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To:

Andy Korsak VE3FZK/W6
504 Lakemead Way
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MENLO PARK, CAL.
94025



AFFILIATED CLUB



AMATEUR RADIO
STATION W60TX

VOL. XIX

1975

PAARA GRAPHS

PALO ALTO AMATEUR RADIO ASSOCIATION, INC.

MENLO PARK CIVIL DEFENSE RADIO CLUB, K6YQT

NOV. 75

OUR NEXT MEETING: will be on Friday, November 7, 1975,
in the lovely, beautiful Menlo Park Recreation
Center, near the library and the Police station.

THE PROGRAMME: All about how NOT to get lost! we've got
Chuck Jackson WN6HES, assisted by our own Andy Korsak
(VE3FZK/W6) to tell us about the NASA-SRI development
of automatic radionavigation equipment. The title
of the talk is "Radionavigation: Past, Present and
Future," which will include a demonstration of gear
that plots the course of your flight as you fly. WITH
a slide presentation and other good-taste information
on the very latest in navigational aids. Includes
Very Low Freq. stuff, DME's, and lotsa genuine gonk.
Re-freshments -- Cookies -- Raffle -- Ham talk ** Coffee
Bring a Friend!!!

AVERT DISASTER! Rumour has it that there will be an attempt
by a local radical CB organization to disrupt PAARA
operations by actually moving our W6OTX "mobile"
trailer a distance of 6 feet, 5½". This will, of
course, result in the immediate cessation of its
existence, since the miserable thing has enough
trouble staying together whilst absolutely still.
Date and time of this Underaround event is the wed.
following our meetin, November 12, at 7:32 PM. HALT
this utter catastrophe and come to the Board of
Directors meeting which will follow thereafter.

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THE PAARA net meets every Monday night on TWO (count 'em, 2)
frequencies at one (1) & the same time. For the
Amplitude modulators there we are on 145.24 mHz;
while the FM'ers are deviating away on 147.45 mHz.
This happens all at once at 8:07 PM local time, and
continues as long as you do. Come join us.

CONGRATS go to Andy Korsak, VE3FZK for his recent acqui-
sition of a Grand Piano, and for getting his name
mentioned two times on the same page in this issue.
CONGRATS also go to Dick Laird, who just became WA6BQY
(advanced) from WN6BQY. 11 weeks of process time!
Let's hope to hear you on Monday nites, Dick.

PAARAGRAPHS is the official organ of the Palo Alto Amateur
Radio Assn., and the Menlo Park CD Radio Club.
Volume 19 _____ Number 11 _____ November 1975 _____

PAARA and Menlo Park CD Radio Club Officers:

President: Fred Canham K6YT
 Vice President: Andy Korsak VE3FZK/W6
 Secretary: Terry Conboy WB6GRZ
 Treasurer: Paul Churchill W6QBY
 Trustee of W6OTX: Fred Canham K6YT
 Trustee of K6YQT and M.P. Radio Club Officer: Bob W6WQD
 Property Custodian: Ed Fairbanks W6AIN
 --*-*-*-----*-*-*-*-*

Board of Directors:

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 Members: Paul Thekan W6IJP Del Philpott WA6YOQ
 Andy Korsak VE3FZK/W6
 Terry Conboy WB6GRZ
 Ed Fairbanks W6AIN
 Jerry Tucker WA6LNV
 --*-*-----*-*-*-*

POLICIES:

1. Membership includes PAARAGRAPHS subscription.
2. Dues are a mere 4.00 a year.
3. \$1.00 will get you PAARAGRAPHS for an entire year.
4. Try to pay on a calendar year basis, please.

SEND Money, cheques, cash, coins, junk, etc., to:

PAARA P.O. Box 911 Menlo Park, Cal 94025
 --*-*-----*-*-*-*

*****WONDERFUL PEOPLE AT OR BY PAARAGRAPHS*****

Editor-in-chief: Richard Ferranti WA6NCX

Cover design: Bruce M. Rapp

Labels and Mailing: Ed Fairbanks and Paul Thekan

Printing: Due recognition will be given next issue.

Main Mobileer, Frequency Modulator, and Crystal Supplier:

Dave Waters, WA6AWZ

FOR GOODNESS SAKES SEND ME STATION NEWS, PROJECT NEWS,
 ARTICLES, AND OTHER GONK TO RICK FERRANTI WA6NCX
 1234 Santa Cruz Avenue, Menlo Park, Ca 94025
 (415) 324-1539 or 246-1400 Rm 1001

PAARA PICK'N'S *** ANNOUNCEMENTS AND OTHER GOOD STUFF ***

Many thanks go to all who helped out at our latest AUCTION on October 3. Lots of goodies were shuffled around and there was quite a turnout of interesting people.

Paul, W6QBY, our financial wizard/treasurer, reports:

Commission from auction sales:	\$92.75
Raffle tickets and Flea Market tables	105.15
Flea market sales of donated gear	25.01
Refreshment donations	25.27
Sub-total	<u>\$248.18</u>
Less cost of refreshments	30.09
Auction NET INCOME	<u>\$218.09</u>

Postage is due to go up go up 30% after Christmas. Our cheap \$1.00 subscribers can expect Dire Rate Increases as the money just barely covers postage now, leaving none for the Editor's Tsingtao beer fund. SO pay up for 1976 right now before we do something about it and increase China's export rate by 32%.

The SPECS net (W6ASH) will assist in the March of Dimes Walkathon in November. If interested contact him, the Specs net on 146.00 MHz Monday at 7:45, or Fred K6YT.

The S.E.T. is Jan 24-25 this year, and the 1976 DX competition is for Phone on Feb 7-8 and March 6-7; and on CW on Feb 21-22 and March 20-21.

GREEN is PAARA's color -- used to identify cables, gear, and other good stuff. Makes it easy to remember that Galway (in Ireland, natch) is Menlo Park's Sister City, and Vice Versa.

TWO illimitable members of PAARA, Mike Eccles, G3PPE/W6 and Sy Stein, WA6ROM, are participating in a series of lectures at Foothill called "Exploring the Solar System and Beyond". Ye noble Editor has been to most of the lectures and is suitably "spaced-out."

Congrats to Steve Stuntz K6FS, our new Emergency Coordinator (since Hal Moore W6DEF moved). Glad he's on 2 FM!

PAARA ADS (STILL FREE) AND EDITORIAL

FOR SALE: Heathkit gear: SB303 receiver, SB401 Transmitter, SB600 Speaker, SB630 Control console, SB200 final amp -- all prices have yet to be established on the above. Call with your offer. ALSO Heath HW-7 QRP transceiver with AC P.S. for \$65.00. Contact Stephen Kaider, K6TV, at 773 Vista Grande Avenue, Los Altos, California, 94022.

FOR SALE: Hallicrafters SX-71 communications receiver. Covers .5 to 30 MHz and 47-55 MHz, with bandsread for the ham bands. Has crystal filter and phasing, receives AM/CW/SSB and narrow band FM with built-in demodulator. Dual conversion above 4 MHz, in perfect electrical shape and very good physical shape. Has excellent sensitivity and selectivity -- really a fine receiver. With manual. \$95.00

FOR SALE: Teletype model 19 Tapeset/Teletypewriter. Absolutely beautiful condition, perfect for a mini-computer or RTTY. With table, solid-state power supply, printer, tape punch, tape reader (TD) and accessory goodies. 8 rolls of carbon-copy type paper, five rolls of punch-tape included. Communications type keyboard, works flawlessly. A 65 wpm western Union machine, switchable 20 or 60 ma loop current. Synchronous motors. You'll never see a machine like this again for ... \$85.00

Come play with this stuff before you buy! (which you will hopefully do). CALL Rick Ferranti WA6NCX at 415-324-1539 OR 246-1400 Rm 1001 weekends and weekdays respectively, any reasonable hour. Help ye Editor pay off his ICOM IC-22A.

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HERE WE GO AGAIN

Editorial

As you may have already guessed, I have resumed (till August) editing PAARAGRAPHS after a two-issue absence. During my "vacation" quite a lot transpired -- a new teaching job added to my full student load, grad school applications, and a fellowship nomination. Besides that sort of work, much has transpired in my world of amateur radio: a general consolidation of

HERE WE GO AGAIN editorial continued

gear (e.g. cleaning out the junk) with the result that I have only the SSB/CW HF transceiver and a new 2 mtr FM rig left (had to spend my income from previous sales on something, right?). It has finally sunk in that it really pays to buy the very best you can afford once and for all. One is never satisfied with second-best gear. Result: no more fighting the equipment but enjoying the conversation. One thing about FM--it sure spoils you! No drifting receivers, off-frequency stations, crummy copy, ignition noise, constant tuning and retuning. No hot tubes, either! As you may imagine, there will be a big push for our 147.45 MHz FM simplex frequency since Jerry WA6LIJ, Sy WA6ROM, Hal W6DEF, Steve K6FS, Lee WB6BJB, Dave WA6AWZ, and myself now have that capability. Let's see more people up there, eh?

My basic idea about club participation in the paper is still very much alive. You will have also noticed one less sheet (4 pages less) in this issue. Articles fill the paper--especially ones from club members. 'Nuff said, Many thanks to the people who wrote and called about my previous editorial efforts. While praise is not necessary, it is certainly appreciated!

Sincerely, Rick Ferranti WA6NCX

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TECHNICAL NOTES

de WA6NCX

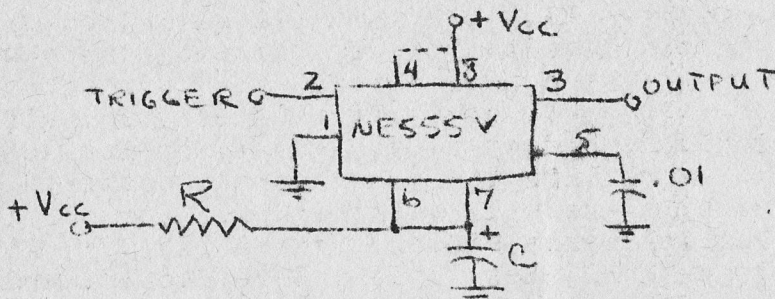
The NE-555V I.C. Super-timer is very stable with provisions for square-wave oscillator operation. The whole works is in a package half the size of a normal IC; the so-called mini-dip 8-pin package. The pin diagram is as follows:



1. Ground
2. Trigger
3. Output
4. Reset
5. Control Voltage
6. Threshold
7. Discharge
8. Vcc (4.5 to 16V)

NE-555V Timer notes, con't.

You can see that the output (pin 3) can drive C-MOS (12 V) or TTL depending on what the timer has for input-voltage. It can sink 200 mA of current by itself. Here is the basic timer circuit:

TIMER

$$T = 1.1(RC)$$

The timing length is set by R and C; R should not be less than 2.2 kilohms. The length of the timing cycle is $1.1RC$, or approximately RC for ham-type stuff. Pin 5 is an input for FM purposes, always connect it through a .01 uF cap to ground. To start the timing cycle by momentarily grounding pin 2, and the output will remain high (about the supply voltage) until the cycle is up, and it goes low again. The timing cycle is independent of the supply voltage. The reset function (pin 4) starts the whole thing over again -- even in the middle of a cycle -- when you temporarily ground it and pin 2. If you now touch pin 4 to the supply voltage things will start up again. If you don't want to use the reset function (and most of the time it isn't used) connect it to pin 8, where the Vcc comes in.

A very versatile timer--from milliseconds to hours, at 79¢ each!

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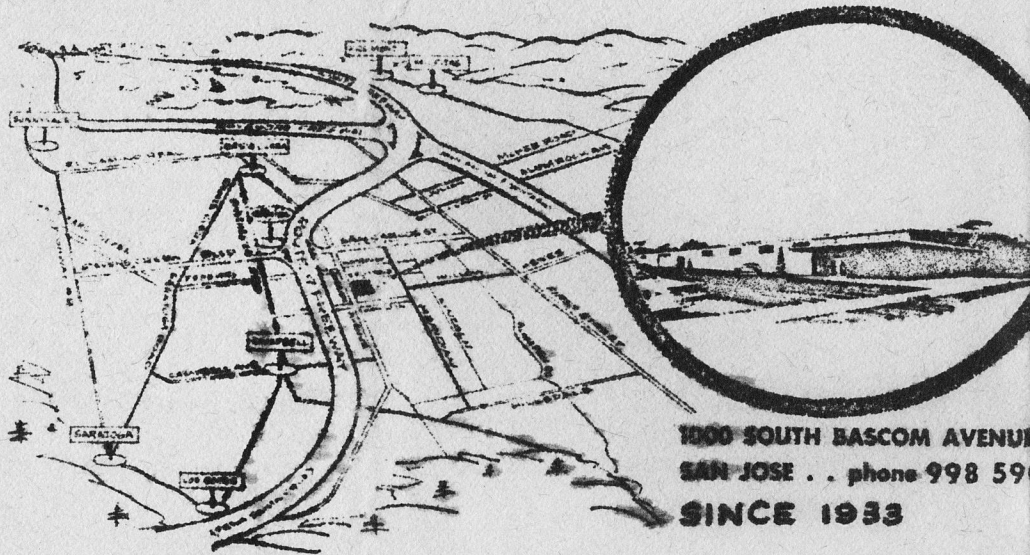
VOTE (if you are a member) for the ARRL candidate of your choice. Should be an interesting Director election!

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Thanks to Ed W6AIN, Fred K6YT, and Paul W6QBY for issue info.

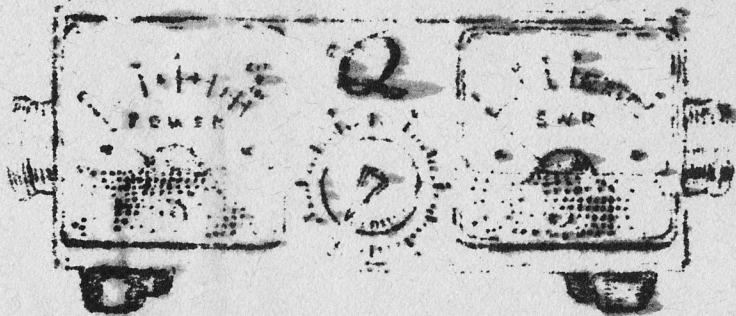
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"Eclectic musicians" note that this issue was typed whilst listening to Ravel, Britten, and Bach. One notices that PAARAGRAPHS reeks with eclecticity, no doubt!



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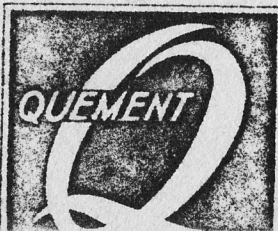
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