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AMATEUR RADIO
STATION W69TX

VOL. XIX

1975*

PAARA GRAPHS

PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

MENLO PARK CIVIL DEFENSE RADIO CLUB, K6YQT

Apr. 75

OUR NEXT MEETING: will be on Friday, April 4, 1975, in the widely-acclaimed Menlo Park Recreation Center, near the M.P. Library and Police Station. Meeting cataclysmatically commences at 7:30 PM, very sharp.

YE OLDE PROGRAMME: is DOCKET 20282!! Yes, we've got Doc Gmelin, W6ZRJ, Pacific Division ARRL Director, coming to discuss the many important facets of this history-making proposal and to garner comments about it. Doc wants YOU to come and listen to the pro's and con's and then provide useful commentary. Help your own knowledge of restructuring and the ARRL's, too!!

Coffee Cookies Goodies Raffle Tea Eyeball QSO's
***** Come One Come All Everyone Invited *****

*****-----*****

THE PAARA BOARD OF DIRECTORS will meet on the usual Wed. following the meeting, this time on April 9, 1975, at 7:29 $\frac{1}{2}$ PM local time. We meet in the club "station" at the W6OTX trailer in the SRI Parking Lot, 333 Ravenswood Avenue, Menlo Park. It's worth it to come by just to see if that facsimile of a trailer will (a) still be there and (b) has not been thrown into the nearby incinerator, where it probably belongs! Come and dubiously decide the perogatives of PAARA.

-----*****-----

THE INFAMOUS PAARA NET: meets every Monday nite come rain, shine, or lousy conditions (on two meters??). Right on 145.24 mHz, at around 8:07 PM local time, you will hear much delightful Amplitude Modulated Radiotelephone conversation (remember what that sounded like?). Yes. Still not ready? Call up Fred Canham at 948-9238 and arrange to get your own 8068 kHz crystal for use in Gonsets, Two'ers, Cleggs, and the ilk. Fred just got in some of these rocks so if you want to join the fun on miserable Monday nites, drop in on 145.24.

*****_*****

OUR illimitable Andy Korsak, VE3FZK/W6, has decided that talking to people is not enough, so he has joined in the formation of an ATV club in Beautiful Milpitas. See him for the gory details -- call 366-5228.

JOIN PAARA AND JOIN THE FUN!

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PAARAGRAPH IS THE OFFICIAL ORGAN OF THE PALO ALTO AMATEUR
RADIO ASSN., AND THE MENLO PARK CD RADIO CLUB.

VOLUME 19

NUMBER 4

APRIL 1975

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VICE PRESIDENT: ANDY KORSAK VE3FZK/W6 366-5228

SECRETARY: HAL MOORE W6DEF

TREASURER: PAUL CHURCHILL W6QBY

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PROPERTY CUSTODIAN: ED FAIRBANKS W6AIN

#####

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-#-#-#-#-#-#-#-#-#-#-#-

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- 1. MEMBERSHIP INCLUDES PAARAGRAPH SUBSCRIPTION
- 2. DUES ARE A MERE \$4.00 PER YEAR
- 3. \$1.00 WILL GET YOU PAARAGRAPH FOR A YEAR
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EDITOR-IN-CHIEF: RICHARD FERRANTI WAGNCX

COVER DESIGN: BRUCE M. RAPP

LABELS AND MAILING: ED FAIRBANKS AND PAUL THEKAN

GENERAL FIXIT MAN AND ENGINEER: GUIDO FERRANTI

MAIN MOBILEER: DAVE WATERS

OLDTIME RADIO COMPATRIOT: GARY GIAMPAOLI

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GET RICH QUICK!!! - SELL YOUR GONK AND GOODIES HERE!!!
FOR SALE:

Gonset Communicator III, model 3133 2 meter xmtr-rcvr.
For 110 VAC or 12 VDC with manuals, schems, power
cords, all in new condition..... \$100.00

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144 to 148 mHz, 220 to 225 mHz. Fundamentals at 8-9
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FM, with manual, mint condition..... \$80.00

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lent condition but needs a little technical work.. \$20.00

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\$10.00, meter alone worth the price.

12 - 2 meter crystals in FT-243 holders at \$1.00 each or
\$10.00 for the lot.

If interested call : Charles Carpenter K6HPP
786 Coleman Avenue apt K Menlo Park
CALL 325-4845 Mon thru Fri. 6 to 8 pm, Sat & Sun to 8 pm.

FOR SALE:

HEATHKIT HW-101 SSB/CW transceiver with CW filter and AC
power supply \$225.00

HEATHKIT Cantenna dummy load, brand new, never used or
even filled with gooey oil..... \$8.00

CALL Charles Chernack, WB6WFW, at 326-2347, at 1F Hulme
House, Stanford, California 94305.

FOR SALE:

Hammarlund HQ-170 all band (160-6meters) am/ssb/cw receiver,
with multi-valued selectivity..... \$120.00
con't next pg.....

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PAARA GOOD STUFF TO BUY con't....

FEATKIT HW-32A 20 meter SSB transceiver, covering 14.20
to 14.35 mHz, 200 watts PEP. Used barefoot to
work Europe with a groundplane! \$75.00.
CALL Mike Eccles, G3PPE/W6, at 415-494-3267 eves or
408-738-2661 ext. 60 days for either goodie.

FOR SALE:

SWAN 500 CX, with AC P/S and spkr, and Shure EM-28A mike,
all like new, just checked out at the factory.

Hi-Gain 5BTQ 80-10 meter antenna.

Phone patch, Mobile Mike, Drake Low pass filter, Heath
grid-dip meter, never assembled, Heath IM-17 VOM,
solid state, plus other misc. stuff.

MAKE OFFER OR TRADE ON ANYTHING

CALL ALVIN DCTY, W6GAQ, at 327-8207 for a great deal.

NEW MEMBERS OF PAARA: We Welcome:

Dr. Robert Bisio, at 1330 University Dr., #11, in Menlo
Park. Bob would like to get a ticket soon.

William Tallmon, W6DVB. 355 Santa Margarita Ave, in
Menlo Park. Bill retired after 32 years with Eimac.
He was a charter member of PAARA when reactivated in
1947. Really happy to see you back with us, Bill!

Tareck R. Elass, WB9FUV/6, at 2754 Pierce Street Apt 3 in
San Francisco. An employee of SRI.

Join the Fun at PAARA!

Addition to the list of paid-up members: K6QNH, W6HKX,
WB6RNO, WB6BJB, and K6OL.

BIG MYSTERY OF CY6 PREFIX EXPLAINED de K6FS, Steve
Calgary, Alberta, is celebrating its 100th year throughout
1975. All hams living within 50 miles of that city
are entitled to use the prefix CY instead of VE during
the Centennial Year. Since Alberta is in the 6th call
area a VE-land, Calgary hams have gone to signing CY6.

A Centennial Awards committee has been established to issue
certificates recognizing ham participation in
celebrating this event. One award is available for
working a minimum of twenty (20) CY6's during the
calendar year 1975.

con't next page....

CY6 Prefix con't....

QSL's or other two-way acknowledgements of QSO are not required; just extract each CY6 contact from your log, giving the customary date, time, frequency, call of CY6 station contacted, name of operator at CY6 station, signal report and communications mode. Mail the 20+ list, along with your name and call and QTH, to: Centennial Awards Committee, P.O. Box 592, Calgary, Alberta, T2P 2J2 (note that zipper!).

On Fridays and Saturdays CY6's crowd around 3785-3800 kHz during evening hours; on weekends and some weekdays they can be heard on or around 14.2 and 21.3mhz. Who will be the first to earn a CY6 award? K6FS has logged 12!

-----*-----
REPORT of the Board of Directors meeting, March 12, 1975.

Present: Paul W6QBY, Ed W6AIN, Fred K6YT, Terry WB6GRZ, and good old Hal W6DEF.

Discussion by Fred: Obtained the required material to make the donated Hornet beam antenna into a 3-element beam for portable use.

The Board unanimously approved the repair of the trailer. This will be accomplished by placing sheet metal patches over the open spots (and much prayer that they will STAY there, no doubt!)

Discussion: The K6YQT RACES application will be filled out by Fred and given to the Radio Officer for his signature. He will send it to the FCC.

Discussion: Looking towards the future: we need a two meter simplex frequency for FM for the PAARA net when we all abandon AM and Get With It on wonderful FM. This would be preferably between 147 and 148 mhz. See elsewhere in this issue for a frequency breakdown of this area.

Discussion: We should revise the by-laws to include valuable donated items in a listing from the custodian.

And yes, indeed, we should start thinking about Field Day which is June 28 and 29 this year. Get cogitating!

The Board decided to dispense with all business at the next meeting so as to give Doc W6ZRJ ample time to discuss the docket 20282. What better incentive could you ask for??? Yes.

----- Loosely edited from Hal W6DEF's notes.

PAARA PICKIN'S AND GOOD STUFF

W6DEF will continue to monitor 146.52 mHz FM simplex, with a bit of noise now and then, at about 1920 local time every Monday evening. This is ten minutes before the Redwood City CD net comes on. W6DEF is a member of the Northern California Net which is a part of the National Traffic System. The Arrl says that the NTS needs more originations, so starting with the July reports (to the SCM) an extra point will be added to "third party" originations. This is to encourage greater usage of the NTS by people other than the regular amateur radio operators, yet handled for the sake of practice and spreading good will. The use of ARRL numbered radiograms is an efficient way of doing it, and showing this list to a prospective customer is a good way to suggest texts. Contact Hal for any of your message traffic.

By the way, Hal reports that his new SB-102 (not the infamous SB-104!!) is working great although he's a bit confused on the tune-up. Who isn't?

The K6YQT club license is good until February 14, 1980, since it just got renewed. Glad to see someone in the FCC actually works on Valentine's day...

PACIFIC DIVISION CODE PRACTICE AND BULLETINS

de Doc Gmelin, W6ZRJ

The following are code practice and bulletin schedules in the Pacific division as of this date:

W6QIE South San Francisco, Cal. 3590kHz, A-1

Every day except Monday at 8PM local time, 5 through 30 words per minute in ten minute segments which lasts until about 9:30. Good stuff.

W6ZRJ Cupertino, California. 3590 and 7090 kHz A-1, 3615 kHz F-3 Teletype, and 3815 kHz SSB phone.

Each first and third Tuesday evening as follows:

7:30 PM local on 3590 and 7090 CW Bulletins (15wpm)

8:30 PM local on 3815 SSB phone Bulletins.

9:00 PM on 3615 kHz, 60 wpm 170 Hz shift RTTY.

W6ZF Napa, California, 3540 kHz A-1

Each first and third Monday at 9 PM local. con't.....

PRACTICE AND BULLETINS CON'T.....

W6OWP Paradise, California. 3590 and 7090 kHz A-1

Monthly West Coast Code Proficiency Run. See QST for day and time of each monthly run.

K6RAU: Merced, California. 3840 kHz A-3 (Yes, AM phone!) This is a great beginner code course, from no knowledge to 5 WPM. Instruction given by voice transmission with practice, testing, and review as a part of the course.

Times and Days:

Starts the first Monday morning of each month of the course.

Time is 6:45 to 7:15 AM pacific local time, Monday through Friday for four weeks of the month.

Months for the course are March, April, May, September, October, and November. This can be copied on a

crystal set, a regen receiver, or any old clunker "short-wave" set 'cuz it's good old AM. How nostalgic.

-----*****-----
THE PAARA NET FREQUENCY DILEMMA or NOW WHAT DO WE DO?????

By Hal Moore W6DEF and Rick WA6NCX

As all of us are aware, there is a rather great need for the PAARA net to go to Bash-to-Blab FM along with 99 and 44/100th % of the rest of the known world.

This remarkable observation is due to the fact that more and more members are getting FM gear and some nuts (like ye noble editor and even Andy) are attempting to build or modify their own gear for FM. Apparently there are advantages to this, none of which I can think of at the moment.

At any rate, Hal reports that the March issue of World-radio News, on Page 24, there is a listing of Repeater Simplex Frequencies, quoted from the Ohio Repeater Council. Since it was decided to use the 147-148 mHz segment of the band for our simplex net (surplus gonk might tune up there a bit better) the following frequencies are official simplex channels in that band segment: 147.42, 45, 48, 51, 54, and 57. IF you compare that list with the latest dope from the California Amateur Relay Concil (CARC) all of those frequencies are free of repeater users except for 147. 57, at least in Northern California. (when was con't.....)

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FREAKENCY PICKIN' con't....

the last time you worked Southern California on two meters FM???.

It would be a darn good idea for those who already have two meter FM available to listen to those "clear" channels and let us know who is using them. It would be bad to pick a channel already in use by another club.

IF you look at the 100% good-taste (no mustard added)

Classy Diagram which flounders directly below, you will notice just how these crazy frequency channels are being used in the Bay area. 147.48 mHz looks like a good candidate for a frequency, since it is two channels from the Bay Area simplex frequency.

My data comes from the list published by the CARC,

REPEATERS, INPUTS, OUTPUTS.

SIMPLEX CHANNELS, ETC. *****
BAY AREA USE

OUTPUTS	SIMPLEX	INPUTS
* ** ***** 147.0	+ 147.4	+ @@ @@@@ @@@@ + 147.6

In the Bay area, 147.54 is an official simplex channel in general use and 147.57 is in use by another organization. Which frequency do you think WE should use for our weekly gabs and various activities? Write me or bring it up at the next meeting.

An unknown personage informed me that one can receive the Citizen's Band on a Drake R-4C with the crystal switch on 1.5 mHz (with the regular 160 meter extra crystal plugged in) and the preselector tuned to 11 meters. Works. How this phenomena occurs boggles the mind. Why anyone would want to try it is equally unfathomable.

Speaking of CB, a local organization seems to think that Docket 20282 has already taken effect. This is very false -- it's a proposal, and that's all!! 10-4?

A WEIRDO-FREAKY TWC-METER ANTENNA de Terry WB6GRZ

Never being one who could pass up another chance to utilize every possible esoteric antenna design, the RCA-created, circularly-polarized, twin-transitional-mode helix naturally caught my fancy. Originally used for transmitting in the FM broadcast band, it seemed natural for use on amateur frequencies as well. It's as close to an isotropic radiator as I've seen, except it has on-axis nulls (above and below) and the polarization is defined (right-hand circular).

The antenna looks like two corkscrews making love. (Ye editor's noble blood shudders at the thought). It is made of two half-wave elements bent into a cylindrical spiral with a 1/8 th wavelength spacing vertically between the ends of the same conductor. The second conductor's center point is mounted midway between the ends of the first. The center points are then joined by a support arm $\frac{1}{2}(\pi)$ wavelength in length. The feedline grounds to the middle of the support arm and the center conductor connects to two leads, which tap each element about 1/10th wavelength away from the center point (on the upper half of each element). The tap positions may be adjusted symmetrically for a match.

By now you're probably babbling like Porky Pig and need a Dramamine. If Rick is able, there should be some pictures. (Ye noble editor unabashedly confesses to Crass Stupidity at somehow losing the drawings Terry made for me. Next issue, should I actually keep them in spite of myself, there will be a drawing or two.) If not, see CQ magazine, April 1969, for details.* Jampro also makes a similar antenna using two "V" shaped elements; though the element spacing is unknown to me it looks like about 0.2 wavelength. If anyone has info, let me know. (Who's "Jampro"????--Dumb Ed.)

If you've passed this off as a Loof Lirpa joke, you're wrong. Although the theory says this antenna has a 3 dB loss to plane polarization, it isn't noticeable compared with a quarter-wave groundplane. In fact, fading seems less and weaker signals seem better; spiraled (screwed?) over to next page...

SCREwy ANTENNA CON'T....

probably due to the polarization rotation. If gain is required, stacking is necessary.

For two meters, use the following dimensions:

Element length (total): $38\frac{1}{2}$ inches.

Element end vertical separation: 10 inches.

Support arm length (total): $12\frac{1}{4}$ inches.

Distance to Feed Tap: $7\frac{1}{2}$ inches, approximately.

One final note, if you do build this antenna, make sure you make it with a right-hand spiral (like normal screw threads)! Otherwise we'll have a hard time hearing each other.

Let me know how yours works.....Terry, WB6GRZ

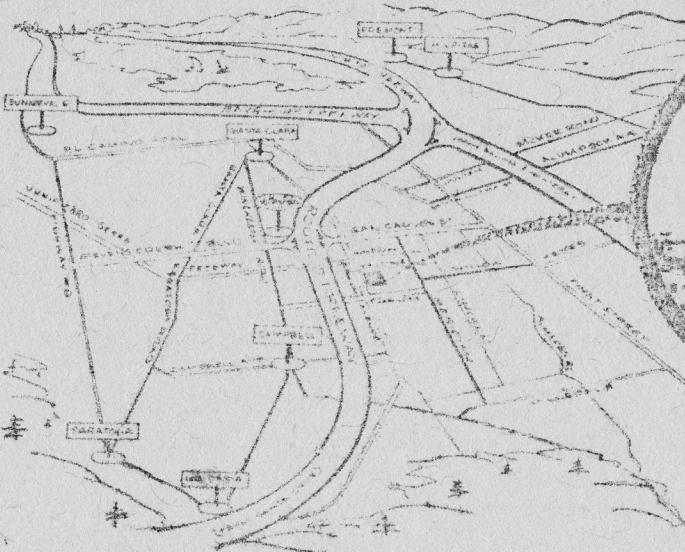
*The photo at the top of page 57 in the CQ article is reversed...so use a mirror. Hi!

Would you like to listen to OSCAR 6 and 7? Well sir, there is a classy ORBITAL DATA CALENDAR available.

In cooperation with AMSAT, Skip Reymann W6PAJ has published an AMSAT-OSCAR orbital data calendar containing all orbits for 1975 for both AMSAT-OSCAR 6 and AMSAT-OSCAR 7. Designed so that it may be hung on the wall (in the living room, no doubt), the calendar includes information on the operating schedules and frequencies of both spacecraft, and also the telemetry decoding equations. Also included is step-by-step information on how to determine times of passage of the satellites. The orbital data calendar is available postpaid for \$3.00 U.S. funds or 20 IRC's. Overseas orders will be shipped airmail. Payment should be made to: Skip Reymann W6PAJ, P.O. Box 474, San Dimas, California, 91773. All excess receipts over costs will be donated to the space program. Via 73 Hotline and CCRC Circle.

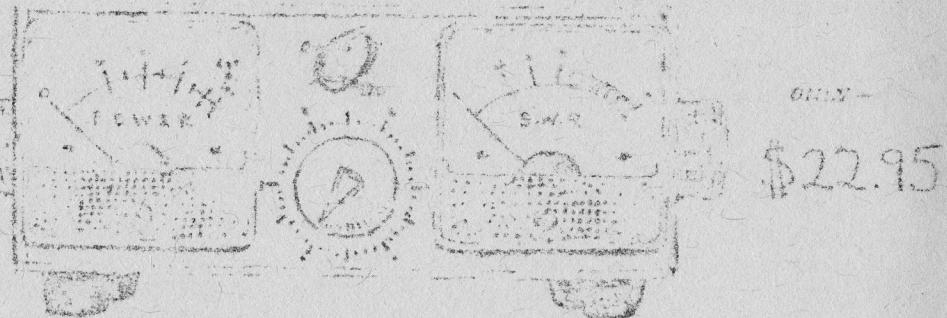
SAVE YOUR MONEY! Yes. Amateur radio license fees have gone to \$4.00, straight modifications to \$3.00 and duplicates to a mere \$2.00. Overpayments not refunded.

This issue of PAARAGRAPHS was typed on March 23 whilst listening to Bax, Debussey, and Holst on KDFC, the only decent radio station in the Bay Area. Right!



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