



# SCCARA-GRAM



VOLUME: 6 NUMBER: 2 PUBLISHED MONTHLY BY:  
 SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION  
 AN ARRL AFFILIATED CLUB-----ESTABLISHED 1921  
 REPEATER CALL: W6UU-----SECONDARY CALL: W6UW



\*\*\*OUR PREZ SEZ\*\*\*



January fortunately has been a slow month for SCCARA; a time to catch up and plan; classes don't start until the first week of February; "PACIFICON '87" is off the ground; the yard pruning is completed; bringing me to the column that I promised to write.

This month I have been particularly impressed by the things that ARRL has done for me, personally. I am planning a trip out of the country, downstream, and I desire to take my H-T along. I find that all I have to do is call ARRL headquarters in Newington and ask for "Nao", and I will promptly be sent the necessary forms for temporary licensing in the countries that I am to visit.

What an issue February "QST" is for a new ham - or an old one like me still plodding away towards achieving 13 WPM. "Build the Morsemaster II" project on page 33 looks like a real winner. Read the article and see if you agree that the machine and its lesson system might be just what it takes to up your speed, and it has a printer interface for hard copies also. I think that means I could practice my code and write letters at the same time! A few hours work and \$46.00 puts you in business, so says the article.

Page 60 mentions a Commodore packet radio hardware and software package for about \$37.00. I am checking that one out.

Best of all is: "Using QST's to Choose an Old HF Rig" (for purchase) on Page 20. This is a tremendous reference resource on any rig you might be thinking of buying. I counted 44 rigs in the listing.

(CONTINUED NEXT COLUMN)

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These were the articles that were of special interest to me, not counting the regular monthly columns, such as the W1AW schedule, etc. We obtain a lot of service for our ARRL dues, including all the effort that ARRL puts forth to defend our position in the world of radio communications. So, if you are not a member, please consider becoming one. Think about it! Be sure to send your renewal dues or initial dues to Dan Dietz, our treasurer (see below) so that the club will get its share of your ARRL dues.

73 de Ed, WD6-Chile-Hot-Dog  
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!!!1987 DUES ARE DUE!!!



!!!NAME DELETING TIME IS NEAR!!!

### SCCARA 1987 DUES PAYMENT COUPON

Remittance: ...\$.. ..  
 Individual (\$15) .. Family (\$20)..  
 Name.....  
 Addr.....  
 City.....ZIP.....  
 Call.....Class.....ARRL.Yes/No  
 Telephone.(.....)

\*\*\*\*\*MAIL CHECK TO:\*\*\*\*\*

DAN DIETZ, WM6M  
 6220 Hopi Drive,  
 San Jose, 95123

FEBRUARY 1987 ISSUE



\*\*\*CQ YL de W06X\*\*\*

Participation by women in communications dates back to the last century, and 150 years or so ago a YL developed the programming for the world's first computer. With these women showing us

the way and modern assertive actions by women it, only seems appropriate that a result should be the current influx of women into amateur radio, and our activities, performance, and involvement is becoming increasingly apparent.

As mentioned in my earlier columns, from time to time I will give a profile of a prominent or, not so prominent, YL operator. I am starting with Katherine Getsla, KB6ICQ. Kathy is a SCCARA member, and her OM is Stan, WA6VJY who is also a club member. Kathy can usually be found operating on the SCCARA, KXX, or SVECS repeaters.

Introduction to hamming came from Stan as he hammed or monitored various repeaters. She became familiar with many voices and met the voice owners in person in many cases. Finally came realization that she could no longer wait for Stan to be home to act as her control operator as she chatted on the air, so she enrolled in classes at WVARA and SCCARA. Her novice ticket was earned in March '85 and her technician in July '86. Her next goal is upgrading to general and possibly advanced -- soon I hope. Kathy is not a letter writer, but she likes to keep in touch with friends near and far, and she finds ham radio to be the best method ever.

Kathy is currently employed as a bookkeeper for the Wooden Horse Toy Store in Los Gatos. In the near future she hopes to start her own company offering office services to small business owners via computer.

In addition to hamming Kathy enjoys gardening, knitting, crochet, and cats. Oh yes Kathy loves cats! Can you visualize her relaxing all curled up on an easy chair with one hand petting her two cats and the other on

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# V E E P

\*\*\*\*\*OUR VEEP SAYS\*\*\*\*\*

One of my favorite subjects is HF antennas as I, a new ham, try to compete on the bands. Like most of us my dilemma is to find the most efficient antennas that can be used in the restrictive environment created by family and neighbors. This task is not an easy endeavor and no doubt will be ongoing. To help all of us with this problem I have enlisted Al Gaetano, W6VZT to speak at our next meeting.

It might be interesting to have everyone describe the antennas that they are now using, and how well they like them. I have two strange ones: an 80-meter loop used on all bands, and a 20-meter X-beam. Let's share our experiences and make this a rewarding meeting.

73 de Allen, N6NOY

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(CONTINUED FROM PREVIOUS COLUMN)

her hand-held.

Ham interests center on community service by communicating during emergencies and disasters; she also found helping out during the marathon to be fun. Being able to communicate with Stan at any time gives her a feeling of comfort during her busy schedule, and being able to reach anyone during a personal emergency gives her a sense of security not had by her non-ham counterparts.

Kathy's pet-peeves are amateurs who think the rules apply to others and not themselves, and those who police the bands by trying to force everyone to follow their self-created rules instead of the FCC rules.

Those who attended the Wouff Hong initiation at "Pacificon '86" will remember her as the delightful novice. My first impression of Kathy has proven correct with time; she is very bright. She has many facets one of which is the ability to be very entertaining. I am sure that all join me in wishing her success in business and her upgrading efforts.

73 and 33 from Carla, W06X

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FEBRUARY 1987 ISSUE



\*\*\*FROM YOUR TREASURER\*\*\*

NEW MEMBERS: Let's give a big SCCARA welcome to: Joe Eykholt; Rick Klarlquist, N6RK; Doris Federwisch; Hal Federwisch; Irvin Sullivan;

Uriel Winfree; Les Stephenson, KB6PIV; and Robert Forster. Four of the above signed up at our last meeting. It's great that not only did they join but they attended a meeting and jumped right into action. Here's hoping that we continue to see some new faces among the more familiar ones. Why don't YOU bring a friend to the next meeting?

DUES: Dues are due now. Only 30% have renewed to date. We don't want to lose you.

INSURANCE: Our club liability insurance jumped from \$140.00 in 1984 to \$551.00 in 1985. I just paid our 1987 fee of \$527.00. I'm glad to see the price stabilize...unfortunately at the higher level. Our liability coverage is one million.

WORLD RADIO: We have renewed our participation in the "World Radio" club listing. We will receive nine certificates for 1-year subscriptions to be given as prizes at our monthly drawing. You may also subscribe to "World Radio" through SCCARA. Send SCCARA a check for \$11.00. We keep \$1.00 per subscription.

ARRL: You may join or renew ARRL through SCCARA. Send SCCARA your check, and I'll forward our check to ARRL. We retain \$2.00 for each renewal and get a \$5.00 rebate for each new membership. We must maintain at least 51% ARRL membership to retain our affiliation with the league.

UPGRADES: Our congratulations to Claire True, KB6LBW for upgrading to Technician. (Editor: HOORAY!)

REPEATER FUND: Thanks to: Lee Henry, N6KMF; Michael Madden, KB6OHM; and Herb Vanderbeek, WY6G for their contributions to the repeater fund. Approximately \$550.00 is needed to buy duplexers and parts to complete the 440 machine. The fund has about \$190.00 in it. How about you?

73 de Dan, WM6M

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\*\*\*\*\*CLASSES\*\*\*\*\*

SCCARA OFFERS THE FOLLOWING CLASSES:

NOVICE: Starting February 3  
TEXT: ARRL "TUNE IN THE WORLD"

TECHNICIAN/GENERAL Starting Feb. 4  
TEXT: ARRL "TECH/GENERAL Q" "A BOOK"

TIME: 1900

COURSE LENGTH APPROXIMATELY 12 WEEKS  
LOCATION: COUNTY SERVICES BLDG #180  
1555 BERGER DRIVE, SAN JOSE  
(our meeting place)

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FOR SALE TO BEST OFFER  
VIC-20 COMPUTER

CALL: CARLA, W06X ON (408) 773 1885

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HELP WANTED: COFFEE MAKER

One of the niceties of our meetings has been the coffee and cookie break between the program and business meeting. This has been graciously done for several years by Al Gordoy, K6LHQ, and before him by Bob Wharton, W600Y. As I announced at the last meeting, Al is unable to continue. The coffee pot, plastic cups, sugar and cookies are provided by SCCARA. At fifteen cents no one ever got hurt, but we all had coffee and SCCARA made a few bucks. It's no big deal, but it serves a very worthwhile purpose.

HOW ABOUT YOU SERVING FOR A WHILE?

CALL ED: (408) 264-2988

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EDITORS NOTE:

Eric Homa, N6NMZ failed to deliver his promised short column by publication deadline time. The 220 article in this issue is courtesy of Eric. I have a good backlog of Eric-Generated material. Keep the material coming Eric.

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## THE 1-1/4-METER BAND

The 1-1/4-meter band is a rather unique allocation; in all the world, only we in North America can use it! This certainly explains the lack of commercially made equipment for the band, with nothing being manufactured here in the United States and the only transceivers coming in from Japan -- where the allocation doesn't exist. At present, only ICOM makes a mobile FM transceiver for the market. Kenwood, ICOM, and Yaesu make hand-helds for 220 as well. In addition for some time Hans Peters, VE3CRU of Transverters Unlimited has been making modified 220 Microwave Modules that work with HF multimode radios. SSB Electronics is also introducing equipment for this market.

What can you work on 220? For one thing the propagation under normal conditions closely resembles 144 MHz, with line-of-sight conditions being the rule on low power. With a gain antenna and some power 50-100 miles is possible. Enhanced propagation takes several forms, with the most common being tropospheric propagation as on 2-meters. This occurs mostly from late summer through fall and can result in contacts in excess of 500 miles mostly along coastal areas.

During periods of sunspot activity, 220 contacts can be made via aurora, again in the same manner as 2-meters, with stations in the northern regions of the United States having the best propagation. Meteor scatter is also quite popular on 220 during strong showers, such as the Perseids in early August. Again schedules are a must here; otherwise, you'd never hear the minute-to-minute "pings" from random meteorites entering the atmosphere. As far as Es is concerned, there haven't been any strong documentable cases for it lately, though this will change when the sunspot cycle peaks out in about five years.

Operation on 220 mainly consists of FM and repeaters. In fact, many users have tired of the crowded conditions on 2 meters and have moved up to what they consider a more "civilized"

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band, especially in urban areas. In those areas, most of the coordinated repeater pairs have long been assigned, yet many of the machines are "dormant" much of the time. Down at the far end you'll find the weak signal chasers and moonbouncers, with the former around 220.110 and the latter around 220.050. Moonbouncers in particular like this band since it is relatively "quiet" as opposed to its lower frequency borther. And with the band falling above TV channel 13, TVI is rarely, if ever, a problem, even with high power levels.

These advantages haven't been lost on other potential users of the band, so 220 continues under siege from a variety of special interests, who've come up with all sorts of "shared spectrum" proposals, as well as schemes to take the band away from hams outright and parcel it out to commercial users. The big problem is activity -- there just isn't enough to ensure the long-term use of the band. So the big manufacturers in Japan are loath to come out with lines of full-featured multimode radios for 220, not trusting in its staying power. It's up to us to determine the fate of 220, and the old saw "use it or lose it" certainly applies here.

One group that appreciates the "quiet" on 220 is the packeteers, who are multiplying on this band. Without the bother of continuous voice transmissions to contend with the packet mode is a very viable alternative. Of course, the Novice Enhancement Docket before the FCC may change all of that, giving voice privileges on 28 MHz, 220 MHz and 1260 MHz. It would result in more Novices on the band and in the long run may be what it takes to keep 220 in the amateur table of allocations.

As I said before, the equipment situation is somewhat tight. In addition to the 220 Microwave Modules, SSB Electronics will soon import a 220 transverter to the United States. As far as amplifiers go, Mirage and Tokyo High-Power make 220 units for 50-120 watt output,

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using HT's or mobile rigs as exciters. In the high power range, Henry Radio makes a version of the popular 2004 for this band using the 3CX800. Antennas are available from Cushcraft and KLM, as well as mobile whips from Larsen. A good deal of the operators on 220 have rolled their own equipment, for obvious reasons.

Next month the 70-Cm band.

(Printed with the permission of "73")

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HELP WANTED: PUBLICATION ASSISTANT

Getting out the SCCARA-GRAM issue each month is one of the important things done to make the club go. Sure, as a club, we plan and do interesting things, but, if YOU don't hear about it through SCCARA-GRAM ... forget it. Aside from getting material to print, there is a process of putting it together in photo-ready form; assembling the printed material; folding; preparing for mailing by ZIP code; making out necessary forms; then taking it to the post office for mailing. Shorty, AE6Z, as editor, does most of the work. Joe, WA6DXP furnishes mailing labels. I pick up the loose ends like preparing it for mail, completing mailing forms, and delivering it to the post office. WE NEED HELP! Just a few hours a month. If we get no volunteers, we can turn the whole printing effort over to professionals, and pay them at club expense. YOU behind the woodwork, please volunteer. WE NEED YOU!

Call Ed at (408) 264 2988

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EDITOR NOTE: I picked up a copy of a single sheet publication titled "The Office Manager" at Qument Electronics. It appears that Kathy Gettsla, KB6ICQ and Bert Saks, WB6NLA have gone into business together. Support our enterprising club member.

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CONVENTION NOTES:

October 2, 3, 4 are the days selected for "PACIFICON '87". So far no road blocks have gotten in the way of these dates. I started to shoot for Labor Day weekend, but Kenwood, and Yaesu objected to those dates. I think that their presence is a must for a successful convention. Kenwood has promised to send a complete booth setup this year.

Negotiations have started with various local organizations for a suitable convention site. I have a hold on suitable space at the Santa Clara Convention Center. I hope that we can arrive at a cost that we can afford, and that we can actually handle a ham convention at that site.

I need someone to work on planning ways to accommodate RV owners at this convention. Is there a volunteer?

I need programming suggestions. Hams who are speakers on both technical and non-technical phases of hamming are in demand.

Most of the last year committee will be back, but I will need some replacements. I will twist the arms of the club members considered most desirable for the job by me. As last year WA6O will act as my direct assistant in executive planning and decision making.

I am taking this opportunity to thank all those helping with "PACIFICON '86". I had my doubts as the date approached, but the club members came through magnificently. The board granted my request to make four non-club-members honorary members for one year for their assistance to me with "PACIFICON '86". You will find their names and calls in the board minutes.

73 de Shorty, AE6Z



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EDITOR'S QUESTION



Will the girl at Pioneer Chicken fall madly in love with Larry, KB6HRN?

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SANTA CLARA COUNTY AMATEUR RADIO ASSOCIATION

MINUTES OF CLUB MEETING, JANUARY 12, 1987

The meeting was held at the COUNTY SERVICE CENTER, 1555 Berger Drive. It was called to order by President Ed Rawlingson, WD6CHD, at 7:40 P.M.

DAN DIETZ, WM6M TREASURER'S REPORT. DEC '86

Beginning balance (repeater fund included of \$157.90) .....	\$423.26
Deposits .....	2473.00
General Fund disbursements .....	1706.39
Ending balance .....	1189.87
<hr/>	
San Francisco Federal Savings balance .....	(est.)..\$900.00

RON DE SILVA, NU6F

Ron gave an interesting account of his backpacking trips into the Sierra's (the John Muir trail) and his investigation into the best band for portable radio communications from the trail. His conclusion: 75 meter DSB with 3 watts from a solar charged battery and resonant dipole laid out on the ground gave reliable communications.

MOTIONS

It was motioned, seconded, and carried that the club renew the agreement with WORLD RADIO, listing the club and providing us with 11 free subscriptions to be used as prizes at the club raffles.

AWARDS

Club President Ed Rawlingson, WD6CHD handed out awards recognizing the achievements and hard work of various club members over the past year -- to those who missed receiving them at the Christmas Dinner.

ATTENDANCE      Today: 50

There being no further business, the meeting adjourned at 9:25 P.M.

BOARD MEETING ACTIONS, JANUARY 15, 1987

To clarify procedure, Dan Dietz WM6M was requested to present the board with a list of bills which would then be formally approved by the board.

It was decided to allow copies of business cards for advertising in the SCCARA-GRAM. The rate was set at \$5 per month, with no minimum number of months required.

The board decide to issue Honorary Memberships to the following people for w their great help in making the convention a success: Susan Tracy WA6OCV, Susan Luderman KA6SOC, Alex Alexander N6JCI, and Wendell Cloneger KB6ICR

The board approved a motion for our president Ed Rawlingson WD6CHD to bring a proposal to purchase 2 meter bottles for the repeater (at a price not to exceed \$550) before the membership at the next regular meeting. The repeater committee will present the details of this proposed purchase at the next regular meeting also.

The board decided to propose the 2nd Tuesday in December (Dec. 8, '87) for the Christmas Dinner in order that it may be held at the same place this year (Mondays will no longer be available).

Respectfully submitted,  
Teryl Pratt N6NRQ  
Secretary

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(copied from "The W6PIY Heterodyne"  
"EMERGENCY RESPONSE INSTITUTE"

The Santa Clara Valley Section ARRL will be presenting its "Emergency Response Institute" on March 28-29, 1987. The institute is open to all persons, amateur or not, who have an interest in "Emergency Response".

The institute will be held at the Santa Clara County Services Center, 1555 Berger Drive, San Jose, CA. Access is off of US 101 or Interstate 880.

The topics to be covered at the institute are as follows:

- Responsibilities of the Emergency Coordinator
- Publicity and Public Relations
- Mexico City Earthquake presentation
- ARRL Forum (TVI, RFI, VE program, OO program)
- Public Service
- Fund Raising and Procurement
- National Traffic System
- RACES
- SKYWARN
- Technical Forum
- Packet
- ATV
- Emergency Locator System

Cost of the institute will be \$5.00 for lunch and materials. A certificate will be given to those who complete the institute.

Please mail your reservation as soon as possible, as we expect to have full classes at the institute. Reservations are required and will NOT be taken at the door. This will give us an accurate count ahead of time for lunch.

(CONTINUED NEXT COLUMN)

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You may send a check or money order for \$5.00 to:

SCVES-ERI  
c/o Dave Larton, W6JQJ  
766 El Cerrito Way #D  
Gilroy, CA 95020-4149  
(408) 847-3605

If you have been waiting for the chance to participate in discussions with ARRL, ARES, RACES, SKYWARN, NTS and other officials, then this is the ticket for you! A schedule of events will be included with your reservation confirmation  
Assistant Section Manager for Training, Dave, N6NQJ

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NEXT MEETING



Al Gaetano, W6VZT will speak on small antennas. His talks are always colorful and accurate

The repeater committee hopes to have their proposal for the antenna system for the 440 repeater finalized and ready for discussion with the club as a whole.



Question: will Doc, W6ZRJ attend to keep Al in line? Come to the meeting to find out.



JD "Dogbones" Daddysman will attend. Be sure to ask him if he has any new innovative antenna hardware.

President.....Ed. Rawlinson, WD6CHD (408) 264-2988  
 Vice President.....Allen Levin, N6NDY (408) 255 6852  
 Secretary.....Darryl Pratt, N6NPQ (408) 281 3099  
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 Ed Rawlinson, WD6CHD. Mailman (408) 264-2988

Club Repeater: 146.985 in/146.385 out--447.425 in/442.425 out - a  
 simultaneously keyed open repeater. Net meets Monday night at 1930 PT  
 except on regular meeting nights.

Regular meetings are held on the second Monday of each month at 1930 PT.  
 Meeting place is COUNTY SERVICE CENTER, 1555 Berger Drive, Bldg. #2.  
 Visitors are welcome to attend.

Permission to reprint articles is hereby granted provided source is  
 credited.

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

SANTA CLARA COUNTY  
 AMTEUR RADIO ASSOCIATION  
 affiliate of  
 American Radio Relay League  
 P.O. Box 6, San Jose, CA 95103

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