



# SCCARA-GRAM



W6UU .....VOLUME 5                                          NUMBER 11 ....W6UW  
SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION  
\*\*\*ORGANIZED IN 1921                                          SAN JOSE, CALIFORNIA\*\*\*



**ELECTIONS THIS MEETING SO PLAN TO ATTEND-WE NEED YOUR VOTE!  
CHRISTMAS PARTY DETAILS ALSO IN THIS ISSUE...RESERVATION FORM  
ENCLOSED FOR YOU TO SEND IN.....DON'T FORGET, HO HO HO.....**

## FROM THE PREZ

October has been quite a month what with the Convention and the Pot-Luck Barbecue.

The Convention was a winner! Some 630 delegates trooped through the exhibits at least once, enjoyed our programs and mostly went elsewhere for Saturday Dinner. Our Banquet drew only 226 (much less than our guarantee), a shame since both the food and Lenore Jensen were tops. All the bills aren't in, but "Shorty", AE6Z still feels confident we're in the black. Our exhibits included all the majors, most of whom seemed pleased. George Allen, WA6Ø, is quite talented as an M.C., as is our "Wouff Hong" Troupe, who inducted some sixty initiates at their mid-night rites. (They should have saved that for Halloween!!!)

The Pot-luck Barbecue, dedicated to the "Old-Timers", that followed on October 11th at the Congress Springs Station County Facility was great for the forty or so that attended. The weather cooperated so that everyone enjoyed volleyball, horseshoes, "jawin" and the Barbecue. Those that couldn't come missed a truly fine day. Betcha we have another in '87.

Now for November. Micky Lutz, N6ØDN, not only has us back at County Service Center, 1555 Berger Dr., Bldg 2 for our November 10th Meeting, but also has obtained the services of Santa Clara County Geologist Jim Birkland for our program. Jim will talk to us on his favorite subject, "EARTHQUAKES". And if your XYL is interested, bring him/her along. After the program we'll talk briefly about SCCARA's future: Officers nomination/election for 1987, what we want to do . . . and how we are going to pay for it (fix dues). This is an important meeting for SCCARA. We need your input. Please don't miss it. We have had a great year, and we don't want to lose momentum now.

Our Nominating Committee is chaired by Al Gordoy, K6LHQ. If you are interested in running for office, please call him at 297-5398. We need new blood - and the door is open!!

DECEMBER CHRISTMAS PARTY. In keeping with old tradition we will again have our Christmas Dinner Party on December 8th at the Moffett Field CPO Club (just outside the gate). Party arranger Merrill Card, KB6TØ,

has reserved the same room (reservations are limited to 90), and the same super cuisine: Prime Rib at \$15 per plate, or Poached Salmon with wine and butter sauce at \$12.50 per plate. Bar opens at 6:30 pm, dinner at 7:30 pm. We'll again have Christmas (Prize) Tapes, door prizes, thank yous, installation of officers (hopefully), and last but not least the usual exchange of gifts between members (bring a wrapped gift for someone of your sex, \$5+ value (hold the soap and cologne for the men). If your XYL misses this one you are in the doghouse. Send in your reservation now. Reservation is on back sheet.

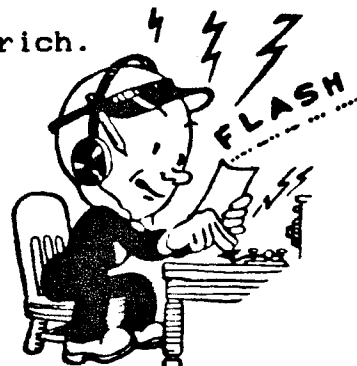
73's de Ed Rawlinson, W D 6 Chili Hot Dog, Prez.



CA CA CA ..... de WB6WKM

I'm still hearing good reports on the convention! Folks that I have chatted with all respond with a positive attitude. Makes you feel good to be involved with a winner. SCCARA (all members are winners), continues to show us it has what it takes. So don't you be afraid to offer help if you are ever asked. If no one asks feel free to offer, we need you.

Back in February of 1985 I offered to take on the SCCARA-GRAM, as it had been in trouble and had dwindled down to a single sheet. I felt that I might be able to get it up to about two sheets and cover a little more material. Well it grew rapidly due to input from club members! Boy that's what it's all about! I told myself that I would keep doing it until it wasn't fun any more. I was wrong. My job got in the way---I had been working for the same company for 13 years and lo and behold they changed the way we went to market and that of course changed not only my personal time, but also where I worked. So since the first of 1986 it has been a struggle to get this paper out on time. The last 11 months with the exception of two or three months has found me leaning on other club members to complete my duties. Believe it or not I still enjoy putting it together, but I just can't continue struggling anymore. I approached our Super President, Ed Rawlinson, WD6CHD and he was able to preform a miracle ! He somehow managed to convince Shorty, AE6Z that if he took it over he could have all of the fun to himself. Well Shorty has accepted and all of the club will now get to see a much better effort. You know Shorty doesn't do anything half-way, it's just not his style, he either does it right or not at all. I couldn't be more pleased for both myself and the Club. I ask all of you to now give the fantastic support that you gave to me, now to Shorty. To all of you (and there are just too many to mention), that gave me support in the way of comments and articles- I say **THANK YOU ON BEHALF OF OUR CLUB AND MYSELF!** So 73 for now and CU later one and all.....Dick Letrich.



CQ YL; CQ YL; CQ YL de Carla, W06x

"PACIFICON '86" is now history. We have returned to our everyday routines and are contemplating exciting future projects. Serving on the convention committee was a pleasing experience for me, and I feel that I have gained much personal enrichment. My thanks to all who helped keep me on track, especially the suggestions and constructive criticism of Shorty, AE6Z.

The YL session went nicely with about thirty-five YL's and three or four OM's in attendance. BAYLARC and YLRL managed to sign up some new members. I am very appreciative of the entertaining presentations made by: Sue, KA6SOC; Mary Lou, NM7N; Esther, W6BDE; and Mary, WA6KFA. I assure you that noone fell asleep. Lenore Jensen, W6NAZ attended. What a gracious lady she is. I must not forget Susan Tracy, WA6OCV who so nicely took time out from her busy schedule to attend. Meeting some of the persons whom I have known by call was a thrilling experience, and having so many in attendance was very rewarding.

★ I view with disdain the failure of Ellen White, W1YL to make an apperance. I personally requested her participation, and she was brought out from headquarters for her DX work and to be the YL attending from headquarters. Just being introduced would have been so nice, but she, apparently, deemed our session to be of little importance. From discussions with more traveled YL's I have learned that Joan Gibson, KG1F would have been a better choice. Joan is the editor of: "YL News and Views" in "QST".

Did you notice the smiling faces on the prize winners? How about Fran, KA6UUS winning the generator? Also Joe, WA6TBT winning the 751-A. I had my heart set on winning that one. I am glad for both of you and for all the other winners.

Speaking of ham gear, isn't it about time that we set up a program for loaning some of our dust gathering spare equipment to new hams? Some of the new upgrades cannot afford any gear at present. They would be very grateful for a short-time loan of some gear to practice their new skills with.

It is nomination for office time. I hear that we are losing some excellent officers. I hope that their replacements will be just as capable.

BAYLARC members will shortly recieve next meeting details.

\*\*C U Next Month 33 and VY 73, Carla, W06X\*\*



★ THOSE ACTIONS THAT  
ENDEAR THE ARRL TO  
ITS MEMBERSHIP...  
EDITOR



..... The Equipment Column, by Eric N6NMZ .....

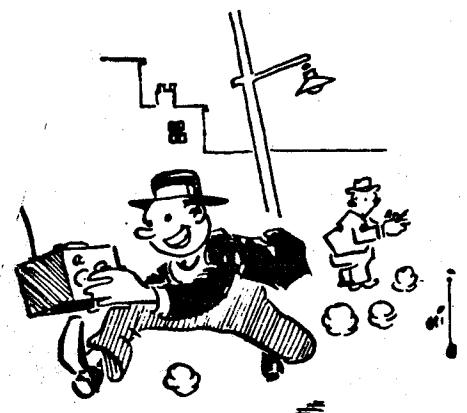
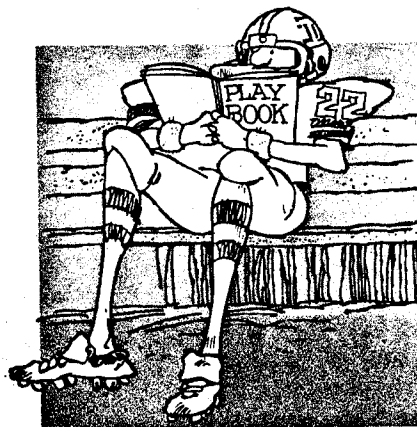
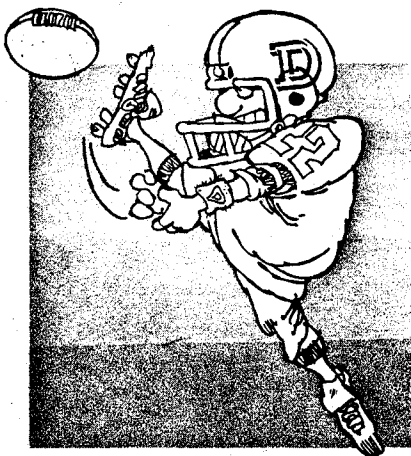
It's hard to believe that another month has gone by already. As you may or may not know, I have accepted a job in Sacramento and will be living in my home in Applegate. I will continue to write this column as I believe that the club needs to have a source of this kind of information. Although nobody seems to want to write in, I have received many favorable comments on the column. I would like to give the opportunity to another club member to write this column. If anyone would like to give it a try, please give me a call or write.

A lot of people have been talking about the Condor Link lately. I have taken this opportunity to include in the newsletter copies of the Condor Connection and Western Linking Association maps courtesy of George, K6GZK. The Condor link is entirely 220 Mhz and can be reached on 224.600 Mhz in the Bay Area. The Western Link has both 220 and 2-meter inputs. In the Bay Area they are: 220.640 Mhz and 145.600 Mhz simplex. These are both very reliable, not to mention fun, systems.

I hope everyone had a great time at the convention, I did. For those of you who didn't make it, here is a little info on some of the new equipment on display. Both Yaesu and Icom had their new mini handhelds on display. These should be on the market soon. Yaesu had their new FT-70/G HF portable on display. I covered this unit in last month's column. Icom had the new line of mobile radios on display. The IC-28 and IC-48 have been out for a while. Add the IC-38, 220 Mhz, to these. I really like these radios. I mentioned a little about them in a previous column. I'll tell you more when I get my hands on them. One thing is mysteriously missing though. Beware that the microphone with the touch-tone pad is optional. I think this was a ploy to keep the price down. A couple of new additions to the handheld line from Icom were also being shown. The IC-03AT, 220 Mhz and the IC-12AT, 1.2 Ghz, both digital programmables. If you didn't get to see this equipment, you really missed out. Hope you make it next year.

Good news, Larry finally got his Yaesu FT-703 back from service. Took them long enough. Dick, WB6WKM is finding that MFJ is also slow when it comes service time. If anyone has had experience with Icom or Kenwood service departments, let us know how it went. The address is : The Equipment Column, P.O. Box 643 Applegate, Ca. 95703.

73's  
Eric Homa N6NMZ



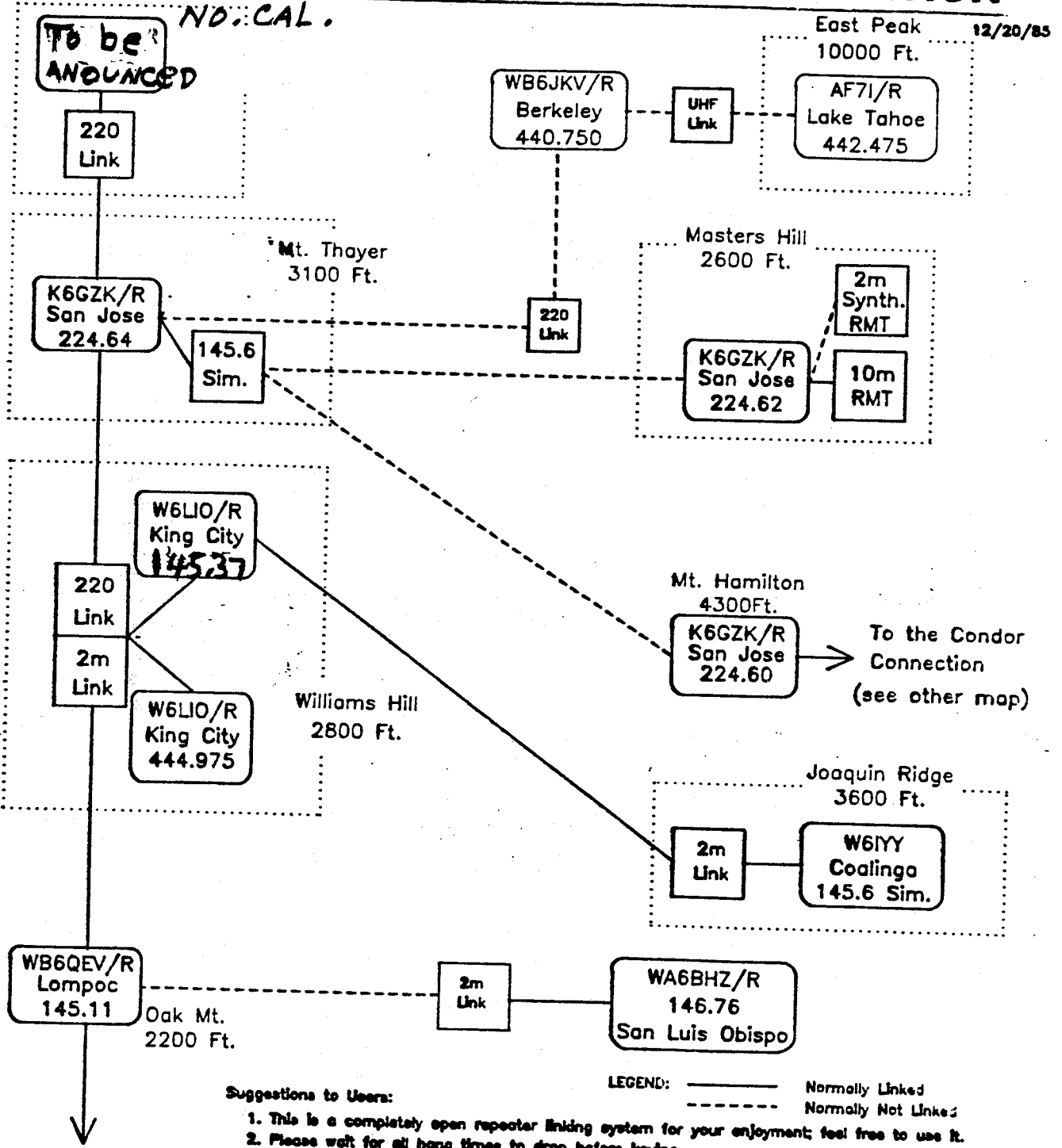


# WESTERN AMATEUR LINKING ASSOCIATION

NO. CAL.

12/20/85

To be ANNOUNCED



**Suggestions to Users:**

1. This is a completely open repeater linking system for your enjoyment; feel free to use it.
2. Please wait for all hang times to drop before keying.
3. Key up, wait 1 second, then talk. (This allows all systems to reset)
4. Do not key up during a RPT ID. (All IDs have priority)
5. In case of emergencies, this complete system becomes a standby for Disaster Communications.

LEGEND: ——— Normally Linked  
 - - - - - Normally Not Linked

To San Diego

For extra copies, send SASE to K6GZK 4175 San Felipe Rd. San Jose, CA 95135

NET FORMAT

QST QST QST THIS IS MY CALL IS ACTING NET CONTROL FOR THE CONDOR CONNECTION MONDAY NIGHT NET  
THIS NET MEETS AT 8 PM AND VISITORS ARE WELCOME.

# THE CONDOR CONNECTION

IS A NONPROFIT GROUP OF INDIVIDUAL REPEATER OWNERS

## DEDICATED TO WIDE AREA LINKING

## DISASTER PREPAREDNESS AND EMERGENCY COMMUNICATIONS

### FOR ALL LICENSED RADIO AMATEURS

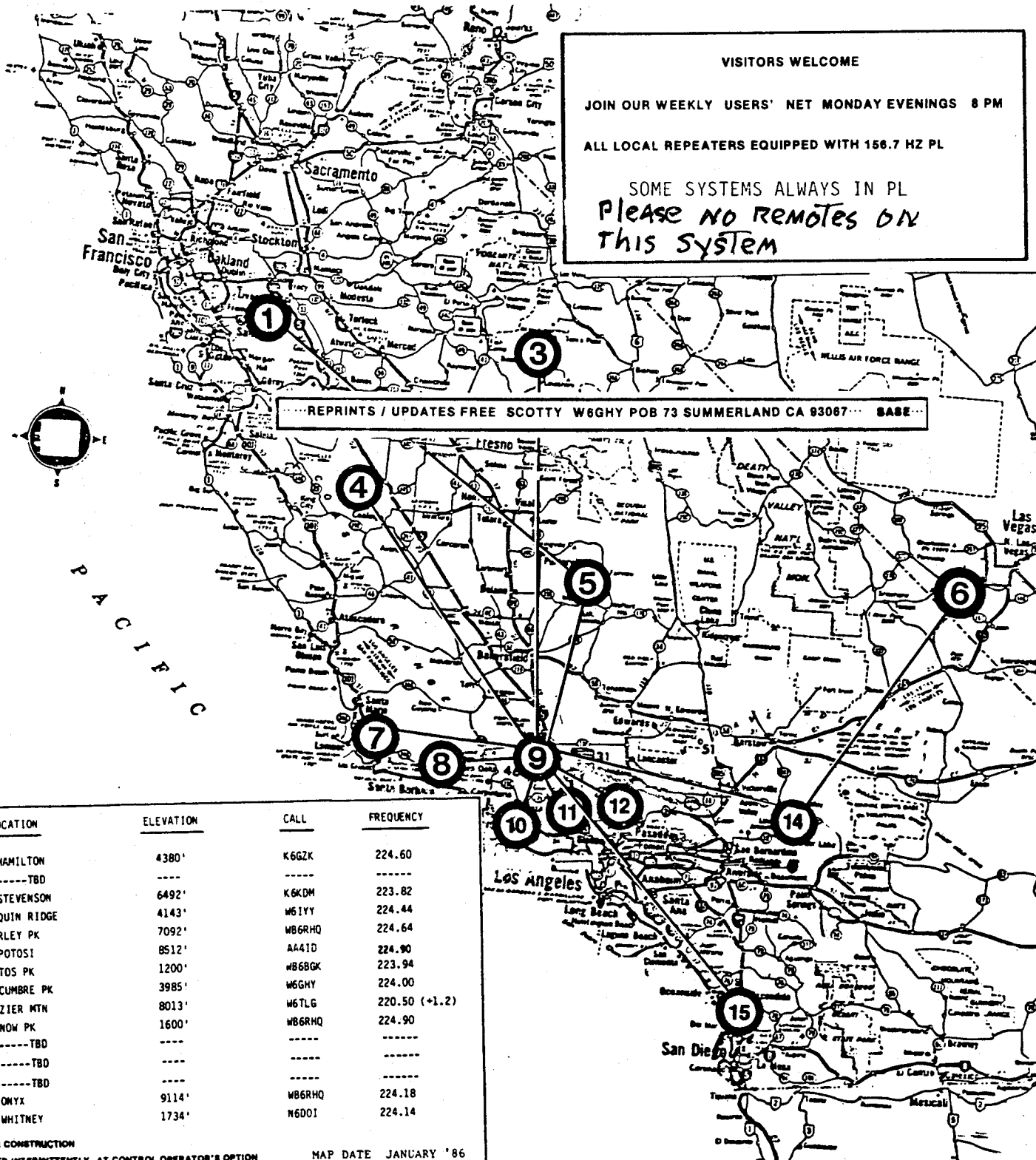
NO MONEY OR FEES OF ANY KIND NOR MEMBERSHIP SUPPORT IS ACCEPTED. ALL EXPENSES ARE BORNE BY REPEATER OWNERS

IS THERE ANY EMERGENCY OR PRIORITY TRAFFIC AT THIS TIME?

ARE THERE ANY FIRST TIME CHECK INS WHO WOULD LIKE TO SAY HELLO TO THE NET? COME NOW

THE FORMAT FOR THE NET THIS EVENING IS TO CALL FOR SUFFIXES ONLY

WITH THE SUFFIXES BEGINNING WITH THE LETTER (S) ...thru... suffixes only ... thru... now please



THIS MAP IS UNDER THE SOLE OWNERSHIP AND CONTROL OF THE CONDOR CONNECTION. PERMISSION TO REPRINT AND DISTRIBUTE IS GRANTED UNDER THE STIPULATION THAT NO ADDITIONS, DELETIONS OR CHANGES WILL BE MADE

## THE ABC's OF RTTY # 11

These four characters can be chosen by the users, but must be agreed beforehand by the two stations concerned. In the commercial maritime service, these characters form a selective-calling code, but for amateur use, the four-character group suggested for all random QSO's is, perhaps not surprisingly, CQ CQ, so that the two sync. blocks are C, RQ, Q and C, Q RQ.

Alternately, for "sked" QSO's, where random reply might be unwelcome, the letters can be made from, say, the last four letters in the call station's callsign.

To take care of any slow drift between the two station's timing after initial contact, the slave station monitors the timing of the data transmissions received from the master. If these tend to drift away from the optimum point, that is halfway between the adjacent sampling instants, then the local clock is shifted to correct this. Thus the slave timing follows exactly that of the master. The master uses the same technique to make sure it is sampling the signal from the slave at the optimum instants.

Resynchronization:

The drift correction is a very slow action, and so is not easily disturbed by short periods of interference. However, if contact is lost completely for some time, then both stations must re-establish the correct timing. This can be done by operator intervention to start again as if commencing a new QSO, but the usual procedure is that when both stations have been receiving errors or requests for repeat for 32 blocks, then they both automatically drop back to the synchronization procedure with the sending station retaining any unsent message in the buffer. A remarkable feature of the system is that it "remembers" which station was sending before the interruption and when back in sync. again, a change of direction is made automatically if required, and the remainder of the interrupted message is then sent, with no gaps or errors.

Timing considerations:

CCIR recommendation 476 specifies the block repetition rate at 2,222 per second, and the data rate within bursts at 100 bits per second. Thus a block of three characters takes 210 ms., and a control 70 ms., leaving 170 ms. in which neither station is transmitting. Although at first sight it might seem a good idea to allow the biggest margin of time for delays in antenna change-over relays etc. and arrange the slave station to reply 85 ms. after the end of the master's transmission, the effects of distance between the two stations cannot be ignored, at least not for intercontinental QSO's. The velocity of radio waves is 300 km/ms. so the slave will receive his signal from the master delayed, and the resultant reply will be received late at the master station by 2 ms. for every 300 km. separating the two stations. Thus to make this slave reply not be obliterated by the next master transmission, on long distance QSO's, the slave must reply as soon as possible after receiving the master. With practical equipment, and taking into account delays through the various filters in the equipment, it looks as 20,000 km. is about the maximum range that AMTOR could achieve, which is just about to cover the world on hf, but not rule out some satellite possibilities, and of course rule out moonbounce.

-----to be continued-----

THE ABC'S OF RTTY #12

Another mode provided by recommendation 476 for transmission to a group of stations is the FEC (Forward Error Correction) or broadcast mode. When FEC mode is used, it transmits text continuously without switching on and off. The same 4/3 mark/space ratio coding is used, and each character is sent twice, spaced in time by 4 characters. The receiving FEC station then examines each character for the 4/3 ratio. If the ratio is 4/3, the character is printed. If it is not, the receiving station the examines the repeated character. If it has the 4/3 ratio, it is printed. Otherwise, a space is printed to warn the operator of a reception error. The FEC-mode is a one-way transmission system that does not require use of a special call code.

This is the end of these serie on Radio Teletype. There is still another mode on Teletype, and that is PACKET RADIO. Since I have not yet acquired any expertise with this mode, I have better let another author write some articles on PACKET RADIO....

Meanwhile, I hope that you have enjoyed these series on RTTY. And for those of you who like to practice the mode, feel free to contact me if you have a question. You can always find me at the monthly SCCARA meetings.

GL es best 73.

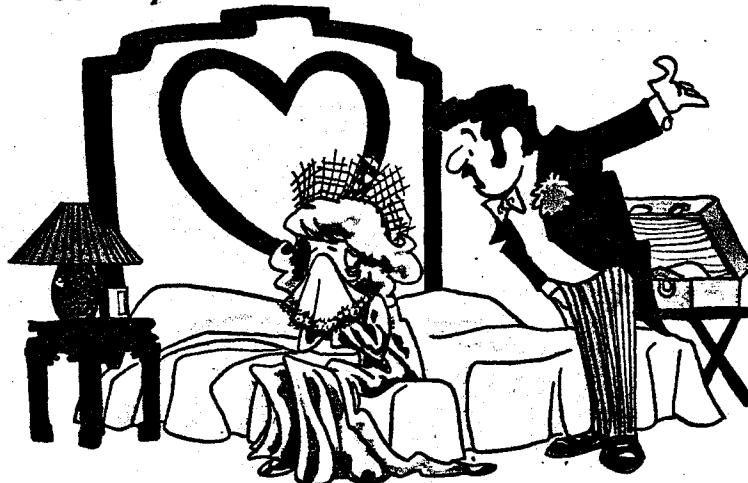
Harry, AEGM.



PACIFIC RADIO NEWS

AUGUST, 1920

In aviation it's Aviators,  
In navigation it's Navigators,  
In gladiation it's Gladiators,  
So why not call radio men Radiators?



"But you knew when you married me that this was my  
SCCARA MEETING night!"



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## Calling All Young Artists

If you're an artist between the ages of 8 and 18 and have an interest in electronics, here's an opportunity you won't want to miss. We'd like you to showcase your talent and originality in our national art contest. And, if your entry is one of the winners, your artwork will be forwarded to a worldwide contest for judging. Our contest features awards along with the possibility of national and international recognition for you.

The ARRL is sponsoring a national art contest with the theme "Youth in Amateur Radio." It is a wide-open theme, which allows you to use your imagination in the following mediums: photographs, drawings, paintings and other illustrations (excluding written text). You choose the medium; all we ask is that no artwork be larger than 11 x 14 inches.

There are three age categories, and a first, second and third prize will be awarded for each one. They are: Group 1—ages 8-12, Group 2—ages 13-15, Group 3—ages 16-18. Forthcoming issues of *QST* will announce winning entries and awards. Winning entries and other entries deemed appropriate will be forwarded to the "Youth in Electronics" contest being sponsored by the International Telecommunication Union, Geneva, Switzerland.

Every contest needs some rules:

- All entries must be received at ARRL HQ no later than February 1, 1987.
- Entrants must be League members or be sponsored by a League member. (If you don't know any members, write to ARRL for a list of possible sponsors.)
- Each entry must be accompanied by a completed application form (available from ARRL).
- Each entry must be the original creation of the entrant.
- Entries become the property of ARRL, and cannot be returned.
- Artwork must be no larger than 11 x 14 inches.

We're looking for your impression of Amateur Radio—any way you see it. Send for an application today to American Radio Relay League, Dept Y, 225 Main St, Newington, CT 06111.

Good luck in the contest!  
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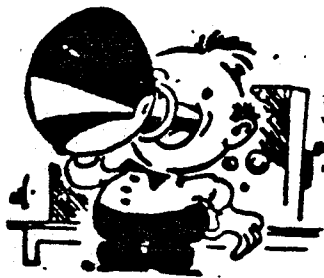
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Good luck in the contest!  
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### ... LETTERS TO THE EDITOR ...

The following article was sent in by member Walter Drozdak, D.D.S., W6LDO. Walt says "Having just completed the Pacific Division Ham Convention this Past weekend, members of SCCARA might be interested in this copy of my August 1933 *QST* in which a plug is given for the same event in an earlier time. Prices were a lot lower in those days!" Boy your sure right Walt! Thanks for the letter.

#### Pacific Division Convention

Hotel Saint Claire, San Jose, Calif.,  
September 2nd-4th

SANTA CLARA County Amateur Radio Association *knows* how and the prepared program confirms the assertion. The price: \$3.00. Arrangement with the hotel management makes it possible to obtain accommodation as low as \$1.00 per person when several occupy one room; single room, one person, \$2.50. The speakers: Earl R. Meissner, Dr. Terman, Frank Jones and Ralph M. Heintz. Write E. R. Booker, Chairman, P. O. Box 734, San Jose, Calif.

**SOMETHING FOR THE NEIGHBORS  
& ZONING BOARDS  
TO REMEMBER**

by VE7BJ in The Ontario Amateur, via SAYLARC  
Chirp and Eastern New York Club News & Notes  
N2BFG, editor.

A HAM RADIO TOWER . . . Why do people get  
upset when one puts up a radio tower? A few  
things in its favour:

**IT DOESN'T:**

- Squeal its brakes
- Screech its tires
- Blow its horn
- Roar its motor
- Slam its doors at ungodly hours
- Shine its headlights in your bedroom window
- Nor does it backfire.

**IT DOESN'T:**

- Drop leaves that you have to clean up
- Grow branches over your house
- Drop fruit or nuts which block your downpipes
- Block your view like a tree or building
- Grow roots that damage your walk or driveway
- Nor do its roots plug your drains

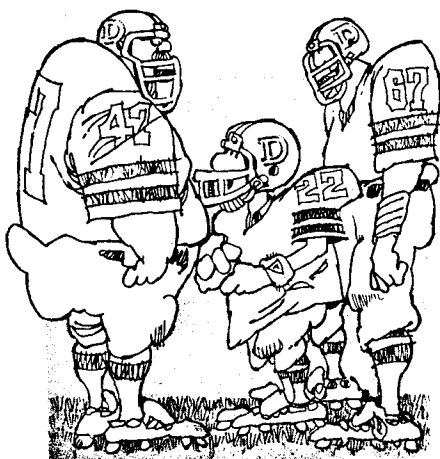
**IT DOESN'T:**

- Bite you
- Bark or meow
- Leave deposits on your property
- Dig up your garden
- Scratch your door
- Widdle on your trees
- Nor does it dig up and scatter your garbage

**IT DOESN'T:**

- Have boisterous parties
- Or play loud music
- Or have swimming parties through the night
- It doesn't ring your phone (accidentally?)
- Nor does it ride bikes across your lawn.

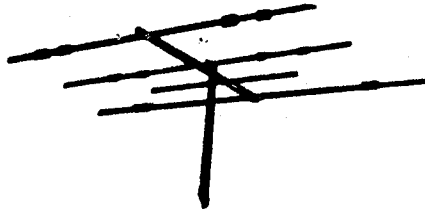
**IT'S JUST QUIET AND HAS NOTHING TO SAY**  
(except when that earthquake happens and the  
neighbors need to find out if their relatives are  
alive! Then it can have plenty to say. N2BFG, ed.)



**CB'ER FORCIBLY SILENCED**

A CB transceiver in La Habra, CA. was shot to death by  
an armed intruder in June. According to the Orange  
County Register, Dennis Carrico was talking on his CB  
radio after midnight when he sensed he was no longer  
alone. Carrico turned and saw a stranger with a gun  
standing over him. The gunman ordered him off the air  
and to move away from the radio. Carrico obeyed, after  
which the visitor shot it three times and promptly  
left. Carrico was not harmed but his \$500 transceiver  
was destroyed.

(Westlink Report)



FROM YOUR TREASURER....

Well, the Convention is behind us now so we can look ahead to the next club activities. I sure enjoyed the Convention. Though it was a lot of work to plan and produce the event, I feel it was certainly worth the effort. We had some great help from many people. THANKS!!!

NEW MEMBER....

Welcome Teddy Helderman, ex-WB6CBZ. Go get that new ticket, Teddy!

UPGRADES....

WOW!! Wally and I are especially proud of the following new calls..they were in our last Novice class: Robert Keller, KB6OHO. Bob was our Convention photographer. Robert Brown, KB6OHQ; Michael Madden, KB6OHM..whatta call! Michael has continued to study and is now signing Technician. J.J. Lauer, KB6OHN; and Bill Johnson, KB6OHP. Rick Dressler, KB6MXI upgraded to Tech as have Thor Johnson, N6OHK; Garth Ritchie, N6OFG and Marshall Feldman, N6OHO. Al Romeo made it to General with new call N6OJO. Allen Levin continues to upgrade. He has gone from Tech to Advanced since we last checked on him. Returning to the hobby as an Extra is Herb Vanderbeek, WY6G. Congratulations to all!

CHRISTMAS DINNER....

As "Chili Hot Dog" has informed you elsewhere, the annual SCCARA CHRISTMAS DINNER will be held Monday, December 8th at the CPO Club at Moffett Field. As in years past, it should be an evening of fun, cheer and good food. Merrill Card, KB6TO has made facility arrangements again, but he has been informed that this will probably be our last dinner at the club. If you have a good place in mind for next year's dinner, please step forward! We have been approaching the seating/serving limit at the club anyway so let's hope that the move is one due to high attendance.

The menu again will be your choice of prime rib of beast..er, beef at \$15.00 or poached salmon at \$12.50. Prices include the tip and a small amount for door prizes, table decorations, etc. Dinner will include rolls, tossed green salad with choice of dressing, potato or rice, vegetables, coffee, ice cream or sherbet. I think CHD mentioned the gift exchange. We also will have a box available for your contribution to a needy charity.

No one can be admitted at-the-door. YOU MUST HAVE A RESERVATION..so do it now! I must have your reservation and check by Dec. 3rd. Make checks payable to SCCARA.

-----detach here-----

NAME.....	CALL.....
ADDRESS.....	
CITY .....	CA. ZIP .....
QUANTITY CHOICE	PRICE TOTAL
..... Prime rib	15.00 \$.....
..... Poached slamon	12.50 \$.....
TOTAL REMITTED....\$.....	

FOR THE RECORD, MY LICENSE IS (circle):

UNLICENSED STUDENT NOV TECH GEN ADV EXTRA

MERRY CHRISTMAS and 73 TO ALL de Dan, WM6M

PRESIDENT.....Ed Rawlinson, WD6CHD / 264-2988  
VICE-PRES.....Art Furtado, KG6PY / 371-2655  
SECRETARY.....Jose Bocanegra, WA6YRU / 266-2997  
TREASURER.....Dan Dietz, WM6M / 224-9023

**DIRECTORS:**

George Allen, WA6O  
Clarence Dodge, KB6DLG  
Herb Himmelfarb, KB6ABG

Bob Richmond, N6KLQ  
Lou Steiner, WA6QYS  
Harry Wijtman, AE6M



SCCARA-GRAM STAFF: Dick Letrich, WB6WKM, Edit. / 264-0965  
Joe Quirantes, WA6DXP, Data Base Mgr. / 371-0959  
Ed Rawlinson, WD6CHD, Mailman, / 264-2988

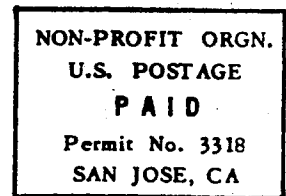
CLUB REPEATER....Input 146.985 MHZ=Output 146.385 MHZ. On-the-air meeting Monday Nights 7:30PM Local time except on regular meeting nights.

REGULAR MEETINGS, are held the second Monday of each month. Meetings start at 7:30PM Local and are held at the COUNTY SERVICE CENTER 1555 BERGER DRIVE, BLDG. #2, San Jose. Visitors are always welcome.

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SCCARA-GRAM is published monthly by the Santa Clara County Amateur Radio Association.

SANTA CLARA COUNTY  
AMATEUR RADIO ASSOCIATION  
AFFILIATE OF  
American Radio Relay League  
P.O. Box 6, San Jose, Ca 95103



WD6CHD  
ED RAWLINSON  
2619 ARAGON WAY  
SAN JOSE, CA. 95125

TIME-DATE BULLETIN