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MENLO PARK, CAL.
94025

AFFILIATED CLUB



AMATEUR RADIO
STATION W6OTX

VOL. XIX

1975

PARA GRAPHS

PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

MENLO PARK CIVIL DEFENSE RADIO CLUB, K6YQT

Feb. 75

PAARA PICKIN'S ANNOUNCEMENTS NEWS GOOD STUFF
OUR NEXT MEETING: will be Friday, February 7, 1975 at -- -
 7:30 PM in the Menlo Park (w)Reckreation Center located
 over there near the Library and Police Dept., got it?
THE PROGRAM: is a Real Goodie. WE'VE GOT Bob Melvin,
 W6VSV, the UHF society Director, who will fill us in
 on Antennas, Measurements, and Antenna Measuring Com-
 petitions. While this is mostly VHF/UHF, don't forget
 it's all the same for the HF bands too. Want to find
 out all about Gain, Directivity, and Front-to-Back
 Ratios?? Come to the next meeting and learn about the
 most important part of your station: the antenna!!!

Coffee Cake Cookies Tea Raffle Eyeball QSO's Gonk
 *****Come One****Come All*****

THE PAARA Board of Directors and other interested personages
 will meet in the usual semi-mobile well-oxidized and
 granulated W6CIX Trailer, with nice juicy letters in
 loving Valentine Red splashed all over the side. Date
 is Wednesday, Feb. 12, 1975 at the grand old time of
 7:32 740 pm local time. Located in the SRI parking
 lot 332 Ravenswood Avenue, in Menlo Park.

WELL Sir, have you been checking into the PAARA net? Members
 who do report a 52% increase in sleeping ability and
 a 45.7% increase in Virtue and Patience. Do you need
 more virtue?? Yes! Then join our semi-sane group on
 grip-to-gob AM (shoddier modes like FM sometimes allowed
 but above statistics are drastically reduced) on Monday
 nights on 145.24MHz. We begin around 8:07 PM and end
 up sometime later, usually much. (?)

How would you like to have some fun in gambling and always
 come out ahead? PAARA offers this Golden Opp'ty for
 someone of superior intellect: Be the Official Raffle
 Runner, imbued with the powers of selecting prizes,
 tearing tickets, and collecting Money! (Sorry, WE get
 to keep the loot). Does this idea make you Twitch All
 Over with delight? Then let Fred Canham, Ed Fairbanks,
 or Ye Noble Editor know at the next meeting, via the
 PAARA net, or by the wonders of Ma Bell. Do It!!

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

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NUMBER 2

FEBRUARY 1975

PAARA AND MENLO PARK CD RADIO CLUB OFFICERS:

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

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1. MEMBERSHIP INCLUDES PAARAGRAPH SUBSCRIPTION
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4. TRY TO PAY ON A CALENDAR YEAR BASIS

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SEND ALL YOUR ARTICLES, COMMENTS, PROJECTS, STATION NEWS,
EXCITING EVENTS, OR OTHER GOOD GONK TO: RICK FERRANTI
WA6NCX 1234 SANTA CRUZ AVE MENLO PARK CA 94025

(415) 324-1539

REPORT OF THE PAARA/MENLO PARK CD RADIO CLUB MEETING 1/10/75
Meeting held in the Menlo Park Recreation Hall in Menlo Park.

In the business meeting a motion was made, seconded, and approved unanimously that contingent upon the approval of Stan-ford Research Institute, Silent Key W6MFN's tri-band antenna and rotor be purchased for \$165.00 and mounted on the Steam Plant at SRI, near the Trailer.

Gary Perazzo, K6LVJ, was the speaker for the evening. The CD movie entitled "Earthquake" was shown by Jim Groenke, WA6ABQ. It is a "scary" film about the earthquake in Southern California. Gary was then introduced as the new Assistant Radio Officer for the San Mateo Operational Area. He emphasized the place for the amateur radio operator in a disaster, saying that in most communities there are adequate communications services and the duty of the amateur is to his own family first. Then he can help with the survey of damage, and help the general public with health and welfare traffic. He is NOT to take over the job of policeman or fire-fighter.

Gary then detailed the S.M. County's Civil Defense Set-up. Sometime soon they will monitor only the 145.49 mHz AM frequency and be able to answer calls on that freq. They will only call on the Repeater Freq. of 146.25 in and 146.85 out, on FM. At a later date sometime, when the various peninsula cities have adequate set-ups, the County will call only City representatives and not recognize those who do not represent a city. With three exceptions, San Mateo County cities are not set up to go on FM into the repeater.

After the applause for an excellent presentation (thanks for the fine talk, Gary!) the Emergency Coordinator, Hal Moore, took over and described the up-and-coming SET. Letters will be sent out that describe the event fully to AREC members.

A most interesting evening was enhanced by comments from Dr. Bob Wallace of the U.S. Geological Survey.

de Hal Moore, W6DEF, E.C.

Congratualtions to Paul Thekan, who is now licensed as WN6IJP. With Paul's crack CW operating and fine Technical knowledge, that advanced class should come soon!

PAARA ADVERTISEMENTS GOOD GONK!

Sell: Tri-band Trap Beam, 10-15-20 meters. Made of heavy duty dural tubes and Teflon traps, home built and beautiful. \$75.00

Yaesu Transceiver in excellent condition: \$350.00

Heath VTVM complete with RF probe and High Voltage probe for TV. \$35.00

Want: Plate Transformer 120/220 Primary; Secondary either bridge or full wave for 3000 volts at $\frac{1}{2}$ to 1 ampere. Trades considered!

CALL Irv Wolfe, W6HNN, at 494-1719

Steve Ross, W6HKX, over there on Arlington Way in Menlo Park, informs me in his nice note that he just picked up a beautiful Collins KWS-1 transmitter and would like to know if any other PAARA person has on on the air so he can check meter readings, etc., with them. Call Steve at 322-9859 or write him at 320 Arlington Way.

For Sale: Cleaning up shack for a new transceiver. All below is in Good Working Condition (whatever that means). Hammarlund HQ-170 all band (160-6m) am/cw/ssb receiver with multi-valued selectivity. \$120.00

HW-32A 20 meter single-side-band single bander Heathkit. Covers 14.2-14.35 mHz, 200 Watts PEP. Used barefoot,

I have worked Europe with a groundplane! \$75.00

Central Electronics Exciter 20A. Multiband, multiphase (am/cw/ssb/fm) crystal controlled or external VFO. 20 watts PEP. Looks good. \$15.00

Homebrew 80-10 meter HBR type receiver, dual conversion with 50 kHz I.F. Ideal for beginner. Will give away four years of love for \$10.00!

If interested, preferably with checkbook in hand, please call Mike Eccles, G3PPE/W6, at 415-494-3267 evenings or 408-738-2661 (ext. 60) days or if everything else fails try ESP channel #76!

HEY: does anybody have an old SCR-522 VHF Radio Set? Steve Stuntz, K6FS, is interested in a complete, preferably unmodified unit. Who got? Call him at 322-4952.

Pages 6&7

PALO ALTO AMATEUR RADIO ASSN. FINANCIAL STATEMENT
 FOR THE YEAR 1974 -- by Paul Churchill W6QRY, Treasurer

Funds on Hand January 1, 1974:

Checking Account

Savings account

Petty Cash

Total

Income

Dues Paid

Subscriptions to PARAGRAPHS

Raffle Sales

Equipment Sales

Auction

Miscellaneous

Interest on Savings

Insurance Refund

QST Commission

Advertising

Total Income

Disbursements

PARAGRAPHS

Postage

Supplies

Advance for 1975 paper, etc. (416.04)

Club Functions

Xmas 1973

S.E.T.

CCRC Dues

Field Day

A.R.E.C.

Xmas Gifts 1974

Refreshments

Club Property

Transceiver Parts

SWR meter

Generator Frame

Crank

\$ 421.60
1008.80
6.75

Total \$1437.15

304.00
25.00
111.45
82.83
381.05

51.09
15.00
(73.09) 7.00
110.00

1087.42

200.00
16.04
16.00
93.58
15.00
35.00
18.72
16.00
9.90
90.36

4.81
22.42
32.22
25.00

Signs	(103.53)	19.08
Office Supplies, Cash box, Etc.		27.38
Raffle Prizes		99.80
W6OTX License	34.00	
DMV-Trailer license ('74&'75)	30.00	
P.O. Box Rental	5.80	
Bank Service Charge	3.54	
Insurance Premium	(152.34)	79.00
Total Disbursements		1067.65
Funds on Hand December 31, -1974		\$1456.92

Checking Account	374.43
Savings Account	1059.89
Petty Cash	22.60
Total	\$1456.92

FROM Paul K. Churchill W6QBY Tr 2surer PAARA January 20, 1975
Thanks to Paul for such a fine report.

* * * * *
A Genuine anonymous poem, submitted by W.A. Ham:

TWO METER LIMENT

The printed circuit board is fine
But does it fit the diagram this time?
And where is one part
Without any part being missed?

I wonder if the thing will trans it
When done, or should I buy a Heathkit?

I done wrote this verse

*Cause I expect the worse!

* * * * *

TEN METER BEACONS: - COUNTLESS HAM HUM, Omaha, Nebraska

DL7IGI	28.195	ZC4CY	28.180
3B8MS	28.200	VE3RMR	28.175
JAI1IGY	28.190	VE3TEN	28.175
GB3SX	28.185	DIFAR	29.000

Listen for these beacons and make some Hot DX contacts on ten!!

A GOODLY COMMENT ON THE RESTRUCTURING DOCKET de WB6GRZ
 (Better known as Terry Conboy)

...Firstly, the 2kw pep output limit is not a power increase, considered from the phone man's point of view. If you are an AM freaque, presently a 1kw imput limit exists for the carrier. With P.A. efficiency of 65%, the output carrier is 650 watts. Applying 100% modulation gives a pep of 4 times this (V^2/R with two times the voltage on modulation peaks) or 2600 watts pep! Now the Commission wants you to drop your power input to a paltry 770 watts (-1.15dB!). The poor ssb'er is allowed 1000 watts of plate meter-indicated average power input. Let's say his AB₁ linear is 60% efficient or he gets 600 watts average (call it "D.C." power if you like) output. Ask any good audio or telecommunications engineer and he'll tell you that the human voice has a peak/average ratio of typically 18 dB, not 3 dB as most 75 meter yo-yo's assume. So if our friend has a very fine linear, his pep output is 63.1 times 600 or 3.9 kw pep! (Contrary to popular opinion, there is no limit on peak power, only what your mA meter reads) Therefore, he must reduce his power 12.8 dB, down to 52.7 watts average input, under proposed rules. But of course, whose P.A. is this good, and who really avaoid some "flat-topping", and what about that super logarithmic, agc, rf clipper, alc, and speech filter hooked to the exciter? OK, you win, the real pk/avg is probably more like 6 dB, judging from 3rd order products from the normal geoducks on 160 up, and our man's pep is only 2400 watts pep. Still need a 0.8dB pad to get the average input down to 833 watts.

The FM user (not to be confused with a radio amateur) (I'm glad I didn't say that...ed!) does indeed get a healthy increase, up from about 650 watts to 2000 (9.9dB). This is probably academic, FM'ers at the legal limit are rare (in my experience).

CW and RTTY hams are similarly benefited, to which I will say "right on!". It will be very interesting to see a 2kw output RTTY P.A.! (Push-pull 4-1000's would be about right, now how to I get 3-phase 220VAC?)

(Blasted over to the next page...)

MORE JUICY COMMENTS ON THE NEW DOCKET (PROPOSED, THAT IS...)

Secondly, no-code communicators would be OK with me if a sanctuary of sorts is given to everyone else, say 1mHz on 144 and 220.

Thirdly, the added incentive to general and technician licensees is badly needed. Most technical opinions voiced on the air are blatant garbage and wivestales (spouse-tales in this liberated era). It saddens me to hear others readily accept it. The ARRL Handbook is cheap, even at \$5.50; the majority of hams could stand review or to learn it the first time.

Fourth, Who are they kidding with lifetime operator licenses? (for extras).

Enough flapjaw from me. Basically it's a good thing, in my opinion. I hope it doesn't get mashed too much in the translation to regulation.

---73, Terry WA7DOX/WB6GRZ

Ye noble Editor thanks Terry for his comments. Would like to see more feedback from other members on this proposal. It's also important to send your comments to the FCC by June 16. You need the usual original and 14 copies sent to: Secretary, FCC, Washington, DC 20554

I received a nice note from Bob Wallace in Fortolia Valley about the possibility of setting up a 75 meter freq. as well as 145.24 mHz as a meeting place for PAARA members. We already use it for the S.E.T.

Instead of starting a new net immediately, Bob suggests we check into the ASTRONET on 3885 kHz some evening. This net has a variety of activities from satellite observing to all sorts of earthly scientific studies, but it's mostly a nice group for ragchewing. There are usually 2-10 hams on any time after 8:00PM, so just calling QRZ ASTRONET on 3885 kHz any evening and you will very likely have a nice set of QSO's.

Bob has had great help from the ASTRONET during the San Fernando (1971), Pt. Mugu (1973) and Barrego (1968) earthquakes. So the group can help a lot in emergencies.

I think this is a good idea -- contact Bob, K6OL, at 851-0249 for more info. Or check in. What say gang??

PAARA BOARD MEETING REPORTJANUARY 15, 1975

Meeting held at the usual W6OTX mobile radio disaster. Present were: Ed Fairbanks W6AIN, Paul Thelton, WN6IJP, Terry Conboy WB6GRZ, Fred Canham, K6YT, Gerry Tucker, WA6LNV, and Hal Moore, W6DEF. Bob Allen W6WQD and Andy Korsak VE3FZK/W6 put in a brief appearance.

Meeting called to order by the president at 1945 local time. Board decided, after some conversation on the subject, that there is no need to change the date of the annual auction and flea market which will be held October 3 at the ampx cafeteria. Plan Ahead!

Discussion: Calendar for the year. No decision made as yet but one will be forthcoming for the year.

The two meter project was temporarily suspended due to the holidays but due to popular demand it will resume full weekly operation on the usual Wednesdays.

Much discussion on the Simulated Emergency Test.

On the Club Roster: Bob Allen's land line is 493-6146. Terry Conboy's address is 1117 Lyons St. Redwood City 94061 Delbert Phillips, WA6IQQ, is a member of the Board, whose name now appears on the beautiful page 3 of this issue.

There was discussion regarding the installation of the antenna and rotor we got from Milt Donovan's estate on top of the steam plant at SRI (near the Trailer). Permission has not been granted as of yet but we will be inquiring soon.

de Hal W6DEF, Sec'ty.

The South Peninsula Amateur Radio Klub, SPARKS, is having their annual Auction on Friday night, February 21, 1975. The place is the Philco-Ford Corporation Cafeteria, Behind Bldg 3 at 3825 Fabian Way in Palo Alto, Take San Antonio Road Exit from Bayshore.

Doors open for registration at 6 pm and the auction starts around 7 pm. This year they are also having a FLEA MARKET (rah!) at \$3.50 per table.

Any inquiries concerning this fun event should be directed to Dick Sherman, K6EIH, at (408) 255-3303 (home).

Be sure to look for Ye Noble Editor, who will appreciate your buying his Flea Market Gonk. Buy up for our auction in Oct!!

FLASH!! AN ORIGINAL PAARAGRAPHS CIRCUIT!!! de WB6GRZ

Submitted by Terry Conboy

Submitted by Jerry Conboy
Here's a handy ten minute timer for those of us who are too longwinded at the mic or keyboard.

Resistors are 10%, tenth watt or more.

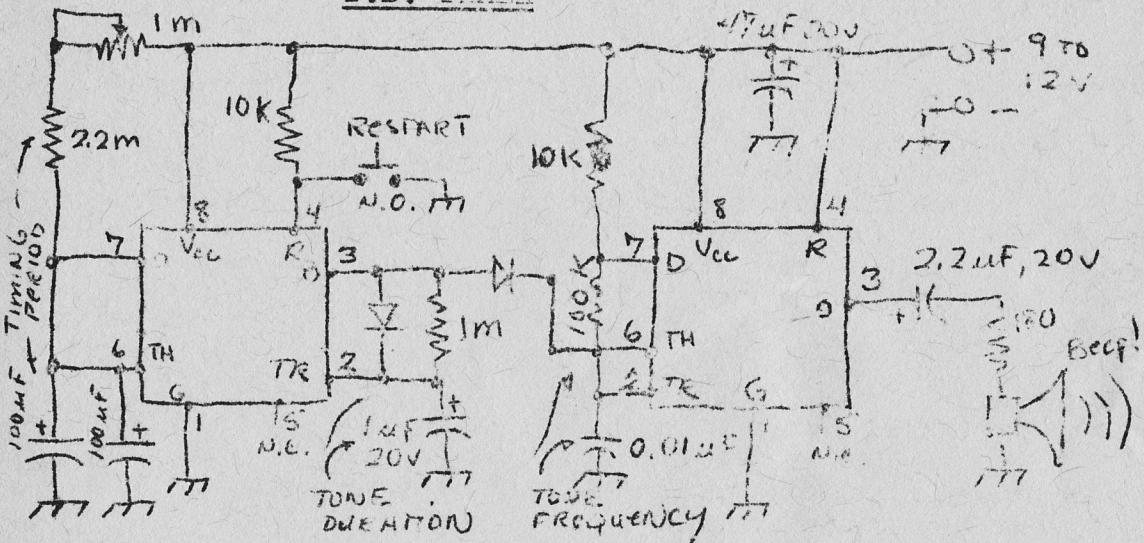
IC's are 555 timers (2) or 556 (Dual, different pins)

100 uF caps should be tantalum if possible. 20 volt

Other caps, any old gonk is O.K.

Diodes 1N914 or anything with PIV greater than 20 v.

I.D. TIMER



Period adjusted with 1 meg pot to 590 seconds

Tone (about 1 kHz) duration is one second (or as long as 'restart' is closed).

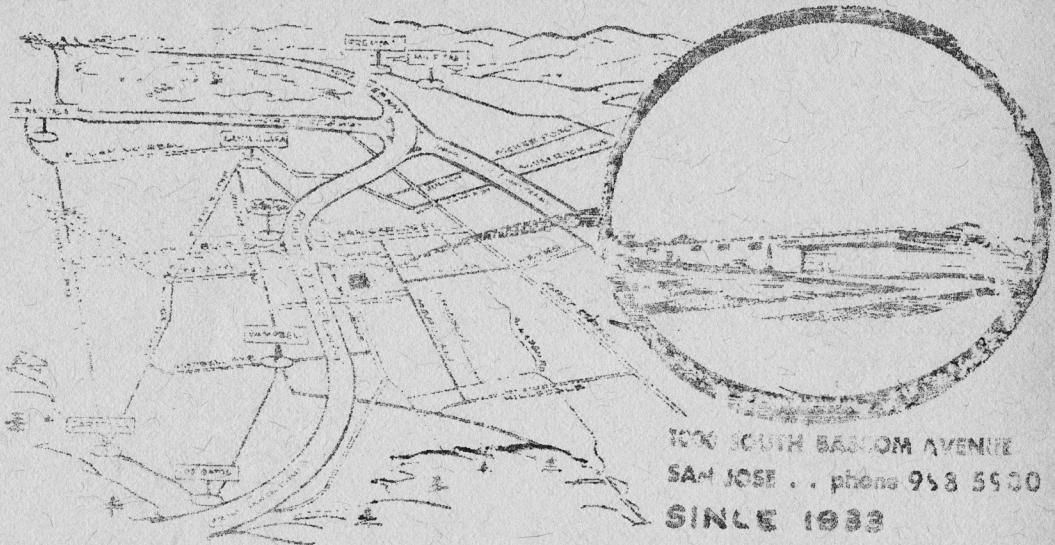
Output variable with 180 ohm (100 ohm minimum). If more level needed use 500 ohm to V.C. transformer).

If your 100 uF caps are too leaky, 2.2 megohm may need to be reduced.

Output will occur every ten minutes after restart is released ... it is self resetting.

Thanks for the fine circuit Terry! Anyone else with a goodie?

This issue of PAARAGRAPHS typed during the week of Jan 20-25,
a True Fact which should not go unnoticed.



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