-4313.

++++++
 FOR SALE: GE 2CM77 (ed. very good motor up to 72 v.) nearly new condition. Also adaptor for this motor to VW bug. Paid \$400+, make an offer! CALL: (415) 591-6698. Daytime.

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 FOR SALE: INVADER FIBERGLASS BODY ELECTRIC CAR, Bright red with gull wing doors. Looks and runs good. Black buckets, 4-speed. CALL: Tim Neal (415) 341-5633, Monday thru Friday, 9 am-5 pm. ASKING \$1500.

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 FOR SALE: Two 2CM77 aircraft motor/generator plus some hardware, ALL for only \$275. CALL: Al Harris (415) 967-6738.

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 FOR SALE: MFG. RIGHTS FOR WORLDS FIRST PRACTICAL ELECTRIC/ICE!! Dual drive automatic hybrid with full time ICE cruise control. Easy to drive, NO!! extra controls. Drives exactly like a VW Rabbit four speed with full time cruise control. For urban driving it's an ideal electric capable of up to 100 miles per day. On the highway it automatically cruises on ICE, can be run as ICE, electric or both at up to 85 MPH, 80 to 100 MPG on cross country trip. 3000 pound operational proto-type available. CALL: Clarence Ellers, (408) 248-2588, P.O. Box 2781 Santa clara, CA 95055.

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 MALIBU, CA 90265 (213-456-6236)

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 Model 9 Production prototype unit. Steel cover. Like new, fully tested. Current limited at 450 amps. SALE PRICE..\$345

F. G. WILLEY 9722 LINDGREN AVE.
 SUN CITY, AZ 85373 (602-972-4838)

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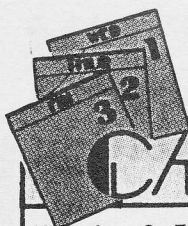
ELECTRONIC TRANSPORTATION DESIGN
 P.O. Box 2781, Santa Clara, CA 95055
 (408) 248-2588

+Proto-Type Design and/or Built Hybrid Spec. PUBLICATIONS

March 28-JOINT EAA/STANFORD MEETING
 (415)322-9991.

March 30-1-LEAD & ZINK IND. ANNUAL

ADS must be received with payment by the 10th of the month, for the following month's issue. AD rate is min. 1 to 5 lines \$5.00, 1/4 Pg. \$15.00, 1/2 Pg. \$25.00, full Pg. \$50.00, full Pg. 2 sides \$100.00. For Sale, Wanted, Trade, etc. Mail to EAA 1249 Lane St. Belmont, CA 94002.



CALENDAR

March 2-5-NATIONAL DESIGN ENG. Show & Conference, McCormick Place, Chicago, IL (203) 964-0000

March 7-PENINSULA CHAPTER, will meet at Sterling Quad, Stanford Univ. First Buildings on right on Santa Teresa St. from Campus Dr. West. Gene Bardon will speak on EV related Inventions CALL: (415) 992-5453.

March 9-11-INTERNATIONAL SEMINAR ON LITHIUM BATTERIES, Deerfield Beach, FL (305) 391-3544.

March 14-EAST BAY CHAPTER, PG&E Service Center 4801 Oakport St. Oakland CALL: (415) 798-0909. Speaker on BART Controllers.

March 15-ELECTRATHON TRIALS, VFL Park, Melbourne, Australia CALL: (03) 570-5261.

March 17-DENVER ELECTRIC VEHICLE COUNCIL, Improving Battery Life by Proper Care & Maintenance, CALL: (303) 442-6566.

March 18-VANCOUVER ELECTRIC VEHICLE ASSOCIATION, 7:30 PROMPT BC TRANSIT Maintenance and Control Center, 6800 14th Ave. Burnaby, B.C.

March 21-SANTA CLARA CHAPTER, 9:30 AM, HP Stevens Ck. Rd. & I-280. Dow Chemical Sodium-Sulphur Battery Speaker, Plus EV Service critique, BRING YOUR PROBLEMS!

March 22-AUSTRALIAN ELECTRIC VEHICLE ASSOCIATION, Street-Beat "SYMPHONY FOR THE MOTOR CAR" Parade of unusual vehicles including EV's CALL: (03)63-9368.

March 22-26-SOLAR ENERGY CONFERENCE ASME, Honolulu, HI CALL: (212) 705-7795.

EAA Chapters

Call the contact person for meeting times and places.

ARIZONA: Phoenix
Roger Smith 602 969-9667
P.O.Box 16800 #273
Mesa, AZ 85202

OREGON: Willamette
Leslie Brundidge 503 - 390-3871
4040 Gary St NE
Salem OR 97303

CALIFORNIA:
Burbank
Irv Weiss 818 - 841-5994
2034 N Brighton #C
Burbank CA 91504

TEXAS: Houston
Ken Bancroft 713 - 729-8668
4301 Kingfisher
Houston TX 77035

East Bay
Scott Cornell 415 - 798-0909
60 Alan Dr
Pleasant Hill CA 94523

WASHINGTON: Seattle
Bryan Lowe 206 - 632-4496
5011 9th NE
Seattle WA 98105

North Bay
Gordon Schaeffer 415 - 456-9653
211 Bellan Blvd
San Rafael CA 94901

WISCONSIN: Milwaukee
Dave Pares 414 - 481-9655
3251 S Illinois
Milwaukee WI 53207

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8 San Juan Ave
Daly City CA 94015

NEW JERSEY: Hackensack
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293 Hudson St
Hackensack NJ 07601

Sacramento
Carl Metcalf 916 - 486-0321
3654 Bausell St
Sacramento CA 95821

Vancouver, BC
Bob Rickey 590-1188
7160 152nd St Surrey

Non-Affiliated Groups

San Jose
Don Gillis 408 - 225-5446
5820 Herma St #3410
San Jose CA 95123

Southern CA EVA
Vic Schisler (714)842-9990
6841 Jardines Dr.
Hunt. Bch. CA 92647

Santa Clara
Lee Hemstreet
787 Florales Dr
Palo Alto CA 94306

Denver, CO DEVC
Genny Clark (303)451-5051
Fox Valley IL
John Stockberger
25643 Meison Lake Rd.
Batavia, IL 60510
Eastern (215)696-5615
PO Box 717
Valley Forge, PA

For information on forming a chapter in your area write Electric Auto Association, 1249 Lane St. Belmont, CA 94002. For a sample copy of the newsletter send SAE #10 envelope.
PHONE (415)591-6698

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**Electric
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MARCH 1987

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