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Official Publication Of

PALO ALTO AMATEUR RADIO ASSOCIATION  
(PAARA)

W6OTX

Palo Alto Amateur  
Radio Ass'n.

Affiliated  
Clubs

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

NEXT PLANNED FUNCTION

Date: Friday 1 October 1971.

Place: Veterans Memorial Bldg, 1455 Madison Ave.,  
Redwood City, Ca.

*Changed*  
Program: A nostalgic lookback at the days when  
RADIO was young, Harry Redeker, W6NU, an  
old-timer who was there will give us a look  
at the days when vacuum tubes were a scien-  
tific marvel! He made the first public Radi  
Broadcast in Idaho - away way back there!  
Don't miss this very interesting bit of  
history, bring the youngsters.

October 1971, Vol. XV, No. 10.

W6OTX

## 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: Fred Canham, W6WQF  
 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  
 " Fred Canham, W6QWF

Editor: Vance Wardlow, W6FLE, Ph: 854 0803; P.O. Box 911 MP

## SUPPORT YOUR CLUB

GET INVOLVED

PAY YOUR DUES

PARTICIPATE

BECOME A PARTICIPATOR

For an application for membership call or write. Ask for an APPLICATION FOR MEMBERSHIP, P.O. Box 911 Menlo Park, Ca. or  
 PHONE: 854 0803

\* \* \* \* \*

FUTURE PROGRAMS

Friday 15 October: FLEA MARKET, RUMMAGE SALE, AUCTION ! ! !  
 BRING YOUR UNUSED GEAR - EVERYONE WELCOME - BUY  
 what you need. COME TO THE AMPEX CAFETERIA ON BAY  
 ROAD IN REDWOOD CITY BETWEEN WOODSIDE ROAD AND  
 DOUGLAS STREET. RAFFLE PRIZES EVERY HOUR. DOUGHNUTS  
 AND COFFEE SERVED THE WHOLE TIME - 8PM to MIDNIGHT.

Friday 5 November: ELECTION OF OFFICERS. Each Club meets  
 separately and elects their officers for the com-  
 ing year. DON'T FAIL TO PARTICIPATE. Each Club  
 needs progressive, alert and active PARTICIPATORS  
 as their officers and leaders. Get in and do your  
 part.

Wednesday 13 October: Board of Directors meet in Trailer, SRI.

# FLEAMARKET

RUMMAGE SALE

AUCTION

EVERYONE WELCOME

RAFF: E EACH HOUR

FRIDAY 15 OCTOBER

Dougnuts & Coffee

8PM

AMPEX Cafeteria

Redwood City

Bring your gear to the parking lot (Do NOT bring it in ), get your LOT NUMBERS from the Registration Desk. THEN bring your gear in. Open at 7 PM to start setting up tables.

HERE ARE THE RULES

1. Registration for AUCTION starts at 7PM. Tables for your own sales available at same time.
2. CHARGES: 10% of sale price of AUCTIONED items; (if you buy back your own item maximum fee is \$3); tables for personal sales \$3 each.
3. AUCTION material limited to 3 items (or Lots) each person.
4. Item (Lot) numbers will be issued in sequence of registration. They will be auctioned in the same sequence.
5. OWNER must attach following info to each ITEM:
  - a. His name and call sign (if any);
  - b. Description of item; frequency; power required; etc.
  - c. Condition i.e. operating; needs work; incomplete; etc.
6. Donations accepted by PAARA. These will be auctioned to help defray expenses. ALL SUCH GREATLY APPRECIATED.
7. Auction and all sales STOP AT 12 MIDNIGHT. Owner must pick up any gear not sold. BUYERS must remove all gear.



4  
REPORT ON SEPT. 10 MEETING

The meeting got right underway with the lecture by Dick Kolby, K6HIJ, who gave us a highly detailed technical description of the overall OSCAR program, as well as the specific equipment tested on the Wly-bys on Sept. 11 and Sept. 25. Although the talk was well over the heads of all but our guests from the UHF Society, it was well presented, and Dick is a jovial sort of guy who is fun to listen to. To sum up some of what he said, it turns out the OSCAR repeater being flown by us these days is quite definitely to go up in the next launch, probably early next year, but there are some other candidate packages that may go up with it. Each "OSCAR" module is a sealed box that fits into a specified compartment, with plugs for the "gesentah" and the "gesoutah" (I don't know how to spell these rather interesting expressions). Each "OSCAR" also has to pass very stringent space qualification tests. There are 6 boys in the rocket for "OSCARS", and apparently these boys are filled with an equivalent amount of lead if not used, probably in order not to foul up the trajectory computers.

Dick explained what is the relation of AMSAT (in Maryland) and OSCAR, Inc. or other groups like it. AMSAT is like a "holding company"; that is, the AMSAT people are organizing types (probably aerospace company executives who are hams) and they promote launches by NASA, motivate other groups like OSCAR to get on the ball and get packages built, push AREL to promote OSCAR-type activities, etc.

Dick pointed out that the correct procedure for calling through the OSCAR transponder this Saturday (or any time) is as you would through any repeater; that is, you don't call WA3NDS, you call CQ or station and log WA3NDS, with a list of stations called to the right in the remarks area. (I hope I got this straight - if not, somebody please let me know at the meeting).

After coffee and doughnuts, Dick continued talking about ham microwave techniques and equipment. Dick happens to be a Senior Engineer at JPL (Cal Tech) in the RF Development Group at Goldstone, and manages the Deep Space microwave test facilities. He described a simple to build a 3.3 GHz set up that any good beer-drinking ham ought to be able to build. It consists of a Klystron tube oscillator (cheap, like 7 for a buck), coupled into a beer can, with "gensintahs" and gesoutahs" and a diode mixer attached. The output of the mixer goes to an IF amplifier and FM receiver, coupled to an FM modulated oscillator that somehow locks up with the other guys TX oscillator so both ends stay on the same frequency. I did not quite understand how it will worked,

(cont'd P. 15)



BOARD OF DIRECTORS MEETING  
22 September 1971

The meeting was brought to order at 8:10PM.

Fred Canham, W6QWF, gave a report on the CCRC meeting this month. Many interesting items were brought out. The particular item of interest at this time is the proposal that the Trophy Cup established by CCRC several years ago and now in possession of the San Jose Radio Club, be made available for competition in future Field Days. This is under consideration and a decision will be made before next Field Day. Sounds real good.

COMMITTEE REPORTS:

1. No candidate has yet been found for the position of RADIO OFFICER for the Menlo Park-Atherton area.

2. Jerry Starkey, WB6LIJ, was authorized to proceed with purchasing a plaque for presentation to the San Carlos Club as winner of the 1971 Field Day competition between the 3 Clubs, PAARA, SCARS and San Carlos.

3. The Nominating Committee has taken no action. Lee Zalazanik announced he is moving to Livermore and will thus have to drop the Secretarys job. The Nominating

5 Committee was informed.

4. Jerry Starkey reported that his prospect for assistance on painting the trailer had not shown any enthusiasam. Fred Canham will arrange for a time for a work party to tackle the job.

5. The Raffle Committee reported that some funds are available from the raffle kitty for deposit in the treasury.

6. Fred pointed out that the layout at Don Johnsons for the conduct of radio calsses is equal to or better than most commercial company's. He urges anyone interested and able to go there for preparation for the license exams.

He mentioned that the San Francisco Radio Club has a number, about 65, walkie-talkies on 6 meters available to any group who can make real use of them.

There were several reports on Auctions in the Bay area. The concensus is that a Flea-Market type of sale may be the best for moving Ham used equipment.

7. The Old-Timer receiver which was donated by RED JOHNSON to PAARA was discussed. Fred will go through it and make it operable for demonstrations on capabilities of such receivers.

8. Lee will order the new Call Book by 28 Sept. (Ctd pg8)

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RADIO  
SHACK  
248 HAMILTON ST.  
PALO ALTO

PHONE: 329 8081

HOURS

HOURS

Monday thru Friday 10 to 7

SATURDAYS

10 to 6

SUNDAYS (After 10/3/71)

12 to 5

COME IN FOR YOUR FREE 1972 CATALOGUE

Paul Barry, manager of RADIO SHACK, is a member of PAARA  
He is arranging for a large number of very nice and  
expensive DICTIONARIES to be donated at the AUCTION.

drop in and see the display

OF VERY FINE STEREO EQUIPMENT, RECEIVERS AND KITS

AT

RADIO SHACK, 248 HAMILTON ST., PALO ALTO, CA. 329 8081

# FOR SALE

RECEIVER

WANTED

HEATHKIT GR64 - FINE COND'TN  
ONE OWNER  
WITH "Q" MULTIPLIER & BOOK  
\$40.00

John Cameron, 325 7737

\* \* \* \* \*

AMATEUR RADIO STATION  
Immaculate 1 owner equipment

Hallicrafters SX-101A Recr,  
ham bands plus 6/2M converter.  
AMECO Nuvisor converter for  
this receiver.

Hallicrafters HT-44 Transmtr  
(SSB/AM/CW 200W PEP) with  
PS-150 power supply, Lafayette  
Power Meter and SWR Bridge.  
TECRAFT TR-20-144 2-meter 20W  
AM transmitter with HEATHKIT  
HG-10 VFO.

Equipment comes with spare  
tubes and cables. A-1 condit-  
ion, factory specs and profes-  
sionally maintained and op-  
erated.

DISCUSS REASONABLE TERMS IF  
YOU ARE SERIOUS  
Phil: W6VQM phone 415 359 5833

YOUNG HAM WITH MINIMUM (NEAR  
ZERO) FUNDS NEEDS VFO FOR DX-  
40 OR A CRYSTAL IN A GENERAL  
CLASS PHONE BAND. ALSO DESIR-  
ES POLES FOR A MAST. WANTS TO  
BORROW A SWR METER. PLEASE  
CALL 321 6459 IF YOU CAN DON-  
ATE OR LEND THESE ITEMS. TNX  
Stanley or Ernest

\* \* \* \* \*

FOR SALE

Two (2) Model 15 TTY's prin-  
ters with tables and power  
supplies. Excellent condit-  
ion. \$65.00 each. Good Buy!  
Phone

K6TV Steve Kaider 961 5198

\* \* \* \* \*

REMEMBER

IF YOU DON'T MAKE A SALE OR  
IF YOU DON'T FIND WHAT YOU  
NEED IN THE "FOR SALE" COL-  
UMN HERE OR OTHERWISE

GO TO THE AUCTION

FRIDAY 15 OCTOBER AT AMPEX

OR

DONATE IT TO PAARA TO SELL



BOARD MEETING 9/22/71 - Cont'd ators. It appears that the set-up of a "Public Service Net" of the AUCTION to be held 15 October in the AMPEX cafeteria. The Board voted unanimously to fully support and go ahead with the auction.

Individuals were designated to acquire door prizes. The various committees and their responsibilities were discussed and clarified. Rules of the sale were outlined and approved. Various necessary functions such as clean-up, parking, registering, etc. were discussed. Publicity was arranged for through the PAARA VP for Public Relations. 10. Under new items there was some discussion of the museum at Foothills College.

There has been some discussion and proposals made that the C-D Net on Monday nights be designated as a "Public Service Net". This suggestion derives from the evident lack of both participators and the Cities involved in the C-D Net having adequate interest conviction in the real value of the C-D Net. It appears that the various Cities involved have developed alternate communications nets which appear to them to be more dependable, reliable and available than the services provided by amateur oper-

ators. It appears that the set-up of a "Public Service Net" might retain the feeling of need so essential to retaining interest in and Ham Net. Meanwhile it also appears that our most obvious and pressing need is for a real PARTICIPATOR as a RADIO OFFICER to organize and rehabilitate the C-D and RACES organization in this area. The need is there - we can perform a REAL public service by manning and operating a real EMERGENCY NETWORK.

11. Andy Korsak, VE3FZK, reported he gave a talk to the San Mateo Radio Club on the OSCAR on 17 September. Some items of material were donated to PAARA. 12. Lee Zalaznik, WB6BJB, reported that he mans 3952 Khz each Monday night after the C-D Net is secured. Lee has been doing a fine job there at the trailer and will handle any traffic you may have. Phone: 326-6200 extension 2666. He says the Net has been very active. The control has been shifted to various of the City stations. To provide experience in handling traffic the ARRL bulletins have been relayed at times.

Lee also reports that he has been making many contacts using his own call, WB6BJB, and now has almost completed his QSO's for a WAS award.

GO TO IT LEE ! ! !

9  
BY-LAWS  
of

MENLO PARK C-D RADIO CLUB  
Adopted June 1959

ARTICLE I MEMBERSHIP AND DUES

There shall be two (2) types of membership, as follows: Full member and associate member. A full member shall be a F.C.C. licensed radio amateur, excepting F.C.C. Novice Class license. Other than full members shall be known as associate members.

There shall be no initiation fees or dues. Each member shall actively support the club by contributions of personal time and/or equipment as may be required to achieve the objectives of the club.

ARTICLE II FINANCES

When monies are required to cover necessary expenditures the membership shall meet to determine the method of fund raising.

ARTICLE III LOYALTY OATH

All members shall be required to take a Loyalty Oath to the United States of America in order to achieve the club's objectives.

ARTICLE IV SUSPENSION, EXPULSION, WITHDRAWAL, OR RESIGNATION OF MEMBERSHIP

Any member who does not actively engage in club activities for a period of three months or longer may be notified by the secretary that the member is subject to suspension unless he can show cause why he should not be dropped from membership.

Cont'd page 12

# HALTED SPECIALTIES

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

AND IN ADDITION

ALL MAKES AND TYPES OF COMMERCIAL EQUIPMENT

POWER SWITCHING EQUIPMENT - - - TELEPHONE SWITCHBOARDS & JACKS  
TELETYPEWRITERS OSCILLOSCOPES

HYDRAULIC LINES, VALVES, ETC.

WE HAVE A TREMENDOUS STOCK OF COMMERCIAL TEST SETS  
FOR ALL OF YOUR RESEARCH AND DEVELOPMENT PROJECTS SEE OUR STOCKS

FOR THOSE HARD-TO-FIND ITEMS SEE US

WE SELL BY THE ITEM OR BY THE POUND. SELECT YOUR NEEDS AND DEAL  
BROWSE AROUND AND FIND IT



HALTED SPECIALTIES

HAS AN EXCELLENT STOCK OF SOLID STATE DEVICES, IC's, TRANSISTORS, ETC

LOOK OVER THIS EXCELLENT SELECTION

TO FILL YOUR NEEDS

WE ARE LOCATED CENTRALLY NEAR THE BAYSHORE HIWAY

COME IN ON STIERLIN ROAD TO PLYMOUTH STREET, TURN LEFT AND GO TO  
END OF STREET - WE ARE ON THE LEFT.

WE HAVE AN UNUSUAL STOCK OF AIRCRAFT INSTRUMENTS  
COMPASSES, PRESSURE GUAGES, HORIZON LOCATORS, AND MANY OTHERS

DO YOU NEED AN

ANTENNA ROTATING DEVICE?

HIGH VOLTAGE INDICATOR - MILLIAMMETER?

STEREO RECORDER AND TAPE DECK? PRERECORDED TAPES?

VACUUM TUBES - TRANSISTORS - CONDENSERS - MICROPHONES - ETC.

MAKE A SPECIAL TRIP

TO

HALTED SPECIALTIES CO.,

1690 PLYMOUTH ST., MOUNTAIN VIEW, CA. 94040  
PHONE: 969 9510

12

ARTICLE IV - Cont"d. MENLO PARK C-D RADIO CLUB

Any motion for the expulsion of a member shall be submitted in confidence to the President of the club, with a full statement of reasons on which the motion is based. The President shall question the accused member and decide if the member shall be allowed the opportunity to resign without report to the membership, or whether the motion shall be referred to the membership. No action shall be taken against a member without notice to said member to allow him opportunity to be heard in his own defense.

Resignation or withdrawal from membership may be made by written notice to the Secretary.

ARTICLE V NOMINATION AND ELIGIBILITY OF OFFICERS

Nominations for officers shall be made at a club meeting held within the second month preceding the end of a fiscal year. The office of President and Vice-President shall be held by Full Members.

The office of Property Custodian shall be held by a Full Member due to F.C.C. requirement for licensing of the club station.

ARTICLE VI ELECTION OF OFFICERS

Officers shall be elected by written ballot at a meeting held within the month preceding the end of the fiscal year.

The election shall be conducted by the President and the candidate receiving the greatest number of votes for any office shall be declared elected to that office at the end of the meeting.

ARTICLE VII DUTIES OF OFFICERS

(Continued next month)

13

# U-DO ELECTRONICS

1036 Castro Street

Mountain View, Calif.

Phone: 968-8894

NOTE OUR NEW LOCATION

1036 CASTRO

HOMEBREWERS - EXPERIMENTERS - RESEARCHERS - HAMS

HERE IS THE SHOP YOU LOOKED FOR

DO-IT-YOURSELF KITS FOR YOUR EVERY NEED WITH THE HOOKUPS

AND

ALL THE NECESSARY ITEMS THAT GO WITH THEM

SPEAKERS                      PHONES

CIRCUIT BOARDS - WIRE - SOLDERING

TOOLS - TAPE - LAMPS - BACKBOARDS - DECKS

WE CARRY THE HEP LINE

MOTOROLA

U-DO ELECTRONICS, 1036 Castro Street, Mt. View, Calif.



14

# J & H OUTLET

## SURPLUS ELECTRONICS

476 INDUSTRIAL WAY, SAN CARLOS

PHONE: 591 7113

EASY TO FIND

WHAT YOU WANT

IN OUR WELL BINNED DISPLAYS

WE HAVE NEW AND SURPLUS ITEMS ALL NICELY SEPARATED

INTEGRATED CIRCUITS OF ALL KINDS, TYPES

SELECT THE SOLID STATE DEVICE TO SUIT YOUR OWN NEEDS

WE HAVE THEM

CHEAP

IN ADDITION TO AN UNUSUAL SELECTION OF ELECTRIC

INSTRUMENTS AND DEVICES

WE HAVE AN EXCEPTIONAL DISPLAY AND QUANTITY OF ALL KINDS

OF SHEET METALS, TUBING, BARS, RODS, BLOCKS AND CASTINGS

J & H OUTLET, 476 INDUSTRIAL WAY, SAN CARLOS, CA. 591 7113  
SURPLUS ELECTRONICS

Continued from page 4, 15

but anyway here's a bibliography on how to get on the no QRM bands:

Duplex Phone on 5800 QST Jan 1946 pg 19

Lets go Microwave QST June 1950 pg 11

Experimental Transceivers for 5650 mcs QST Aug 1960 pg 11

Practical Gear for Amateur Microwave Communication on 3300 QST  
June 1963 pg 1

By Andy Korsak, VE3FZK

(The above bibliography is due to Cliff, W6HDC)

#### OSCAR TRANSPONDER TESTS

By the time you get this paper, the fun will have been all over, so this article is just to let you know what happened on the W6CTX expedition to Mt. Hamilton on Sept. 11 and what is planned for Sept. 25.

#### DISASTER ON MT. HAMILTON!!!

Early Saturday morning, Sept. 11, the W6CTX expedition started out from the trailer in three vehicles, but came back in only two vehicles. One of the cars managed to wind up upside down in a gully half way up the mountain. Fortunately, I was on the 7225 ground net all the time, and as soon as I learned of the accident I informed Lee, WB6BJB and Cliff, W6HDC, and I forget which one of them called the Highway Patrol. The overturned car was totally wrecked, but luckily nobody got hurt, except Dan Lutz, WN6DVA, from the San Carlos Club, who was slightly scratched up in the face. The others in the car were Gene Sussli, WA6NVU, (driver and owner) and Mike Bach, WB6FFC. Gene, as you all know, is president of the San Carlos Club. Also, in my Datsun pickup was Greg Garcia, WB6DAI, of the San Carlos Club, and Glenn Tomlin, WA6KKK, was in the third vehicle. Glenn works at SRI and he brought along his 7 element 2-meter beam, as well as his VHF and general technical expertise which came in handy as the rest of us seemed to be pretty disorganized. While driving up the mountain, Mike was trying to repair his Pawnee and talking through it to Greg who had a 2-er in my truck. We were ahead of Gene, and suddenly we lost contact with them, but we figured they merely pulled over because somebody was car sick. So we kept on because equipment had to be set up out my truck, and we thought they would be along soon. When we reached the top we asked somebody that just arrived after us if they had passed a blue car. They said they did, in the ditch. At that point I called Lee on the ground net, as we knew for sure it had to be our friends. It took us a half hour to get back down to the scene of the accident, and after we picked up what we could of equipment and my tools (which had flown all over the car and down the gully, covered up by a landslide), we



decided this wasn't going to keep us from reaching our goal, after coming all this way.. So they all piled into Glenn's little Datsun wagon and we rushed back up the hill to see if we could still make the transponder contact. As it turned out, we got to the top just when the plane turned around, and we heard WA6JPR from down south through it - and the beacon coming out of it, but we did not hear the battered up Pawnee come out of it on 10. We're not even sure what kind of a signal was coming out of it!

#### BAY AREA STATIONS SUCCESSFULLY CONTACTED SOUTHERN STATIONS

As it turned out, at least somebody managed to work down into the L.A. basin through the transponder. Bob Stein, W6NBI, who built up our prototype tunable converter on the 2 meter project, contacted WA6JPR on SSB, and apparently somebody else also down in the Sunnysvale area got into the thing from down there, so I guess we did not have to all the way up that wretched mountain road to try to break the repeater. Incidentally, when W6NBI hit it, it was somewhere near Los Banos, and the northernmost portion of its journey.

#### PAARA HAMS TO THE RESCUE

I have to express my gratitude here to Lee, WB6BJB, and Cliff, W6HDC, for getting off the ground net and sticking by the frequency up 7 Kc from the net so I could keep in touch during emergency, until we got underway and reached the top of the hill again. Also, thanks are due to ED, W6AWN, who took over from Lee when he had to leave for personal reasons. Doc, WA6OPA, tried to help us but signals were not too good between us. We appreciated Cliff's 2 KW linear being fired up to help us, as we were in a gully and ground waves were fairly badly snuffed out at the accident scene. It turns out Cliff got into trouble with his neighbors over that - his 2 kilowatts were apparently ringing phone bells all over the neighborhood. Sorry about that, Cliff - we understand your rig was clean, and the FCC is right behind you, but we all know (very well, some of us) how that does not make a bit of difference with the neighbors -- they don't give a hoot!

#### PLANS FOR THE SEPTEMBER 25 FLY-BY

W6OTX will be on the ground net again, with Lee, WB6BJB, assisting the ground net on 7225, as on Sept. 11. Also Bob Baum, W6BFK, Hal Moore, W6DEF, and possibly some other PAARA members will assist monitoring on 10 meters and relieving Lee on 40. I intend to operate the club's Gonset along with the linear donated to us by Don Snow.



(through Al Doty), and see how far out we can hit the transponder. I will probably operate out of my home QTH on 2, due to the much better antenna there, a J-beam, which I got from Brian Westfall (still have to pay you for that, Brian) - remind me at the meeting). I will keep in touch with the trailer through a pair of two-ers.

I also borrowed a 2-meter 2KW linear built by Irv Wolfe, W6HHN, using a  $\beta$  5 cxl500 pentode. I don't know if I 'll have time to set up a power supply for it, but if so, maybe we'll fire it up.

#### 2-METER PROJECT REPORT

Due to all the OSCAR flurry lately, plus family matters, I simply haven't had time to get back to working on the IF strip which I got back from Signetics last month. I have to build up a model of their design, as well. Also, my transmitter board is still unfinished, but I recommend that some of you go on ahead and start building the transmitter as described thoroughly in the last two issues. You can etch your own board very easily by tracing the layout in the last issue and using ferric chloride. We still have not settled on where we'll get boards made in quantity - hopefully this month I'll have some time to get back to that oo.

Thanks to Harley Gabrielson, K6DS, down in La Mesa, for bringing us a working bread board of a complementary multivibrator voltage doubler for our phase-lock-loop 13 volt supply. Harley was up here on a visit last month and I went to Don Seymour's place (of the San Mateo Club) for an eyeball ~~QSO~~ QSO with him and Don. I heard about the visit on the Monday night 2-M net. Don is building up the "PIP-SQUEAK" out of QSI, and etched his own board using ferric chloride and ordinary black tape layout of the circuit. Now, Don is not a technician, I believe, and he is a good example of a ham who is willing to try his hand at it, so go to it, fellas!

#### RED JOHNSON DONATES CLASSIC HRO RCVR TO PAARA

We have a beautiful museum piece at the trailer now, from Red Johnson, one of our advertisers. Fred Canham, W6QWF, said he will see if he can set up a power supply for it and hook up a speaker. That was a good receiver in its day, and still is, actually, so maybe we can get some use out of it as well as just look at it. This set is the original HRO (no modification, like HRO-J, etc.)

By Andy, VE3FZK

# DALTON REALTY

234 HAMILTON AVE., PALO ALTO, CA.

WE SPECIALIZE IN PERSONALIZED SERVICE

LET US HELP YOU SELECT A HOME

ALLOW US TO ADVISE YOU ON INVESTMENTS

WE WILL PROVIDE YOU EXPERT MANAGEMENT

## OUR DEPARTMENTS

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We are members of the MULTIPLE LISTING SERVICE. Our Residential Property Manager will give you his personal assistance and attention in selecting a new home or in disposing of your present home.

Our Apartment Management specialist will help you find that apartment to suit your needs.

### INVESTMENT

We can assure you of the finest available advice in the matter of investment in Real Estate. We specialize in the investment of funds for building up your estate.

### PROPERTY MANAGEMENT

We are prepared to manage your property for any period of time. We will rent your home while you are on vacation, or will manage your apartment complex for your lifetime.

BRING IN THIS AD FOR SPECIAL ATTENTION

## SAN CARLOS BUGLE

## Report of the San Carlos C.D. Amateur Radio Club

Well, school is back in session, fall is just around the corner and its election time for the San Carlos club. Nominations for the new officers were made at the September 16 meeting and are as follows:

President

Ken Keeler WA6DKF  
Gene Sussli WA6NVU  
Jack Pierce WA6CCH

Vice-President

Jack McEnnerney W6LII  
Fred Heward K6EER

Secretary

Connie Lutz WN6MNI  
Greg Garcia WB6DAI

Treasurer

Larry Daily W6KZJ  
Bill Burris WA6CXJ

Some of our gang had a close call on the road up to Mt. Hamilton in connection with the "oscar fly-over" on Sept. 11. Our good old Pres. Gene Sussli was driving his car with passengers Mike Bach and Dan Lutz. They hit a soft spot on the shoulder of the road and flipped off the road and dropped down approximately twenty feet. The only casualty was Dan Lutz who suffered some minor scratches, but the car was completely totalled. All the radio equipment came through OK, but poor Andy Korsak is still missing some of his tools that Gene was carrying for him. Guess the tool box came open and tools were flying through the air in all directions. All in all, they were real lucky with the exception of Gene who is out of one automobile.

73 - see you a few lines further down the log sheet.

Larry Daily, W6KZJ

Reminder: Keep in touch with all your buddies between club meetings, every Wednesday at 730 p.m. local on 23625 kc. Let's keep this band occupied.



# QUEMENTS

"WHERE YOUR FRIENDS AND NEIGHBORS TRADE"

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