



# MARAC



## THE MOBILE AMATEUR RADIO AWARDS CLUB, INC.

N o.193

June 1, 1986

### MINUTES OF THE MARAC MONTHLY MEETING

The May MARAC meeting was held on May 10, 1986 at the Holiday Inn, East, in St. Paul, Minn. The meeting was called to order by WBØTVL at 9:00 AM. Present were: WBØTVL, WØKMH, W9LHG, NØDRX, WØNNH, WØHKF, NØAKC, WAØLKL, WØOWY and WBØUPU.

The minutes of the April meeting were read. Motion to accept by WØNNH, second by WØKMH, approved.

The Treasurer's report was submitted by W9LHG. After review and discussion, motion to accept by WØNNH, second by WØKMH, approved.

WØOWY reported on behalf of Vern, WAØRJJ, Chairman of the Constitution and Bylaws Revision Committee, that the Committee was still at work and after receiving feed-back from some members in other parts of the country would most likely have additional suggestions for the membership at large. It is planned to possibly mail any additional proposals to all members for their review and consideration.

WBØTVL reported that the awards formerly associated with the CW group have now been incorporated into the general MARAC Awards packet and after a few refinements will be made available to all members.

WBØTVL announced that the Secretary, WBØUPU will once again head the group of members responsible for coordinating the Annual MARAC Report. WBØUPU added that requests for input have already been sent out and the Report will be available to those attending the Convention in Asheville and by mail after that date.

A general discussion was held regarding the Convention in Asheville. The Secretary reminded those present that the Convention would be from July 9. through July 12. Early registration is encouraged so the planners, N4ANV and KC4IF and their committees can project attendance, etc. In addition, members returning their registration by June 15 will be eligible for a new Icom 735 to be awarded in a special drawing.

The next MARAC meeting will be on June 7, 1986 at the Holiday Inn. Note that the July meeting will be held in conjunction with the Convention in Asheville.

There being no further business, the meeting adjourned at 10:30 AM.

*Bill*

Bill Olsen WBØUPU  
Secretary





## FROM THE SECRETARY

Please note the address label on your copy of the Newsletter, If the expiration date is 0686, 0786 or 0886 it is time to renew. As of August 1, 1985, annual dues with the Newsletter mailed 1st class is \$11.00. Annual dues with the Newsletter mailed 3rd class is \$8.00. NOTE that 3rd class mailing is available within the U.S. only. Annual dues with the Newsletter mailed via air mail to all continents other than North America is \$20.00

Make your check or money order payable to MARAC and mail to the Secretary, Bill Olsen, WBØUPU, 2221 Ogden Court, St. Paul, Minnesota 55119

We still have a quantity of new MARAC decals available. If you would like one, simply write the word "decal" on your renewal notice and one will be returned with your receipt and membership card. As usual, a SASE would be appreciated.

## MARAC FINANCIAL REPORT

Checking Acc't Balance as of April 1, 1986	\$ 560.89
Income	1,207.50
Expenses	1,602.90
Checking Acc't Balance as of May 1, 1986	165.49
Savings Acc't Balance as of April 1, 1986	\$3,303.98
Interest Income	18.79
Savings Acc't Balance as of May 1, 1986	\$3,322.77
Year To Date Totals	
Dues Income	\$ 857.00
Newsletter Expense	719.01
Awards Income	342.50
Awards Expense	716.08

John Lyon, W9LHG, Treasurer

## ADDRESS CHANGES, NEW CALLS, CORRECTIONS

R773 AI5P USAE AFCEM Box 41 APO NY 09011 (now LTC Richard Harris)

R1524 NJ7D LORSTA MARCUS FPO Seattle WA 98782-0006

R1894 WAS KA7MPJ NOW KE7PB

R345 K1ZAT P O Box 720 Waldorf, MD 20601

R1607 KC4IF P O Box 16220 Asheville, NC 29806

R1681 KA2PGY 21 Walnut Rd Holliston, MA 01746

\*\*\*\*\*

## NEW MEMBERS

R1908 KD9PH Edward Kloubec 101 S. Elm Ave Northlake, IL 60164 (Cook)

R1909 AL7CV April Delancy P O Box 720 Waldorf, MD 20601 (Charles)

R1910 N5IUS Lee Givens 12913 E. Elliff St Corpus Christi, TX 78410  
(Nueces)

R1911 N5IEC Larry Dick 5456 Buggywhip Dr. Corpus Christi, TX 78415  
(Nueces)

\*\*\*\*\*

## COUNTIES NEEDED TO FINISH USA-CA

KA2CNG AFTER 2100Z an on weekends. 607-797-7891

GA Morgan ID Boise IL Moultrie IN Benton, Switzerland IA  
Monroe, Shelby KS Harper, Lane KY Casey MI Alpena, Otsego,  
Sanilac MT Chouteau ND Rolette OH Tuscarawas TX Bailey, Foard,  
Lee Ward VA Charles City, Warren WV McDowell

## NEW USA-CA HOLDERS

Following are the latest USACA award winners. Congratulations.

#510 W2DWO 4-28-86; #511 N9BDM 5-5-86; #512 KB5FU 5-15-86



Here is "one" answer to last months puzzle. One day a gentleman by the name of Millman came up with an idea that if all you need to know is the voltage common to a group of parallel branches, a little algebra could simplify the task. He took the old standby,  $V=IR$ , and expanded it some, using  $I$  as a total current  $I_t$  and  $R$  as a total resistance  $R_t$ . We know that  $I_t = I_1 + I_2 + I_3 + \dots + I_n$ , and that  $R_t = 1$  divided by  $1/R_1 + 1/R_2 + 1/R_3 + \dots + 1/R_n$ . These are the normal parallel circuit equations. When substituted into  $V=IR$  it takes on the form of  $V_{xy} = V_1/R_1 + V_2/R_2 + V_3/R_3 + \dots + V_n/R_n / 1/R_1 + 1/R_2 + 1/R_3 + \dots + 1/R_n$ . The reason for the  $V/R$  form on top of the fraction bar is because the  $I$  term was not given directly.  $V$  and  $R$  are given, so a substitution was called for and this was from  $I=V/R$ . The formula is now in a form that we can use with the values given, and it is called Millmans' Theorem. Combine the resistors in the first two legs:  $R_1 = 47 + 82 = 129$  ohms, and  $R_2 = 22 + 56 = 78$  ohms. Number the legs or branches 1 through 5 as shown, and name the resistances and voltages accordingly. Sub in the numbers:  $V_{xy} = 90/129 + (-100/78) + 40/91 + 0/10 + 25/63 / 1/129 + 1/78 + 1/91 + 1/10 + 1/63 = .6977 - 1.2821 + .4396 + 0 + .3968 / .0078 + .0128 + .0110 + .1 + .0159$ ,  $V_{xy} = .2520 / .1474 = 1.7093$ .

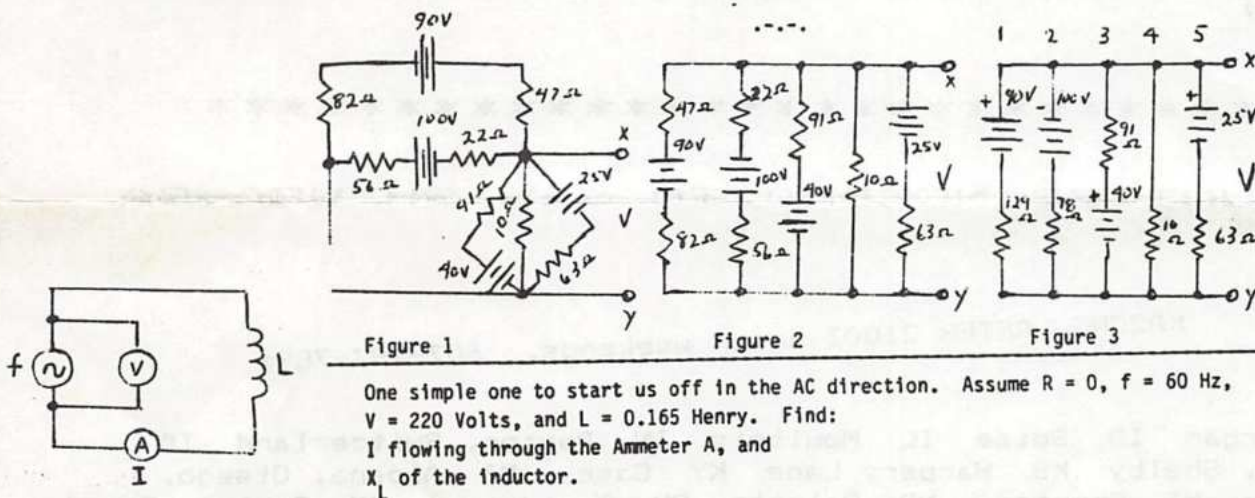


Figure 1

Figure 2

Figure 3

One simple one to start us off in the AC direction. Assume  $R = 0$ ,  $f = 60$  Hz,  $V = 220$  Volts, and  $L = 0.165$  Henry. Find:  $I$  flowing through the Ammeter A, and  $X_L$  of the inductor.

THE  
UNITED STATES OF AMERICA  
COUNTIES RECORD BOOK.



PUBLISHED BY  
MOBILE QSL BUREAU  
P. O. Box 1806  
Des Moines, Iowa 50306  
ALL RIGHTS RESERVED

The Mobile QSL Bureau is pleased to announce a new edition of the County Outline Map Book. The book is easier to read, and is printed on heavier opaque paper. The format has been revised but still contains cross-indexed maps for each of the 50 states, alphabetical listings of all the counties by state, logging space for the USA-CA and other awards. It is three hole punched for insertion into a standard binder.

The book is ready for shipment at a cost of \$10.00 sent UPS. DX stations send \$12.50 in U.S. funds. If you wish a copy or copies, send your request to Mobile QSL Bureau, P. O. Box 1806, Des Moines, Iowa 50306.



## CW COUNTY HUNTERS

### 1986 MARAC County Hunters CW Contest

MARAC invites all amateurs to participate in the 1986 County Hunters CW Contest. All mobile and portable operation from less active counties is welcomed and encouraged.

#### RULES

- 1) Contest Period: 0000Z July 26 to 0200Z July 28, 1986
- 2) General Call: CQ CH
- 3) Exchange: QSO number, Category (Mobiles or Portables only: M or P), RST, County and State (U.S. Stations) others send Province or Country. EXAMPLE: 022M 599 ORANGE CA. Stations may be worked once on each band and again if the the station has changed county. Mobile or portable stations changing counties during the contest may repeat contacts for QSO points. Stations on county lines give and receive only one number QSO, but each county is valid as a multiplier for the receiving station.
- 4) Scoring: QSOs with fixed stations are 1 point, QSOs with mobile or portable stations are 3 points. The Total score is obtained by multiplying the sum of all QSO points by the number of U.S. Counties worked. Independent Cities may be counted as any one of their adjoining counties in accordance with USACA rules. Mobiles and portables who change states during the contest calculate their score for each state separately and again for total score.
- 5) Suggested Frequencies: 3575, 7055, 14065, 21065 and 28065. On 20 and 40M, mobile and portable stations should call CQ or QRZ below the suggested frequencies. Fixed stations will CQ or QRZ above the suggested frequencies.

6) Awards:

Certificates will be awarded in three categories:

F - Highest scoring fixed or fixed portable station in each state, province (Canada) and Country when total score exceeds 1000 points.

P - Highest scoring station in each state operating portable from a county which is not his normal point of operation when total score exceeds 1000 points.

M - Highest scoring station in each state operating mobile from 3 or more counties with a minimum of 10 QSOs in at least each of 3 counties.

Plaques will be awarded to the highest scoring mobile, portable and fixed stations in the U.S. who meet the above requirements for certificates.

Additional awards will be issued where deemed appropriate by the awards committee.

- 7) Submit contest logs showing category, date/time (GMT), station worked, band, exchanges, location, QSO points and Total Score. All entries with 100 or more QSOs MUST INCLUDE AN ALPHABETIZED LIST OF ALL COUNTIES BEING USED AS MULTIPLIERS OR BE DISQUALIFIED FROM RECEIVING AWARDS. Enclose a LARGE S.A.S.E. if contest results are desired. Logs must be postmarked by 1 September 1986 and sent to:

Jerry Burkhead N6QA  
7525 Baltic St.  
San Diego, Ca. 92111



The first weekend of THE GREAT ARMADILLO RUN OF 1986 is history. I don't think it can be described as anything but an overwhelming success! I've heard fixed station QSO totals of 2,000 to over 2,600! There were scores of mobiles on the road and a fair amount of DX activity. Everyone I talked with and heard seemed to be having a great time.

Everyone is anxious to know how we did. The volume of data we will have to analyze to come up with an accurate list of who was in what county is staggering and we would like to make a press release before the end of May with preliminary statistics. To this end we need your help.

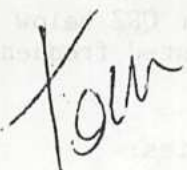
We need a list from each Coordinator of the counties you have verified were on the air in your state or region. We need a short note from each mobile with a list of the counties that you put on. We would like mention in the periodicals requesting data of who was active, particularly from the "rare" counties. We also want to encourage that individuals send in logs for both the Sesquicentennial (Armadillo Run) Contest and for the County Hunters' Contest.

In the meantime, we are reviewing logs from key stations around the country and will have a fairly comprehensive list of active counties within two weeks. If we can assemble the additional data we've requested by 5/23, we will have a 95% accurate number to release by the end of May. At that point we will publish a list of counties that we will have to activate over the CW weekend in July to accomplish our goal of activating all of the counties in 48 hours of operating.

You can call me during the day at 713-484-4440 or evenings at 713-481-3816. Thanks for your support.

73 and DX,

Tom Taormina, K5RC



## COUNTIES TO FINISH A PARTICULAR STATE

WB7PMZ Harley 701-834-2444 (H) 701-834-2493 (W)

CA Calaveras, Contra Costa, El Dorado, Tuolumne CO Conejos, Mesa, San Juan CT Windham FL Clay, Hernando, Wakulla HA Honolulu ME Aroostook, Knox, Sagadahoc MD Montgomery NJ Hudon NM Otero, Quay NY Chenango, Jefferson, Warren OH MOroe, Ottawa, Seneca

\*\*\*\*\*

### DISCLAIMER

\*\*\*\*\*

The following disclaimer is a permanent part of the MARAC Newsletter. "Opinions expressed in articles and letters are those of the author, and may not reflect those of the MARAC Newsletter or those of MARAC, Inc."



## CONVENTION NEWS

\*\*\* THE NORTHWEST MINI \*\*\*

The NW MINI will be held September 6 and 7, 1986, at Marysville, WA. A map is included with this letter. Marysville (W7IEU QTH) is about 40 miles north of Seattle on freeway I-5. The map is pretty much self-explanatory, so read it exactly as it is and don't assume anything.

The first NW mini started as an informal gathering of a dozen Oregon, Washington, Idaho, and California county hunters who had become good friends via the 75-meter night-time county hunters' net. The meeting was at W7SUY (now N7SU) in Nampa, ID. The meals consisted of homemade chili (W7GHT), salads by XYLs and whatever we could scrounge from Bud's refrigerator or the little store down the street. Entertainment was supplied by W7VSE and all of us whose singing voices so markedly improved after about the second beer. And so the NW minis continued for quite a few years until the eventual break-up of the 75-meter net. Great friendships were made from these minis. Now we're going to have another mini to recall old and good times and/or to reinstitute new ones.

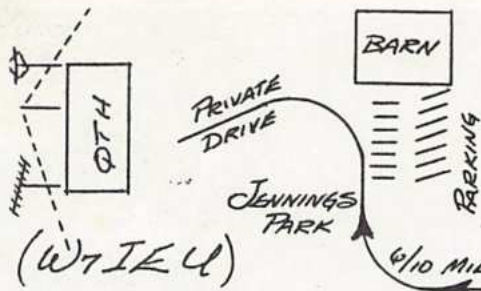
This is by way of saying that our minis are INFORMAL. They are like family gatherings. If you expect to see formality and expensive meeting rooms, you won't find them here. We run a low budget operation. All the people bring food, etc. for the common good, and when we run out, somebody volunteers to go get some more. At the Saturday night meeting at past minis, it became custom to voice our brickbats or kudos for forwarding to MARAC. It also became custom to pass the hat so that the host's expenses would be cancelled.

The setting is a community park with covered cooking and meeting areas and lots of motor home and camper parking. Sorry, but there are no hook-ups. There are motels close by. W7IEU can make reservations for you.

So, if you think you would like to attend the NW mini, let W7IEU know. You can also let WA7PHD and N7FXM know too, but we are not as active on the net as we would like to be.

73,

Jim Sutton WA7PHD & Tess Sutton N7FXM



NORTHWEST  
MINI

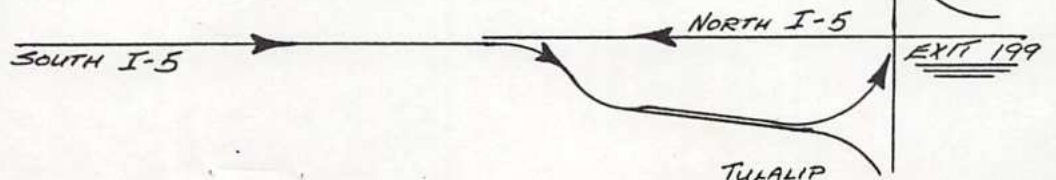
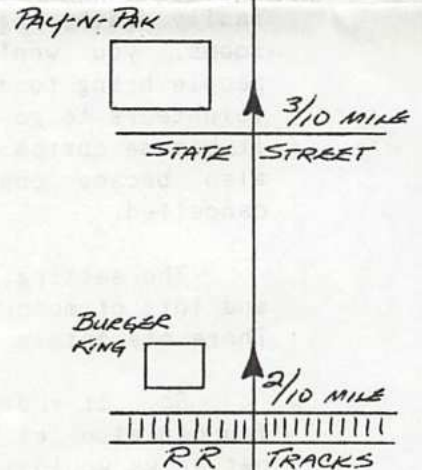
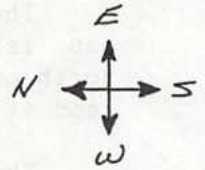
SEPT. 6-7 '86

FREE CAMPING

AT

JENNINGS PARK

TALK IN 146.92  
REPEATER





\*\*\*\*\*  
 27th ANNUAL NEW JERSEY QSO PARTY - AUGUST 16 - 17  
 \*\*\*\*\*

The Englewood Amateur Radio Association, Inc., invites all amateurs the world over to take part in the 26th Annual New Jersey QSO Party.

RULES: [1] The time of the contest is from 2000 UTC Saturday August 16 to 0700 UTC Sunday August 17 and from 1300 UTC Sunday August 17 to 0200 UTC Monday August 18. [2] Phone and CW are considered the same contest. A station may be contacted once on each band - phone and CW are considered separate bands - CW contacts may not be made in phone band segments. New Jersey stations may work other New Jersey stations. [3] General call is "CQ New Jersey" or "CQ NJ". New Jersey stations are requested to identify themselves by signing "DE NJ" on CW and "New Jersey calling" on phone. Suggested frequencies are 1810, 3535, 3900, 7035, 7135, 7235, 14035, 14280, 21100, 21355, 28100, 28610, 50-50.5, and 144-146. Suggest phone activity on the even hours; 15 meters on the odd hours [1500 to 2100 UTC]; 160 meters at 0500 UTC. [4] Exchange consists of QSO Number, RST, and QTH [ARRL Section or country]. New Jersey stations will send county for their QTH. [5] Scoring: Out-of-state stations multiply number of complete contacts with New Jersey stations times the number of New Jersey counties worked [maximum of 21]. New Jersey stations: W-K-VE-VO QSOs count as 1 point; DX stations count as 3 points. Multiply total number of points times the number of ARRL sections [including NNJ and SNJ - maximum of 74]. KP4, KH6, KL7, etc. count as 3 point DX contacts and as well as section multipliers. [6] Certificates will be awarded to the first place station in each New Jersey county, ARRL section, and country. In addition, a second place certificate will be awarded when four or more logs are received. Novice, Technician, and mobile operator certificates will also be awarded. [7] Logs must also show UTC date and time, band, and emission, and be received not later than September 13, 1986. The first contact for each claimed multiplier must be indicated and numbered and a check list of contacts and multipliers should be included. Multi-operator stations should be noted and calls of participating operators listed. Logs and comments should be sent to: Englewood Amateur Radio Association, Inc., Post Office Box 528, Englewood, New Jersey 07631-0528. A #10 size SASE should be included for results. [8] Stations planning active participation in New Jersey are requested to advise the EARA by August 1st of your intentions so that we may plan for full coverage from all counties. Portable and mobile operation is encouraged.

## PLANNED MOBILE TRIPS

DE W0LRH - TOM

EFFECTIVE 1 JANUARY 1987 I WILL DESTROY ALL MY LOGS DATED EARLIER THAN 1 JANUARY 1985. AFTER THAT I WILL BE UNABLE TO CONFIRM ANY CONTACTS MORE THAN TWO (2) YEARS OLD.



NA7W.

Will be taking a trip between the west coast and east coast. Leaving Olympia, WA. June 28th and returning July 27th.

Besides 20 mtr will also have 75 and 40, so don't be bashful.

Leaving early June 28th traveling north on I 5 to Seattle and then east on I 90 to Albert Lea, Minn. South on I 35 to Des Moines, Iowa, east on I 80 to Davenport and then I 74 to Indianapolis. I 70 to Columbus, Ohio, north on I 71 to Akron and east on I 80 to I 81 and north to Scranton, Pa. Will be a trip to Boston from Scranton but route hasn't been firmed up yet.

Depart Scranton on or about July 14th traveling on I 81 to Knoxville, Tenn, I 75 to Chattanooga then I 59 to Slidell, LA, I 12 to Baton Rouge and I 10 to Los Angeles. Will be stopping in Houston, El Pasco, and Phoenix.

From Los Angeles will take I 5 to Williams, west on 20 to Calpella, north on Hwy 101 to Aberdeen, Wa. Arriving back in Thurston county July 27th.

Check your atlas for counties you need and let me know on the net. Will be happy to go off freq. and put counties out, just need someone to assist me when off freq.

KC7YE, Jack

Must use one more week of vacation this year or give it back. Well, I'm sure not giving it back so I'll run counties (more fun than working). Starting 6-30, will run eastern OR, Hood River, Wasco, Sherman, Jefferson, Deschutes, Klamath; Lake, Crook, Harney, Malheur, Baker, Wheeler, Gilliam, Morrow, Umatilla, Union, Wallowa. On to WA Asotin, Columbia, Garfield or Whitman if am asked. Then a little ID Lewis, Latah, Shoshone, Benewah, Kootenai, Bonner. Then WA Pend Oreille, Stevens, Ferry, Okanogan, Skagit, Whatcomb then home to Snohomish. I'll run the rest of eastern WA in August. My goal is to run all of WA and OR in 1 year, years up in mid-NOV so think I'll make it, will get last OR after Labor Day. 73, Jack.

WB6FJU, John

NC Haywood, Buncombe KY Whitley, Laurel, Rockcastle, Madison, Clark, Jessamine, Fayette, Scott, Grant, Owen, Kenton Boone OH Hamilton IN Dearborn, Ripley, Decatur, Rush, Shelby, Marion, Boone, Clinton, Tippecanoe, White, Jasper, Newton, Lake, Porter IL Will, Cook, DuPage, Lake WI Rock, Dane, Columbia, Sauk, Juneau, Monroe, Jackson, Trempealeau, Eau Claire, Chippewa, Barron, Washburn, Douglas MI Carlton, St Louis, Itasca, Beltrami, Clearwater, Polk ND Grand Forks, Nelson, Ramsey, Benson, Peirce, McHenry, Ward, Montrail, Williams MT Richland, Roosevelt, McCone, Valley, Phillips, Blaine, Hill, Chouteau, Cascade, Teton, Pondera, Toole.



A Hint for Mobiles who use a bumper mount from KA2CNG:

Ever since I have been mobile I have been plagued by two problems with a bumper mount. Corrosion and vibration keep breaking the coax connection at un-opportune times. Lately I have carried a soldering iron and a 25 foot extension cord on all trips to fix the problems. No more thanks to Radio Shack. They have a new part for CB'ers that when us hams find out about it will probably give them more business. They have a 3/8 inch 24 thread mount with a PL259 connector on the other end. So instead of soldering the center lead and braid on the coax of a standard bumper mount you can just plug in your connection for a corrosion and vibration proof connection. When I travel to N. Carolina convention this summer I plan to leave the soldering iron and extension cord at home. The Radio Shack part no. (new for 86) is 21-961 and cost \$4.29.

## MEMBERS SPEAK!!

W7HRD Ed-- I have been in County HUNting nearly one year ad am enjoying ti alot. I have even gotten the bug to put a rig in my car, so I can enjoy te game from te oter end, and perhaps give out some SW Arizona counties someone needs. However, its been about 30 years since I lasst looked into puttn a rig into a car. Then, it was vibrators, generators and tubes; nw it is direct DC, alternators, and rarely a tube. I need to bone up, to go moile today. As a suggestion, perhaps some of the mobilers could care to put a sort description of their moble setup into the Newsletter- or share some commnts on what works or dosen't wrk. Perhaps ;some comments on antennae too. All ofthis to help "fixed" station guys like myself, who have nbo idea at all wat it takes equipment-wise to go mobile. In the old days, my mobile friends in NY usually put a 2nd battery in their car. Is that still common practice? Noise reduction from the ignition always used to take super-human effot...does it still? We used to drag chains, to bleed static electricity from car to ground ?? Topics I'd like to hear about include Power systems, noise problems, where to run the wires, what transceivers to use(new/used, etc), antennae and tuning (where to run the coax), where to buy mobile equipmet and parts.

Now, to add fel to te fre- on acommonly debated topic on the nets; I think phonetics are useful, even on a mobile net, even if it slows the net down a bit. While no one approves using phonetics to swamp the competition, that is rarely the reason phonetics are used. Phonetics sure save alot of mis-directed MRC's (I may de before I get KA4SAX's call right) Keep up te good work. My thanks to hundreds of mobilers who have given me counties,. 73, Ed.

OK1DKS Karel--Thanks to the many mobile stations who helped me compile a score of 1551 counties confirmed. (Editors note, KAREL is looking for a sponsor for his dues. If interested, notify the Secretary.)



# The County Line Road Runner



PUBLISHED BY MOBILE AMATEUR RADIO AWARDS CLUB, INC.

## THE COUNTY LINE ROAD RUNNER

Editor, R. Dyson, K0AYO  
8943 S. Overhill Circle  
De Soto, KS 66018

Member



1764 NODRX 0387 F  
SHELDON MANN  
1618 WEST PINE ST  
STILLWATER, MN 55082

A ROAD RUNNER IS A  
VERY FAST BIRD!!