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PAARA

GRAPHS



palo alto
AMATEUR
RADIO ASSN.

MENLO PARK C.D. RADIO CLUB, K6YQT

FEBRUARY 1979

- 2 -

VOLUME 23 NUMBER 2

PAARAGraphs is the official organ of the PALO ALTO AMATEUR RADIO ASSOCIATION and the MENLO PARK CIVIL DEFENSE RADIO CLUB

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Membership in PAARA is \$4.00 per calander year (payable in January) which includes a subscription to PAARAGraphs. Interested others may subscribe to PAARAGraphs for the non-sustaining fee of \$1.00. Send cash, check or money order to:

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No change of address when you move—No more PAARAGraphs.

PAARAGraphs STAFF

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Printing :	
Mailing :	Ed Fairbanks, W6AIN
Cover :	Sue Lindner, L6VLY

* denotes end of term.

PAST CORNER: Jettie Hill, W6RFF, discussed his job as Section Communications Manager (SCM) at the January 5 meeting, explaining the size and communications problems of the Santa Clara Valley Section. He stressed the importance of proper communication technique and form for the January 27 Simulated Emergency Test (SET). 55 were in attendance. Bob, K6SEM, kept a loose rein on the crowd which enjoyed eyeball QSO's, coffee and cookies before the talk, and raffle prizes, won, at least partly, by the wrong winners, after. Jim, K7UDG, requested PAARA sponsor an Explorer Scout Group, to be considered at the Board Meeting.

++ *

NEAR CORNER: REGULAR MEETING

FRIDAY

FEBRUARY 2, 1979

7:30 p.m.

EVALUATION of COMMUNICATION EQUIPMENT

Test on some parameters of equipment performance will be done with sophisticated test equipment by Terry, N6RY. A discussion of the tests performed and the results will be related to equipment operation. Emphasis will be on 2-meter gear but if you have an interesting something-else, bring it along.

Friday, February 2, 1979. Rooms 15-17, Menlo Park Recreation Center, Civic Center, Menlo Park. 7:30 p.m.
" " "

NEARER CORNER: SET operations begin Friday evening on 147.45mHz (time to coincide with the simulated emergency) and on the Northern California Net (NCN) on 3630kHz at 7:00 p.m. and 8:30 p.m. for those without 2-meter capability. NCN will have extra sessions at 1:00 p.m. and 5:00 p.m. Saturday and Sunday, January 27 and 28, on 3630kHz and traffic can also be handled on 7230kHz both days. A QRU to the net control station is all that is necessary. For the bashful: give it a try!

* * *

THENCOME CORNER: Novice Roundup: 4 p.m. February 2 to 4:00 p.m. February 11, 1979 (PST). See pg 87, January QST; lacking it, call Bob, 325 0497 for details. All novices should have a ball and really find out the capability of their gear. Quick and easy QSD's. WAS in less than a week! If you are having trouble with your rig (or even if you don't know how to work it) hollar for help. Novice Roundup is one of your big chances of the year.

BOARD CORNER: The Board of Directors met in the Cozy Mobile Home of PAARA at SRI January 10 while rain pelted the roof, installed Bob, K6SEM, as Chairman of the Board, substituted Irene, WB6RAF for Bill, WB6IML, as treasurer; Shannon, K6TNV, replaced Bob, W6BFH on the Board. Bill begged off the treasurer's job because of increased professional work commitments and Bob wanted to muck around with PAARAGraphs without a conflict of interest. Now that the shuffle has been completed PAARA looks to a good year.

The plea by Jim, K7UDG, for PAARA sponsorship of an Explorer Group at the January meeting was discussed but more information regarding responsibility and involvement was thought necessary before any decision could be made.

SET was discussed and a meeting scheduled for Monday, January 15 to complete plans.

It was decided to encourage Redwood City Amateurs with no active Club association to attend PAARA meetings. Mailings of PAARAGraphs will be their invitation, followed by land-line contact where possible. Erv, W6YPM, and Dusty, K6MPN, will go over the Redwood City Club Roster and supply Ed, W6AIN, with a list of those who might be interested. All are invited.

Bob, W6BFH, was encouraged to terminate stretched and torn stencils used in printing PAARAGraphs and to ensure pages came where pages should—and to report next month on alternative ways to produce the paper.

The meeting broke up with a discussion of old and new equipment—and a report by Gerry, W6NIR, of Rick, WA6NCX, and his TVI problem which led him to a neighbor with a KW on 20 and 15 with a 5 element beam up 80 feet. That may be one way to lick TVI complaints. Be a friendly complaintant.

The next Board meeting — February 7, at the trailer, 7:30 p.m.

o o o

PUBLIC RELATIONS CORNER: Al, W6TFT, suggests that fingers got crossed while typing the PAARA Roster. He should be:

Russell, Al, W6TFT, 250² Hopkins Av. Redwood City, 94062 365 4258
N6AOZ is now Bruce Krawetz (or the other way around) ex WB6SRC.
John Fraher was a guest of Tom, KH6DZB.

Peter Griffith, WA6VAQ, President of EMARC, a guest of Gerry,
WA6LIJ.

Fred Cook, Disaster Chairman of the American Red Cross was a
guest of Steve, K6FS.

Gerard Schoen, NC, Palo Alto, just came which proves you don't have to be a guest of anyone to come, and once you're at the meeting, you are a guest of the Club. Come again, Gerard. Bob Hill, W1ARR/6 — a two-time-in-a-row visitor: that's good. Bill Jenkins, WB6IML either moved since the roster was published or it was listed wrong. His address should be: Bill Jenkins, WB6IML, 2360 St. Francis, PA 94303 Please correct your roster.

= = =

FOUND CORNER: A name tag, approximately 2" x 3", inscribed

JERRY W6ARA PALO ALTO

retrieved from the leather folds of the past treasurer's satchel. If not delivered before, it can be claimed at SET or the next meeting—unless it's lost again in the mean time.

Any other much delayed or lost tags? See Bob, K6SEM, or Irene, WB6RAF—they'll send out a tracer to all who might have had their hands on it. Fred, K6YT, has requests for a few that haven't been ordered yet. Newcomers get them for being good guys—the old-timers have to get theirs for \$2.50 unless they exert themselves at club functions. Now—who doesn't have a tag? And Why.

o o o

CENTRAL CALIFORNIA RADIO COUNCIL (CCRC) CORNER: Steve, K6FS, attended the January meeting of CCRC as a new PAARA delegate at W6QIE's establishment. Six members were present, plus plenty of coffee and date-nut cake. Herewith the highlights:

1. At least two CCRC meetings during 1979 will be held at member clubs' QTH's; one other meeting will be held at EMARC's usual meeting place; dates of all three yet to be decided.
2. SPARK auction will be held either the third or fourth Saturday in February (to be decided) at Ford Aeroneumatic—more dope next meeting.
3. Dues for membership in CCRC will be \$12.00 per annum.
4. San Francisco Radio Club (SFRC) now has a repeater on 144.55/145.15 using the call W6PW/RPT, located on Mt. San Bruno.
5. SFRC is planning SET participation via repeater, tape recording all traffic for later transcription.

Steve, K6FS.

+ + +

EQUIPMENT CORNER: Continuing Bob Thompson's, K6SSF, analysis of the new generation of commercial amateur transcievers.

DRAKE TR-7/DR-7: The Drake TR-7 is a new Transciever just recently announced to the amateur market place. Few of them are around other than the demonstrators in the various Drake Dealer operations. Although I have heard one or two on the air, it is doubtful that many have actually been delivered at this time (October, 1978) The TR-7 with the addition of the DR-7 Digital Readout Board and the PS-7 120/240 A/C Power Supply comes to a bit over \$1500 if you are surly and can't wrangle a discount. A wide selection of extras is available if your purse or needs fit.

This rig is innovative to the amateur market as it uses a 48.05 mHz first I-F or so called up conversion technique. The idea is not a new one at all but it is new to most amateur transcievers. The idea is to minimize images and other spurious frequencies at the input to the 1st mixer as well as to permit a wide range of frequencies to be covered by a single oscillator to the 1st mixer. This 1st variable oscillator covers 48.05 to 78.05 mHz or a total of 30 mHz. A second IF is at 5.645 mHz which feeds the AM and Product Detectors and moves things along to the audio amplifying system. High and Low Pass filters are used ahead of the 1st converter in the up converter board section to minimize unwanted signals at this point. Very little amplification is used ahead of the 1st mixer to minimize the overload of the mixer and hence to prevent its being driven into a non linear condition which results in what we commonly refer to as cross-modulation. A very bad problem in highly congested metropolitan areas.

The addition of the Aux-7 Range Program Board permits coverage from zero to 30 mHz continuously with no holes or gaps as are associated with the more standard double and tripple conversion systems having a much lower 1st IF. Obviously then the Aux-7 board is a nice add on to have, especially if you want to listen to the BC band and longer wavelengths...and in addition to be ready for those frequencies we hope to get following WARC-79. Coverage of those frequencies would be a snap with this transciever should we manage to come out ahead in WARC-79 proceedings.

There are some disadvantages to this unit that should be pointed out. The principal one being the overall cost which seems to be the highest of the present models on the market. Another is the weight overall, including power supply, of 49.35 lbs.

If you're used to tuning the pre-selector, forget it. This rig has no tuning other than the VFO and the Pass Band Tuning. There are no transmitting controls to tune at all. Band switching is instant and there is no tuneup, a real contesters dream. Continuous tuning of the passband from upper to lower sideband is another Drake feature common to earlier units.

The Drake performed well in most of our tests and will no doubt be around for some time to come. It has by far the highest output of all the current fully transistorized rigs and should make everyone happy who has wanted drive for a pair of 3-500Z's. Everything considered it's quite a transciever.

PAIDUP CORNER: The below listed are those who, on record, have paid their 1979 dues:

AG6D, K5OSQ, K6's CMT, EHS, FS, MPN, OYN, RU, SEM, TNY, YT, K7's UBG, KA6's ATG, BEU, CUG, KH6DZB, N6's IQ, RY, YV, W6's AIN, ASH, BFH, CUN, DVB, DEF, EM, FLE, KJI, GNX, NA, NIR, RVS, TFT, UCE, UOK, WD, YPM, WA6's BCH, ENC, FSQ, IJP, LIJ, LNV, MIV, NCX, NYB, OFN, ROM, SOI, SZX, YSY, WA7WXA, WB6's JFH, IML, NNL, OOO, QPV, QXP, RAF, RNO, WD6's AAS, BGV, Doug Baum, Earl Crocker, F. Willard Griffith, Walt Harper, Don Johnson, W. G. Mc Elhinney, David McGuire.

It could be a little possible some are not listed who should be. For those, please see Bill, WB6LML, Irene, WB6RAF or Bob, K6SEM, or whomever you paid. The Spring Roster will be printed in March.

NETTING CORNER: Jettie Hill, W6RFF, brought copies of the Northern California Net Schedule, and other information, to the January meeting to accompany his talk. There were too few to go around and the following is a compacted, edited, copy:

AMERICAN RADIO RELAY LEAGUE
NATIONAL TRAFFIC SYSTEM

Northern California Net (NCN) covers the following ARRL sections in the Pacific Division: San Francisco, Santa Clara Valley, East Bay, Sacramento Valley, San Joaquin Valley and Nevada State.

NCN meets three times each night of the year on the following schedule:

7:00 p.m.	3630kHz	First session
8:30 p.m.	3630kHz	Slow speed training session
7:30 p.m.	VHF session WR6ADC, Mt. Diablo 144.81/145.41mHz.	

NCN connects to the ARRL National Traffic System through the Sixth Regional Nets - RN6 and DRN6. Will someone explain to the unknowleble what the DRN6 Net is?

+++

OTHERNET CORNER: For those who lack VHF equipment, 3630kHz will be used by the Northern California Net for SET at 1300 and 1700PST January 27 and 28 in addition to their usual evening sessions. 7230kHz lwill be available for those who don't know the code. Emergency allerting will be handled by the Western Public Service System on 3952kHz evenings and by the West Coast Amateur Radio Service on 7255kHz during the days.

• • •

WITTERS CORNER: Your editor failed to recognize Rick's, WA6NCX, August (what else?) achievement of having a article on refurbishing equipment in '73 Magazine'. He used most of the proce-eds to continue his membership in PAARA. A spinoff of marrying Rick: After a little misunderstanding between correspondents in the beginning, it was finally determined that Lucy is expect-ing to get her license to operate the OM's rig.

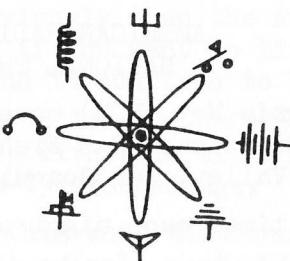
Congratulations to John, N6IQ, and Terry, N6RY, for their art-icles in the January issue of QST. Cam, K6RU, did much of John's enginesring for him. We are familiar with Cam for his work at PAARA Field Days. How many? At least five years but your editors memory isn't all that good nor his Club association much longer.

With about 3% of our members published, how come your editor hasn't been flooded with articles. Terry and Rick writ for a spell for PAARAGraphs—it seems to be the way to break into the big time. The best correspondent of all is:

HAROLD F. MOORE
"Hal"
W6DEF

Amateur Radio Operator

286 Terrace Street
Auburn, CA 95603



(916) 823-2600

We have had a request for formulae to determine crystal frequencies for some of the popular 2-meter transcievers: ICOM, Kenwood, Drake, etc., including what capacity the crystal sees. Those with crystal controlled rigs that have the data from their owners manual could bring it to the next meeting for tabulation, or, more better, someone with all the data tabulate it for publication.

The age of the builder is not yet dead. Construction projects are always welcomed. If you have a trick circuit or uncommon antenna pass it along. It looks as if stencils are out so drawings should be good. When you submit your article try to make drawings fit our standard format for page size—horizontally or vertically.

Let's bring the paper back to it's glorious days!

NOVICE CORNER: Swede, KA6BEU continues his efforts on 40 with good success but has found that he can tune his rig to 15 and 10 as well and has been rewarded with many states he couldn't reach on 40. W2's, 3's and 4's, it seems, are as easy as 7's, 0's and 5's. It does pay to adventure. Doug Baum took his novice exam from Ed, W6AIN, during the Christmas Holidays. He's taking a TS-520S on his next trip to Europe—he should be there by now—listening for N, K, KA, and the W series 6's along the way so next trip he can talk back. He's working on a QSL card that has room for latitude and longitude for his QTH.

TECHNICIAN CORNER: Haven't heard any new voices on two lately so the Techs must be yet developing.

GENERAL CORNER: Too many bands to try to find out who's new. If a reader hears of one, pass it along.

ADVANCED CORNER: Those who get to the Advanced stage usually don't blow their own horn and we don't find out about it until the new call book comes out—two years hence.

EXTRA CORNER: This seems to be waste space lately and should have been put on the bottom of pg. 5 where there was space for a filler.

— — —

Z A C K E L E C T R O N I C S

654 High St.

Palo Alto

has for years contributed raffle prizes to PAARA Auction and Flea Market. If you need something, drop in or give them a call.
326 5432

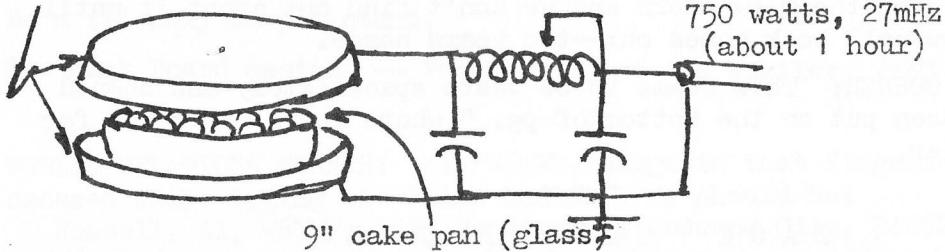
CONSTRUCTION CORNER: Since construction articles apparently are few and far between, and since February is the proper month, the following is offered:

Measure into mixing bowl 1/2 cup warm water, 43C.
Add, stirring to dissolve : 2 pkg. active dry yeast
• 1/2 cup milk, 27C
• 3/4 cup unseasoned mashed
potatoes
• 1/2 cup sugar
• 1 1/4 tsp salt
Stir in until smooth 1/2 cup butter
• 2 eggs

Add enough remaining flour to handle easily; mix with hand. Turn onto lightly floured board. Knead until smooth. Let rise until double (about 1 1/2 hr.). Punch down and divide in two. Shape each part into 16 buns. Place in 2 greased 9" round or square pans or 2" apart on greased baking sheet. Let rise until double (30 min.). Brush with egg yolk mixed with a tbs of water. Bake 375F 20 to 25 min. Cool slightly; then make cross on top of each bun with frosting made from confectioners sugar, water and butter.

What's to do with radio? If made as above, they're almost as good as Paisano's. If baked as below, nobody knows:

10" pie plate (aluminum)



FUTURE MEETING CORNER: March 2, April 6, May 4, June 1, the last meeting before Field Day, July what? Looks like a good week for two long weekends!

CLASSIFIED CORNER: Clay, K50SQ, has AMECO VHF Converters for 6, 2 and 1 1/4 meters with power supplies with IF output from 14 to 18mHz. Trade for a KWM2, TR-7/DR-7 w/ power supply, or, offer.

Gerrard Schoen has a mint SX28 he'd like to trade up. Call him at 326 0640.

PAARAGraphs classified section is available, sometimes even if not wanted, to PAARA members free, and to others as space is available.

UNCLASSIFIED CORNER: WANTED. Advertising executive for PAARAGraphs. Unusual opportunity to have a reason to visit the better equipment and parts stores in the area. Rates are low; reward is great. Resume may be given orally or in writing, or by volunteering, at the February 2 meeting.

WANTED: Printer for PAARAGraphs. Needed to upgrade the quality of the printed material. This issue printed at commercial rates of \$.03 per sheet for a run of 250 plus \$6.00 for the run per sheet. Anyone with a lead to a more advantageous method, call Bob, W6BFH, 325 0497.

WANTED: Short articles of general interest to the Club, to improve the written matter found in PAARAGraphs. If it's good enough, or too bad, your authorship will be recognized. Rick, WA6NCX, got his start here. Contributions to The Editor, PAARAGraphs, P. O. Box 911, Menlo Park, CA 94025, or better, 1043 Del Norte Ave., Menlo Park, CA 94025. Phone 325 0497.

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