

BULK MAIL
U.S. POSTAGE PAID
PERMIT NO. 320
MENLO PARK, CAL.

2M TX Ght
FM Tunes Ckt

TO:

Return Requested
PAARA, P.O. Box 911
Menlo Park, Ca.
94025

Official Publication Of

PALO ALTO AMATEUR RADIO ASSOCIATION

PAARA

W6OTX

Affiliated

Palo Alto Amateur Clubs
Radio Ass'n

K6YQT

Menlo Park C-D
Radio Club

ORGANIZED FOR

PUBLIC SERVICE, SCIENTIFIC, EDUCATIONAL AND
SOCIAL BENEFITS TO AMATEUR RADIO OPERATORS.

A NON-PROFIT ORGANIZATION; INCORPORATED 1956

Meetings held first Friday each month
(No regular meeting August)

NEXT PLANNED FUNCTION

Date: Sunday 8 August 1971. **PICNIC**
Place: Memorial Park, San Mateo County,

PROGRAM: A FAMILY PICNIC !!! All Clubs partici-
pate, bring along the family and enjoy a

real good time with the members, their
families and friends. Your membership card
will get you in free. **SAY YOU'RE FROM**

PAARA OR TRI-CITY RADIO CLUB

LOCATION: ON PESCADERO RD, OFF LA HONDA RD. (HWY 84)

TAKE WOODSIDE RD. TO SKYLINE, CARRY ON TO LA HONDA
JUST AFTER LA HONDA TURN LEFT ONTO PESCADERO RD!

R
A
R
A
G
R
A
H
S

START
10:30 AM

-fun, games
-bring own
stuff, food

SEE MAP
PAGE 7

Latest
Scoop

Vol, XV
No 8
August 71

OFFICERS

ADMINISTRATIVE

Pres: Andy Korsak, VE3FZK
 V Pr: Bob Allen, W6WQD
 Secty: Lee Zalaznik WB6BJB
 Tres: Vance Wardlow, W6FLE

APPOINTMENTS

VP PR: Jerry Starkey, WA6LIJ
 CCRC Rep: Milt Donovan W6MFN
 CD Eqpt: Bob Allen, W6WQD
 Asst " : Glen Baker, W6UOK
 TVI Com: Glen Baker, W6UOK

BOARD OF DIRECTORS

Chmn: Andy Korsak, VE3FZK
 Secty: Lee Zalaznik WB6BJB
 Membr: Glen Baker, W6UOK
 " Hal Moore, W6DEF
 " Vance Wardlow W6FLE
 " Ed Fairbanks W6AIN
 " Gerry Laxson W6OPA
 " Clyde Griffin WA6CBW

Editor: Vance Wardlow, W6FLE, Phone 854 6064, PO Box 911 MP

SUPPORT YOUR CLUBGET INVOLVEDPAY YOUR DUESPARTICIPATEBECOME A PARTICIPATOR

For an application for membership call or write for a
 Application For Membership to P.O. Box 911, Menlo Park.

Membership includes a subscription to PAARAGRAPHS and all
 priveleges of the Association. Cost is \$4 per year on an
 annual basis. Subscription to PAARAGRAPHS only costs \$1.

 DON'T MISS OSCAR PACKAGE FLY-OVER
 FUTURE PROGRAMS see PAGE 18

Date: Friday 10 September: OSCAR - A discussion of the many
 facets of the OSCAR program. Andy Korsak will have
 a presentation set up to give us all the latest
 information on this facinating program. (1 week ahead
 due to Labor Day weekend holiday)

Date: Friday 1 October: AUCTION - Plans are proceeding
 for the biggest and best auction yet! Fred Cahham
 and Lee Zalaznik are beginning to get down to details. If
 you have anything to sell get in touch with them
 and arrange for your getting it to the sales floor.
 We need storage space - if you have spare room let
 Fred or Lee know. No auction item valued less than
 \$5 will be put on the block. Smaller items must be
 handled by the owner. 10% of sales go to the Club.

REPORT OF 9 JULY MEETING

3

Being away on some very personal and important business I will have to make do with some sketchy outlines of what went on at the meeting last month. Here is the best I can make of it:

After much speculation as to whether Larry Reed, W6CTH, was going to make it or not it turned out he was there with bells on. Larry brought along a tape recorder and all the receiving equipment. He setup a demonstration of Slo-Scan amateur TV.

By recording the transmission on the tape recorder he was able to play back the TV transmission and thus get an excellent picture. By use of a long decay screen on the picture tube he was able to give a fine demonstration of just how good pictures may be on ATV.

Of course the pictures are not animated since they each take some time to record. However they are clear and concise.

Larry pointed out that there is a lot of interest in ATV in the Bay area. There are many hams doing fine work on this type of transmission. Andy Korsak, VE3FZK, has for some time been trying to get some interest worked up in the Club. He has several pieces of equipment which he

has acquired from various sources and will loan or sell to anyone interested in getting started in this most interesting phase of Ham communications.

Some of you may remember that we had a fine demonstration of ATV away back in February of this year. Frank Foge, K6EOS, set up a fine array of ATV equipment and gave us the dope on how to get into the game. He has a fine and very simple circuit which really works. And it is animated TV - on 432mhz.

Andy Korsak has all the dope and will be happy to give anyone all the info on how to get in touch with Frank. This looks like a fine way to get a few PARTICIPATORS into the stream of activity.

CONDOLENCES

It is with the deepest regret that I must announce the passing of one of our most outstanding members. David Porter Baker, W6WX, one of our most active and dedicated members passed away wednesday 21 July. Cause of death was a cerebral hemorrhage suffeded in the middle of the night. Dave was Civil Defense Radio Officer for Menlo Park, doing an outstanding job. He was a dedicated Ham and a member of

David P. Baker, W6WX, cont'd

several of the most active Clubs in the State and was a real PARTICIPATOR. Dave gave of himself in every way possible to help and assist others in the Ham Fraternity.

Dave is survived by his wife Jean, daughter Mrs. Nancy Harrington and 3 sons - David, Bruce and Eric. To all of them we wish to express our deepest and most sincere condolences.

Mrs. Baker selected a most appropriate burial plot for Dave - on the highest knoll of Skylawn Cemetery overlooking the wide pacific. Just a wonderful Ham location.

We will all miss Dave.

* * * * *

Got the word through Jerry Starkey, WA6LIJ, that Champion Spark Plug Co., Technical Services Dept., P.O. Box 910, Toledo, Ohio, 43601 has available for free an excellent brochure for Mobilers entitled "Giving two-way Radio its Voice". Covers suppression fundamentals; preliminary procedures; locating the source of interference; interference suppression techniques; marine radio suppression and shielded ignition. It has 16 pages. Sounds like a solution to many of our problems.

BOARD OF DIRECTORS

As announced in the last issue of PAARAGRAPHS a meeting of the Board of Directors with membership participation was held on Wednesday, 14 Jul.

It was well attended and held in the trailer at SRI. Many items were discussed including the potential for an auction this fall; the need for membership for young students without an amateur license; the need to get on with the activation of our Civil Defense organization; and plans for painting the trailer.

No final decisions were made on any of the suggestions. However Lee Zalaznik will supervise the getting together of a group to do the painting of the trailer, Fred Canham will take on the organization of the auction, Dave Baker was to get going on the C-D problem. We will now need a new Radio Officer. (Anyone interested get in touch with Vance Wardlow).

The Secretary, Lee Z., read the By-Laws as printed in PAARAGRAPHS. These are identical to those adopted in 1956

(NOTE: ALL MEMBERS SAVE THE LAST 2 ISSUES OF PAARAGRAPHS FOR THE ARTICLES OF INCORPORATION AND BY-LAWS). SEE PAGE 7 FOR FINAL PARAGRAPHS.

JOIN THE CLUB
SEND \$4 TO THE TREASURER FOR AN APPLICATION FORM. GET IN ON THE FUN. BE A PARTICIPATOR.

WELCOME ABOARD NEW MEMBER

John A Cameron is one of a fine group of young fellers who are on their way to being up and coming hams. He has a fine set of receivers and is going stong on his code speed. John joins the Club with the intention of becoming a real

One of our old-timers has just surfaced from his lethargy away up there in Santa Rosa. Paul Mezzapelle, WA6NLJ, sends along greetings to all members and invites us all to pay him a visit at 959 Danbeck Ave., Santa Rosa. Give him a call on 528 0117. Paul is on the air with 18 watts on 80. Get in touch. 73 Paul.

PARTICIPATOR

* * * * *

FIELD DAY

A summary report from Frdd Canham, W6QWF, gives a fine picture of a real group of PARTICIPATORS. Each of three stations were manned by some outstanding operators. They gave their all and raked in the points. Here is the way they stacked up at each station with scores made:

STATION #1

Canham, Dixon, Vickery, Moore, Sweningse III.
Total operating time - 23:01
QSO's - 429

Note: More effort was needed on 15, 40 & 80 meters. The phone stations were handicapped by poor antennas on 40 & 80. Suggest more stations next year with team captains for each.

STATION #2

Zalaznik, Starkey, Fairbanks
Total operating time - 22:10
QSO's 265

STATION # 3

Korsak, A'len, Donovan, Griffin
Total operating time - 14:07
QSO's 81
Msgs 2

The success of the CW operations was due to the excellent operating abilities of Bob Dixon, W8ERD, and Oliver Sweningsen just home from Vietnam. FINE WORK!!!

QSO BREAKDOWNS

BAND	CW	PHONE	TOTAL
80	34	23	57
40	132	51	183
20	216	130	346
15	47	96	143
10	--	--	--
2	--	56	56
	429	356	785

Of 14 operators participating all were AREC members.

Total QSO's 785; mult.2=1570
Bonus points: Emerg Pwr = 300
Publicity=50; Msg orig = 50;
Msg relay =50. TOTAL 1975
for 1971

FOR SALE

MOSLEY TA33 TRI-BAND BEAM.
VERY GOOD CONDITION, USED LESS
THAN TWO YEARS, COMPLETE WITH
INSTRUCTIONS. \$45.00.

John Fogg, K6AO, 851 1806

Hey did you see that fine
write-up in the MENLO-ATHERTON
RECORDER on our Simulated Emer-
gency Test? If not you should
look it up - a fine descrip-
tion of the activities. We must
give Hal Moore, W6DEF, a big
pat on the baek for getting
the news out to where it will
do the most good. FB Hal.

PARTICIPATORS

A great big had to those
who participated in the 4th of
July parade in Redwood City.
The following made it possible
to maintain communications all
along the parade route:
Glen W6UOK, Bob K6UKF, Frank
WA6QDC, Al W1GBN/6, Bill WA6VGR,
Ralph WB6HIX, Mike, WA6AIX,
Hal W6DEF. And a big had to
Dick K6ANN and Ken K6DRN who
operated the base station
W6WWJ/6.

A fine demonstration of
real community spirit. Our
congratulations to the whole
crew and their hlepers.

JOIN THE CLUB - BECOME A

PARTICIPATOR

GET IN ON THE FUN AND ACTION

SEND FOR APPLICATION PO BOX911
Menlo Park

SAN MATEO COUNTY FAIR

When you take your family
to the Fair this year be sure
to look up the Amateur Demon-
stration booth. The San Carlo
Club is putting it on and do-
ing their usual bang-up job.
Go on in and have an eyeball

QSO

Another couple of real
determined youngsters have
shown up in Michael Sinke-
witsch and Susan Gordon. They
are both in there pitching fo
a general license. Hal Moore
got them going on the "On-the
Air" code practice. Provided
a receiver to get Susan on
the air.

ATTENTION OLD FRIENDS

Sharon Scheppe, WB6FME, will
have her picture in the Octob
issue of QST. Sharon recently
graduated from Foothills Coll
ege. She deserves our very
sincere compliments.

I
N
S
T
A
N
T

C
O
M
M
U
N
I
C
A
T
I
O
N
S



Telephone

Telegraph

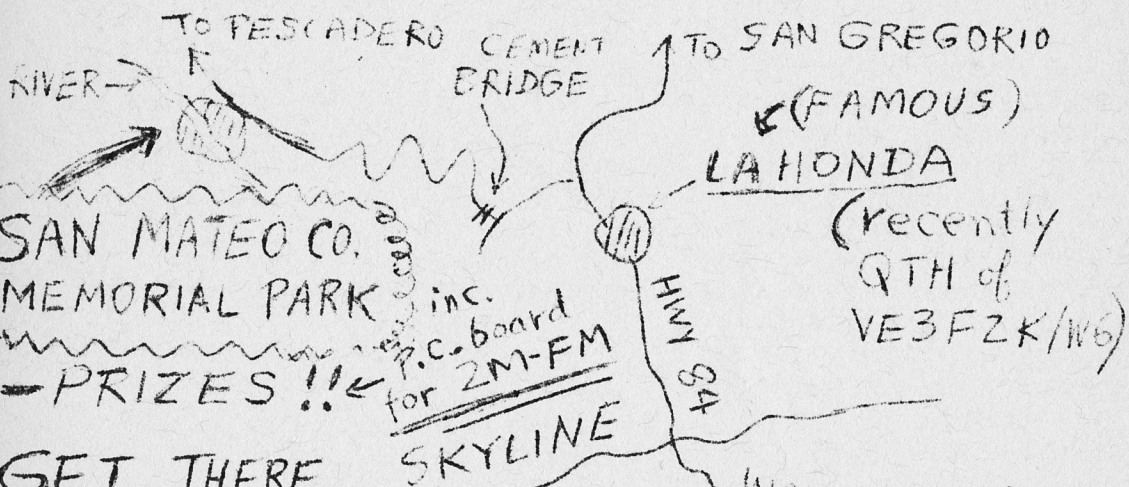
TELL-A-WOMAN

JOIN THE CLUB- HAVE FUN

Aug 8 P.7

PICNIC LOCATION

- IT'S A BEAUTIFUL SPOT
- COME OUT WITH THE XYL & Harmonics
- SWIMMIN' HOLE! FISHING!



GET THERE

EARLY

(10:30)

FOR FUN & GAMES

- HIKING
- BARBECUE (bring beef plates etc)
- LOAFING
- EYE-BALL QSO's

& WHATEVER YOU WISH!

- BRING FRIENDS esp. HAMS

Oliver Sweningsen III,
 WA6QGW, RECENTLY BACK FROM
 VIETNAM, is tackling the prob-
 lem of making DX contacts with
 a vengeance. He has recently
 installed a 6 element 10 meter
 and a 6 element 15 meter yagi
 antennas on the top of the 60
 foot tower in his dads back
 yard. To get them up he had to
 take down Dads 3 element 20,
 3 element 10, and 6 element 2
 antennas. All went well until
 a hangup developed in the
 tackle in taking down the 20
 meter job - then BANG - it all
 fell away! ! Ended up with
 a well bent beam! ! Anyway
 he now has the 10 and 15 ele-
 ments up and working great
 guns. Good DX Oliver and we
 all hope you have many exotic
 QSO s.

* * * * *

TVI

An in receipt of two FCC
 reports of TVI from a local
 ham. Hope he has been able to
 get things cleared up. However
 I sent the two reports to our
 highly efficient TVI expert,
 Glen Baker, W6UOK. Am sure
 Glen will get things worked
 out to the satisfaction of
 all concerned.

* * * * *

Congratulations to the new
 editor of the FOOTHILLS paper
 FOOTPRINT. Bob Bly, W6KHB,
 stepped right into the shoes
 of former editor Jim Lomasne,
 WA6NIL, and is doing a real
 bang up job. Bob, we editors
 have common problems and can
 solve them only by hard work.
 Give me a call if I can help
 in any way. 73 Vance

ANDY GOES NORTH

SRI had a problem up north
 near Portland Oregon. They set
 up a presentation of a Paper
 by Andy Korsak at the Power
 Meeting of IEEE summer session
 Andy loaded his family into
 his camper and took off for
 the North Country. Went up
 the Coast highway through
 Fort Stevens thence to Port-
 land.

Had a fine trip except on
 the way home they stopped at
 Shasta where Little Cathy had
 a rash. She and Rosa stayed
 overnight in an airconditioned
 motel while Andy and Casey
 took a speed boat tour of
 Lake Shasta. Or to home where
 Rosa had the job of clearing
 out the bugs and gnats from
 the camper! A fine trip.

* * * * *

1971 SIERRA HAMFEST

August 14 1971

In Reno Nevada at Idlewild
 Park, on Cowan Street. Many
 fine prizes. Pre-registration
 \$7.50 (\$8.50 after 4 August).
 Payable to Nevada Amateur Rad-
 io Assn., mail to 1047 Mark
 Way, Carson City, Nev. 89701

DONOT MISS IT

* * * * *

DO YOU WANT TO CONTINUE
 TO RECEIVE PARAGRAPHS ? ? ?

IF SO
 JOIN THE CLUB

SEND IN YOUR APPLICATION FOR
 MEMBERSHIP WITH 4.00 TO GET
 ON THE PERMANENT MAILING LIST.

or send \$1 for a subscription

9

PALO ALTO AMATEUR RADIO ASSOCIATION
(PAARA)

BY-LAWS

Cont'd

Article VI. Duties of President.

It shall be the duty of the President to preside at all meetings of the corporation and to preside at all meetings of the Board of Directors. It shall be the further duty of the President to make all committee appointments.

Article VII. Duties of the Vice-president.

It shall be the duty of the Vice-president to perform all the duties of the President during his absence.

Article VIII. Duties of Secretary.

It shall be the duty of the Secretary to receive all communications that may be addressed to the club or that may be submitted to him by other officers of the club and to keep a full report of the proceedings of each meeting. He shall read all communications upon request of the President.

The Secretary shall also promptly deliver all books, papers, or other property of the corporation to his successor in office, or whomsoever the club may appoint.

He shall maintain a book listing all members of the organization.

He shall perform such other duties as may be required of him by the club or by his office.

Article IX. Duties of Treasurer.

It shall be the duty of the Treasurer to receive all dues and monies belonging to the club and pay all orders drawn on him by a majority vote of the members of the club present at a regular meeting, or at a time intervening between meetings when ordered by the Board of Directors and signed by the President.

The Treasurer shall make a complete report on all monies received and disbursed at the meeting immediately following

(Cont'd pg 1)

HALTBY SPECIALTIES CO.

1690 PLYMOUTH AVE., MOUNTAIN VIEW

PHONE: 969 0510

THE LOWEST PRICES IN THE AREA

HOURS: 9 AM to 5 PM

CLOSED SUNDAY

SURPLUS ELECTRONIC TEST EQUIPMENT AND COMPONENTS

USED AMATEUR RADIO TRANSMITTERS AND RECEIVERS, CITIZEN BAND

BUY YOUR RIG BY THE POUND!

How many watts per ounce are you getting out of your set-up? Weigh it in!!!

We have a tremendous selection of the finest of components, parts, cabinets, condensers, switches, phone jacks, plugs, etc.

BUY IT BY THE POUND

AND DON'T FAIL TO LOOK OVER OUR FINE SELECTION OF ALL SORTS OF THE VERY BEST OF TEST EQUIPMENT AND COMPONENTS IN OUR DISPLAY ROOMS INSIDE THE SHOP.

OUR SHELVES ARE LOADED

WITH EVERY TYPE OF ITEM YOU MIGHT NEED FOR THAT SPECIAL PROJECT OR EXPERIMENT

HALTED SPECIALTIES CO.

¹S

CENTRALLY LOCATED FOR YOUR CONVENIENCE OFF THE BAYSHORE IN MOUNTAIN VIEW

AT 1690 PLYMOUTH AVENUE.

ARE YOU LOOKING FOR A SWAP UP TO BETTER GEAR?

TALK TO HAL - HE WILL MAKE A DEAL WITH YOU THAT WILL SOLVE YOUR PROBLEM

IF YOU ARE SHORT ON CASH - USE YOUR CREDIT CARD

THERE IS NO BETTER PLACE TO FIND THAT HARD TO GET PART OR REPLACEMENT FOR YOUR DEFECTIVE EQUIPMENT. OURS IS THE LARGEST SUPPLY OF SURPLUS EQUIPMENT SOUT OF SAN FRANCISCO. IF WE DON'T HAVE IT JUST GIVE US THE SPECS AND WE WILL KEEP AN EYE OUT FOR YOUR NEEDS. FOR PERSONALIZED SERVICE JUST DROP IN ON --

HALTED SPECIALTIES CO.

YOU WILL BE ASTOUNDED AT THE VARIETY OF EQUIPMENT WE HAVE PUT OUT FOR DISPLAY AND HAVE AVAILABLE IN OUR DISPLAY ROOMS, AND YOU WILL ALMOST CERTAINLY BE ABLE TO FIND THAT PART IN OUR EXTENSIVE SUPPLY OF SPARE PARTS IN BINS.

COME ON IN

PAY US A VISIT

PAY YOURSELF A DIVIDEND

HALTED SPECIALTIES CO., 1690 PLYMOUTH AVE., MOUNTAIN VIEW CA, Phone: 969 9510

BY-LAWS, continued

termination of a quarter, namely 31 March, 30 June, 30 September and 31 December.

He shall perform such other duties as may be required of him by the club or his office.

Article X.

The By-Laws of the corporation may be amended by a three-fourths vote of the membership after due notice as provided herein. Proposals for amendment shall be submitted in writing at a regular meeting of the corporation and may not be voted on until the next regular meeting.

Motion to amend the By-Laws of the corporation made at any regular meeting shall be mailed to each member at least fifteen days prior to the next regular meeting, at which time a vote will be taken. Votes of absentee members may be exercised by written proxy.

Article XI.

In any question coming before a meeting for which no provision has been made in the articles of incorporation and by-laws, the officer presiding over the meeting shall be governed by "Roberts Rules of Order".

THE END

* * * * *

All members should save June, July and August issues of PAARAGRAPHS which have complete ARTICLES OF INCORPORATION and BY-LAWS of the PALO ALTO AMATEUR RADIO ASSOCIATION, INC. duplicated for your assistance and information.

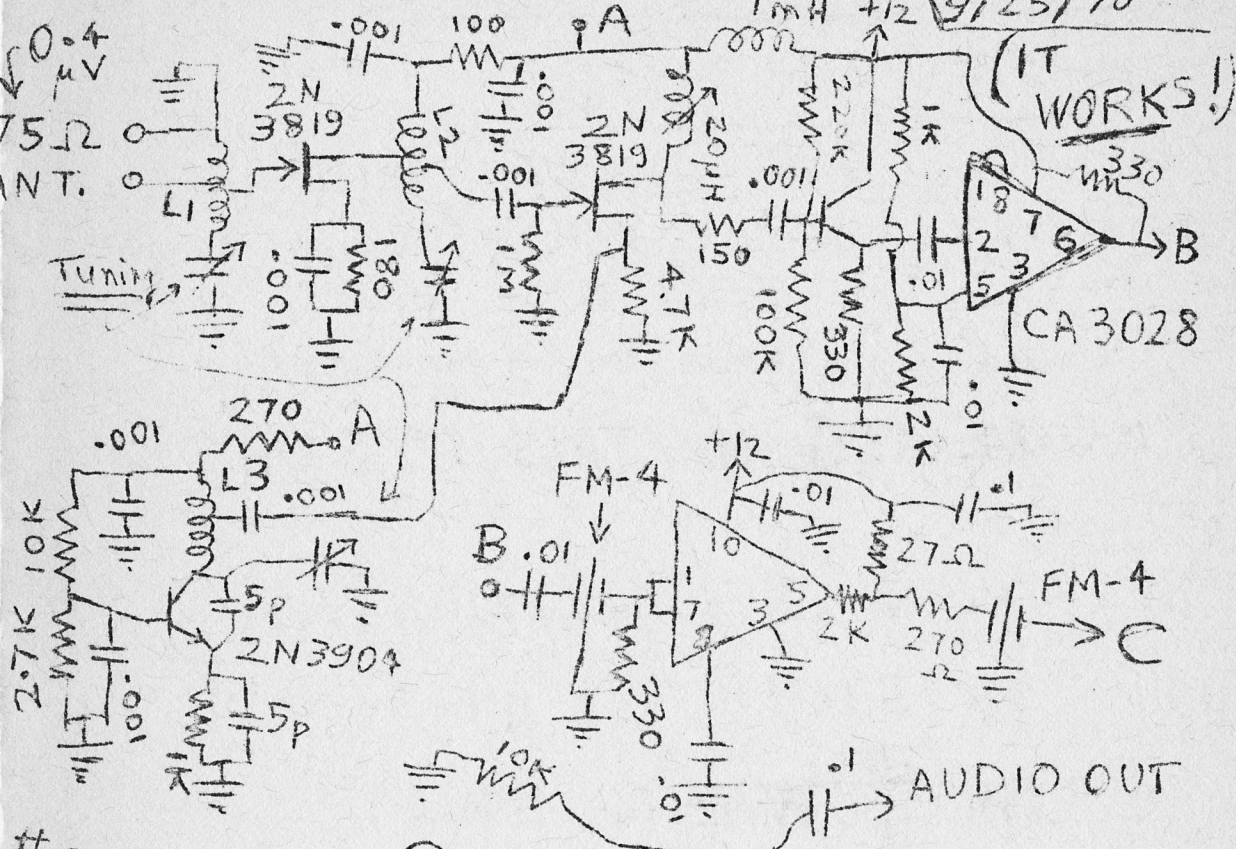
One of the purposes of duplicating these basic documents is to provide all members with help and guidance in the participation in the affairs of the Club. Attendance at the Regular meetings and the Board of Director meetings will provide each member with assurance that his Association is providing him with the greatest benefit possible. Attendance will also assure that a mutual benefit will result from the association of members with each other.

BECOME A PARTICIPATOR

FM TUNER with PLL (NE 560)

Designed by Wayne Ryder, W6URH, Menlo Park

9/25/70



(IT WORKS!)

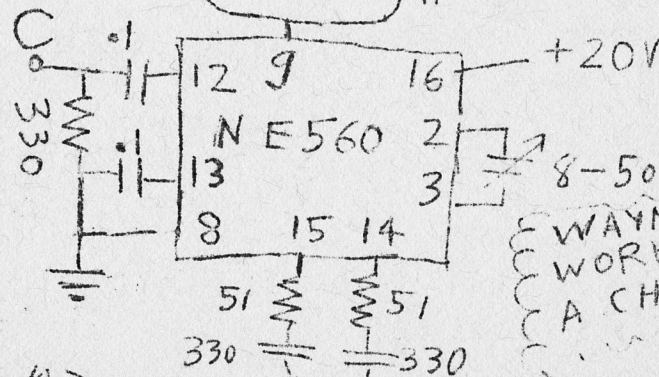
CA 3028

FM-4

FM-4

AUDIO OUT

- #22 WIRE
- 1/4 DIA
- L1 3T TAP 1/2, 1/2T
- L2 3T TAP 1/2T
- L3 2T TAP 1/2T
- FM4 is CLEVITE - GOULD



8-50
WAYNE'S LIKE WORKS LIKE A CHARM!

CERAMIC FILTER

Andy, VE3FZK, contact them for \$2.50 or less if buy many

CALL ANDY for more info 854-2759

AT P-19

RED JOHNSON

ELECTRONICS

YOU CAN GET BARGAIN PRICES
ON MANY ASSORTED PARTS YOU'LL
NEED FOR THE 2-METER AND
FM (BROADCAST) PHASE LOCK LOOP RCVR
PROJECTS IN THIS ISSUE

IF YOU'RE NOT OUT ON VACATION,
BUILD THE 2-M TRF ID. OR FM RCVR.

DON'T WASTE AWAY

YOUR SPARE TIME

- BUILD - BUILD!

- IT'S A GREAT

SATISFACTION!

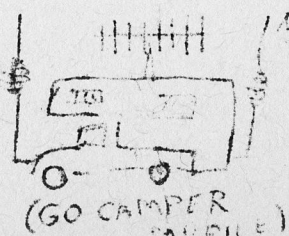
EL CANIN.
DREGON
←

440 PEPPER
PALO ALTO

OPEN SUNDAYS 10-2

M-F 8-8

SAT 8-6 326-6085



W6HDO

TWO-METER PROJECT REPORT
—Andy Korsak, VESFEK/W6

FINALIZED TRANSMITTER MODULE

Cliff Buttschardt has evolved a final design of a reproducible p.c. board for a 2-watt transmitter. Cliff reports he squeezed 3 watts out of it, but doesn't recommend everybody pushing the output device that hard. Since many members of the tri-city group showed interest in building this transmitter, I decided to make the circuit diagram and Cliff's tips on building it available to all by publishing them here. There will be p.c. boards available for as low a price as we can get -- the more guys want to build it, the cheaper they will be. So far, I got a list of 15 names at the last tri-city meeting, and before we proceed I will go to the CCRC meeting first week of August and see if we can interest members of other Bay Area clubs so we could all buy p.c. boards and parts in quantity at lower prices. So hang on, and we will start building the 2-meter transmitter together, possibly at a special "builder's night" meeting, within a month or so. What I will do first is try to get more guys from other clubs to join in on buying parts together. As a matter of fact, the best solution will be if all you guys pay me a flat sum for the parts and I'll either ask for a little more or pay you back equally whatever savings I can make by quantity buying.

VHF FM TRANSMITTER
C. Buttschardt, W6HDO
16 June 71

BUT we will AM modulate it as well in the final XCVR package.

NOTES TO VHF FM TRANSMITTER ← FM only

1. Antenna output stake terminal in such a position where coaxial shield can be returned to plus or minus supply as needed.
2. Audio ground now floating. Use jumper wire between audio input ground terminal and broad trace, or use a capacitor where AC ground only required. The former required for carbon microphones.
3. R_c used for carbon microphone button current. Use 1K initially.
4. R_b plus used when greater than 14VDC available. Applied full voltage to final. Adjust this value to provide 12VDC to remaining rail.
5. Diodes are any good junction silicon units. Try different similar pairs for maximum deviation for a given audio input. 1N645 initially.
6. Extra solder pads are provided to accomplish:
 - A. Used for trap if it should become necessary, near the base of each RF transistor. An isolated pad is also provided.
 - B. Additional capacity across crystal or crystal trimmer.
 - C. R_c for use with carbon mike only. Can be used to tailor audio response by the use of a capacitor.
 - D. R_b plus for use with supply voltages over 12VDC
 - E. Grounding clip on crystal socket.
 - F. Wiper of pot has two possible pads; Inline one fits 3/4 inch long helitrim. Second wiper pad for 5/8 dia conventional pot with shaft facing the short, nearest side of board.

- 7. Heatsink final with 5/8 dia., 3/8 high (or larger) clip on transistor
- 8. Heatsink driver with 5/8 dia., 1/2 inch high unit.
- 9. If supply voltage is over fifteen volts, (20VDC max) is used, the 2-3pf trimmer should be replaced with a bead RF choke of two turns, and the 10K resistor eliminated. This bead is a popular AMIDON item.

PARTS LIST:

<u>Capacitors:</u>		<u>Resistors:</u>		<u>Inductors:</u>	
4.7 u 15VDC	2	10 ohm 1/4 W	9	4.7 Mh iron core RFC	1
0.1 u 5VDC	1	220 "	3	Amidon bead RFC	1
9-35 p trim	1	470 "	1	7T #22 3/16 id	2
2-3 p trim	2	1K "	1	4T #22 3/16 id	3
10p CM05	2	1.5K "	1	2T #22 3/16 id	1
12p "	1	2.2K "	2	Diodes (varactor):	
33p "	1	4.7K "	4	1N645 or 10p varicap	2
43p "	1	6.3K "	1	<u>Crystal:</u>	
51p "	1	10K "	5	12 MHz fundamental, 20pf	
60p "	1	15K "	1	parallel resonant. HC-6	
100p "	4	47K "	2	<u>Stake terminals:</u>	
120p="	1	91K "	1	1/16 dia, 3/16 high	5
150 p"	3	100K "	1		
220p "	1	100K pot	1	KEEP TRACT OF YOUR	
680p disc	1	R _c and R _b	2	REVISIONS HERE.	

WGHDO

ADDITIONAL NOTES ON TRI-CITY MEETING AND PAARA BUSINESS MEETING

By Andy Korsak, WBSFZK

Since our editor, Vance Wardlow, WGFLE, just returned from his honeymoon in Hawaii, he has jumped right back into the club activities, and took it upon himself to find out what is happening and wrote it up in this paper. However, I just talked with him after getting back from my business and vacation trip to Portland, and it turns out Vance left out a few items, so I will add them in.

First, about the tri-city meeting, we might mention that Lee, WGBJE again informed the members about his monitoring WESCARS regularly on evenings out of the WCCTX trailer, both on 7255 and 3952. Participation of the membership in checking in was invited. I brought up the San Jose convention of the previous weekend and passed around information on latest ham gear demonstrated there. I also demonstrated the circuit boards developed thus far on our two meter project-namely, a converter by Bob Stein, WGNBI, the WGHDO transmitter, and the Signetics-designed IF board which is still undergoing finalization. I haven't had a chance to contact Signetics since I returned from Portland, so I can't say if the finished up the IF board design.

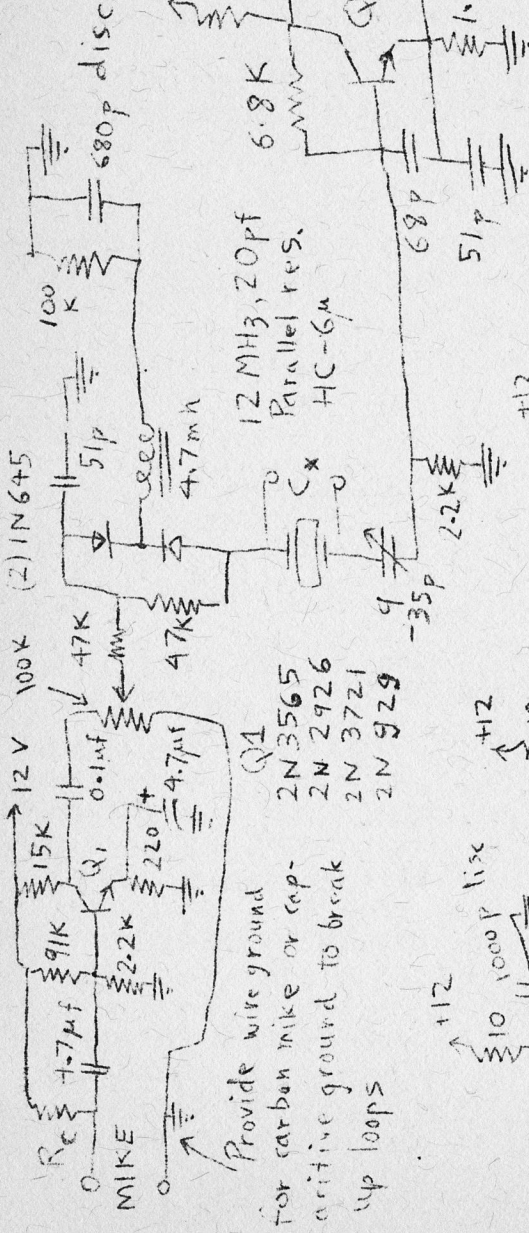
Another item at the tri-city meeting: Hal Moore, W6DEF, reported on the Redwood City July 4 parade coordination by 2-meter mobiles of the SCARS club. Glen Baker, W6UCK, from PAARA also participated.

At the PAARA business meeting, some added information: (cont'd p.14)

VHF FM TRANSMITTER (C. Buttschardt, W6HDO, June 97)

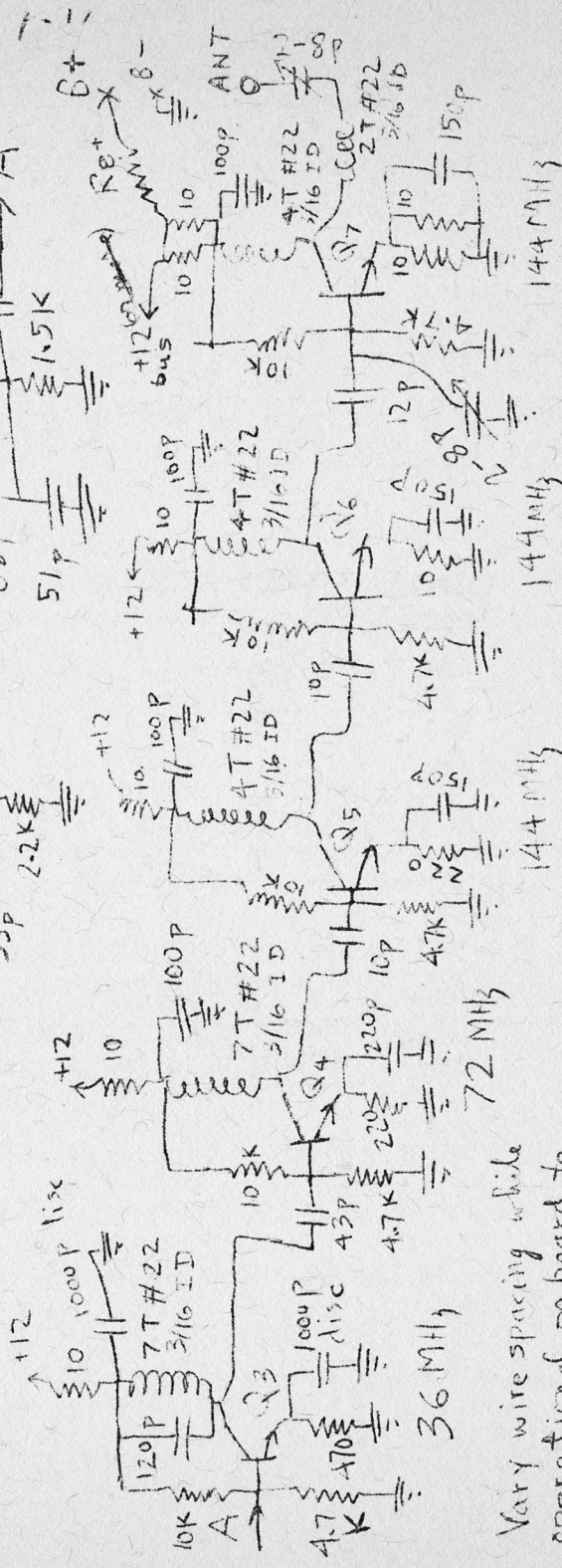
P.C. BOARDS AVAILABLE

- SAVE THIS FOR LOCATING PARTS ON YOUR P.C. BOARD



Q1
 2N3565
 2N2926
 2N3721
 2N929

Provide wire ground for carbon mike or sensitive ground to break up loops



Q2 - Q5:
 2N3563, 2N4124, 2N708, 2N5177
 MPS3563, HEP-53

Q6
 2N4427
 2N3866 (heatsink)

Q7
 2N5913
 (large heatsink)

36 MHz
 72 MHz
 144 MHz
 144 MHz

Vary wire spacing while operational on board to obtain these frequencies

I announced that SAC will permit installation of a beam on top of the steam plant next to the W6OTX trailer, not to exceed 15 ft. above the roof, which is about 30-40 ft. above ground, so that ought to help W6OTX get out of Menlo Park on the DX bands. Also, a new candidate for PAARA showed up, John Cameron, who is now working at getting his novice ticket. Glen Baker pointed out that many years ago the Menlo Park Police Department wanted to put police radios in PAARA members' cars along side their ~~VVA~~ CD gear so they could report directly any emergencies. Glen and Bob Allen are supposed to look into the possibility of reactivating the MPPD's idnterest in our cooperation.

VERY IMPORTANT OSCAR NEWS!

C S C A R A - C - B S A T E L L I T E
T R A N S P O N D E R F L I G H T T E S T

AN AIRPLANE WILL FLY OVER THE SATELLITE PACKAGE HERE THAT WAS RECENTLY FLOWN OVER THE EAST COAST. IT WILL BE FLOWN FROM LOS ANGELES TO PALM AI

C A L L C F T R A N S P O N D E R: W A 3 N D S
D A T E: -- S E P T. 25TH, -- DEPARTING ABOUT 3:00 A. M.

Sx
P. 64
Aug.
QST

- INPUT -- 145.9 to 146.0 MHZ
- OUTPUT -- 29.45 to 29.55 MHZ
- TRANSPONDER IS LINEAR SO ANY MODE POSSIBLE
- SPECIAL QSL'S FROM AMSAT IN MARYLAND WILL BE AWARDED
- THERE WILL BE A GROUND NET AT 7225 day 3060 night to provide info on plane position and sked, chaired by Cliff, W6HDC, for NORTHERN CALIF.
- FLYOVER ALSO WILL BE MADE ON SEPT. 11, BQT OVER SAN DIEGO AND PROXIMITY OF BAKERSFIELD - SANTA BARBARA AREAS SO YOU MIGHT BE ABLE TO HIT IT FROM HERE ON THE EARLIER FLIGHT AS WELL.

Note: Even if you only hear yourself at the 10M NET output, this will be valuable to report.



- Keep records of frequency on 2M used and time, as accurately as you can
- CW recommended, but AM, FM SSB will work only not as far. (also other nets) Thursdays

THERE IS A REGULAR NET NOW FOR PLANNING AND INFO FOR PARTICIPATORS, HELD BY W6HDD 8:30, 3860

SAN CARLOS BUGLE

(REPORT OF THE SAN CARLOS C.D. AMATEUR RADIO CLUB).

The last meeting included a review of our performance on Field Day. Our score was recently reported in PAARAGRAPHS by Gene Sussli. Everyone agreed it was a wonderful outing for all. There was no evidence of a generation gap. All members who participated cooperated with our Field Day Chairman, Bill Jackson. The rules set up by the Field Day Committee were followed and all the previous planning paid off.

With regard to the competition among the three clubs, it appears that the San Carlos Club earned the highest score. Unfortunately, a prior agreement had not been reached on how the clubs would be ranked and this remains to be done. We, of the San Carlos Club, advocated one of two methods to be used. One method was to simply use the highest score earned as it will be reported to the ARRL. The second method was to take the score and divide it by the number of paid members on the club roster. The latter method would provide a ratio of performance per member and hence place both large and small clubs on equal basis. We still feel that either method would be simple to determine, and fair to our clubs and allow little area for argument.

Unfortunately, the vociferous Redwood City Club prevented us from reaching an agreement before Field Day and confusion reigns. After all the noise emitted by the Redwood City Club they didn't even participate. Our one lesson learned this year is: keep it simple and reach an agreement before Field Day!

Our meeting in July included a critique on how our performance can be improved next year. It was evident that you must assume that your portable generator will fail and you have to be ready to get another one into service. The two main areas requiring much thought are: (1) The assignment of the bands to be worked by the stations participating, and (2) avoidance of interference between stations.

We improved our score from last year by about 50% and have had no trouble deciding on how to judge our own performance. Maybe the simulated emergency test has the right idea - compete against yourself and keep improving your score year after year.

Plans are still being made to start a class in radio theory for members wishing to upgrade their licenses. However, it was decided to wait until the end of the summer vacation to start the classes. Anyone interested contact Fred Heward or Gene Sussli. You will be notified of the time and place for the classroom work.

We are all looking forward to the picnic on August 3th and hope that it will be a big success. Let's get all of the families out for our one outdoor social event of the year.

Ray Allustiarti, W6JCV (← Allustiarti)
54
(Taken in shorthand by ROSA, XYL of VE3FZK)

QUEMENTS

"WHERE YOUR FRIENDS AND NEIGHBORS TRADE"

SHOP AND SAVE

THE AMATEUR RADIO FRATERNITY'S SUPER MARKET

THE MOST COMPLETE STOCK OF ELECTRONIC PARTS IN THE WEST

"BIG Q"

DON'T FAIL TO SEE THIS EXCEPTIONAL LINE

MEETS EVERY REQUIREMENT OF THE EXACTING ELECTRONIC TRADE

PRICES YOU WON'T BELIEVE

TEST SETS

MULTIMETERS

SWR'S, VOX

FIRST LINE EQUIPMENT OF EVERY MAJOR MANUFACTURER IN USA

FOR A FIRST CLASS STATION COME SEE

DON'T MISS OUR ANTENNAS

OUR SUPER MARKET CAN PROVIDE YOU WITH YOUR EVERY NEED

USE YOUR CREDIT CARD OR TRY

OUR FINANCE PLAN

QUEMENTS

1000 BASCOM AVE., SAN JOSE, CALIF. or PHONE 408 294 0464

It will pay you to pay us a visit

Select a first class

station
GIVE US A TRY