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Official Publication Of

PALO ALTO AMATEUR RADIO ASSOCIATION  
(PAARA)

W6OTX

Palo Alto Amateur Radio Affiliated  
Association 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)

NEXT PLANNED FUNCTION

Date: Friday 4 August 7:30 PM;  
Place: Menlo Park Recreation Bldg (Assemble)  
Program: Field Trip to Stanford Radio Telescope.  
All hands assemble at the Menlo Park Rec-  
reation Bldg at 7:30PM. Leave as a group  
to gate on Alpine Road/Bridge. Thence to  
Radio Telescope. Gate must be locked so  
late arrivers cannot get in. (See Pg 4)

Vol. XVI  
No. 8  
Aug. 1972

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OFFICERS

ADMINISTRATIVE

President: Fred Canham W6QWF  
Vice Pres: Andy Korsak VE3FZK  
Secretary: Les Vickery W6AKR  
Treasurer: Vance Wardlow W6FLE

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Chmn TVI Comm: Glen Baker W6UOK  
" Publicity: Larry Rice W6IQT  
Eqpt Custodian: Ed Fairbanks W6AIN

CCRC Rep. Fred Canham W6QWF; Refreshment & Raffle Com.  
Ed Fairbanks W6AIN

Lee Zalaznik WB6BJB

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MENLO PARK C-D RADIO CLUB

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RACES RADIO OFFICER: Bob Allen W6WQD

Editor: Vance Wardlow W6FLE; Ph 854 0803; P.O.Box 911 MP  
POLICY: Membership includes subscription to PAARAGRAPHS \$4.  
Subscription rate \$1 per year. Non-subscribers will be drop-  
ped as new names are added to the mailing list. For your  
APPLICATION FOR MEMBERSHIP send \$4 dues to PAARA, P.O.Box  
911, Menlo Park, Ca. 94025. For info phone 854 0803.

support your club  
support your club  
SUPPORT YOUR CLUB

BECOME A PARTICIPATOR  
PAY YOUR DUES

GET INVOLVED

DO SOMETHING

FUTURE PROGRAMS

Wednesday 9 August, 7:30PM PAARA Trailer-Bd of Dir Meeting.

Friday 1 September: SAN CARLOS AMATEUR RADIO CLUB will host  
the meeting at the Vets Memorial Building at Redwood  
City. Meeting 7:30PM, program announced later.

3

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## FIELD TRIP TO RADIOTELESCOPE

Mr. George Durfey of SRI will give us a run-down on the Stanford Radio Telescope at the August meeting. Mr. Durfey is an antenna designer. He designs and builds them and then turns them over to other agencies to operate.

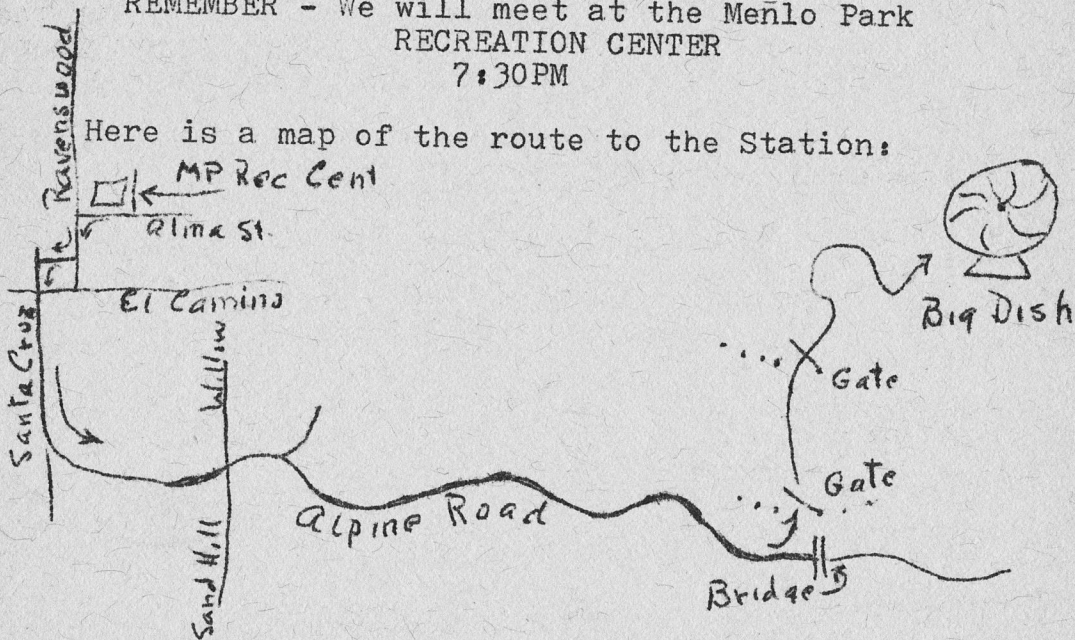
His antenna designs have been used by NASA for tracking deep space probes such as the Mariner and Pioneer probes. His designs provide for the means of transmitting and receiving intelligence to and from the satellites.

Basically the system consists of utilizing two separate frequencies. By using the Faraday shift phenomena intelligence is accurately transmitted and unscrambled at the receiver. The intelligence is stored and transmitted to the Goldstone station where interpretations are made.

The program has been operating for 5 years. It is mostly to investigate atmospheric physics such as back-scatter and phase shift. Some radio-astronomy is accomplished also.

REMEMBER - We will meet at the Menlo Park  
RECREATION CENTER  
7:30PM

Here is a map of the route to the Station:





POWDER PUFF DERBY

Lots of preparation, much talk and a whole lot of work went into arrangements for handling communications for the 26th annual Powder Puff Derby. There were the usual promises of help and the VERY usual failure to produce. But in spite of many frustrations the station was set up and the communications were provided.

The 26th annual Powder Puff Derby started from San Carlos Airport on July 7th. Ninety seven planes took off for Toms River, N.J. Palo Alto Amateur Radio Assn. (PAARA) was selected by the race committee to provide the amateur radio facilities at the Villa Hotel in Belmont and at the airport itself. Antennas were erected for 40, 20 and 2 meters, also 432mhz beams for ATV. ATV tubes to the hotel enabled contestants to monitor activities at the airport prior to the start of the race. SSB was used for net relay of the craft times to the ten stations in the cross country net. Ground handling of the aircraft during the week preceding take-off was accomplished with 2 meter fm walkie-talkies by members of Bay Area repeater groups and arranged for by WA6JXO, Lucky Rogers.

PAARA set up and manned the HF long haul link as well as the ATV link to the hotel.

Those participating were:

- Luck Rogers, WA6JXO;
- Ed Fairbanks, W6AIN;
- Lee Zalaznik, WB6BJB;
- Andy Korsak, VE3FZK;
- Paul Thekan, WN6DQU;
- Kip Wallace, W2PGW/6;
- Greg Garcia, WB6DAI;
- Ray Allustiarti, W6JOV;
- Larry Feed, W6CTH;
- Fred Gemler, W6MYO and
- Chairman Fred Canham, W6QWF.

It was a fine demonstration of Amateur Public Service at its best. All participants turned to with real enthusiasm. And despite the frustrations inherent in such an operation all completed the exercise with a feeling of accomplishment. And surely all had learned something from the experience.

Somewhat incidently to the main thrust of handling the messages for the PP Derby the regular PAARA meeting for the month of July was held at San Carlos Airport on take-off day 7 July. About 15 or 20 members showed up and all had the opportunity to see what our PARTICIPATORS are capable of doing when they get their minds set to it!!

WE DO NEED MORE SUCH ACTIVE MEMBERS TO GET IN AND GO !!

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DEALS

DEALS

DEALS

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CX7A

WE NOW HAVE THE SIG-1, CX7A IN STOCK

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TRADE IN YOUR OLD GEAR

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MORE POWDER PUFF DERBYTHE AWTAR NET 1972

From the broad pacific to the wide atlantic shore, Amateur Radio, under the direction of W3GTC, Mrs. Carolyn Currens, was called upon to handle communications for the 1972 Powder Puff Derby. This was the 20th year that an amateur radio net has assisted with the All-Woman Trans-Continental Air Race, and Mrs. Curren's 15th year as Communications Chairman. The race start, all enroute airport stops, and the finish were covered by members of a Ham relay team.

Aircraft arrived at San Carlos Airport (in the San Francisco Bay Area) from July 1 to July 6. There they were inspected both mechanically and structurally by race officials, and impounded until the start of the race by CAP personnel.

Members of the Oakland WB6-AAE Repeater Group, organized by Lucky Rogers WA6JXO, provided the 2-meter communication net on 146.65 simplex, to coordinate the arrival of aircraft and pilots at the various inspection points prior to the race. On race day they provided the on-the-field communications that allowed race officials to start the aircraft winging eastward at 30 second intervals.

Then all attention shifted to the PAARA operation upstairs. (See page 5 for details)

W3GTC C. Currens, Chairman  
 W6QWF Fred Canham San Carlos  
 W7JZ Joe Yeasel Winnemucca Nev.  
 WA7FVQ Lloyd Bute Ogden Utah  
 W7PJX G. Brown Rock Springs Wy.  
 W0VQR H. Peppert Scottsbluff Neb.  
 K0MMS P. Babinete Souix City Io.  
 K9MVJ Leo Williams Moline Ill.  
 W9TQA J. Franke Ft. Wayne Ind.  
 K3DMG L. Shelly Latobe Pa.  
 K3AN K. Niskanen Latobe Pa.  
 W2JBK C. Cella TOM'S RIVER N.J.

WB6AAE REPEATER GROUP

WA6JXO, Lucky - Organizer  
 WA6CZJ Bob; WA6AVO, La Kay  
 WA6AXV, Dick W6QWS, Fred  
 WB6SKA, Alex WB6BDD, Amos  
 K6KAP, Mack WB6CCW, Hart  
 K6TMI, Clem WB6ODQ, Janie  
 W6NQN, Bill W6FFC, Mike  
 WA6HYR, Dick K6CCJ, Mel  
 W6PSB, Jim W6WTZ, Dick  
 WB6IKK, Joe WB6CKT, Noland  
 WB6RPK, Charlie WB6GWQ, Roy

This 2 meter network handled all local communications on-airport and to the hotel on the take-off day.

The PAARA station W6OTX was manned by Fred Canham and his trusty crew from Saturday morning until the end of the race on Monday afternoon, July 10th. They monitored and followed the arrivals and departures at check points across the United States, as they were relayed back by the amateur network.



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 G.E. AC Load Visualizer to 600V. 50 Amps \$35.00; 4 NEW 829B  
 Radio Transmitting Tubes and sockets \$3.00 each; Telescoping  
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All of the above subject to OFFER

Charles Carpenter, K6HPP, 786 Coleman Ave., Apt K, Menlo  
 Park, Ca. 94025. Or call 325 4845 for further info.

\*\*\*\*\*

### WANTED

Garage door opener with two  
 remote controls.  
 Call Vance 854 0803

### WANTED

SWAN 270 in good condition  
 call Fred 948 9238 (For a  
 friend of his)

\* \* \* \* \*

### SOMETHING FISHY!

Kip Wallace signs himself by  
 W2PGW. He has participated in  
 several functions locally  
 ing that call. However FCC  
 lists the call as that of  
 Ralston Nelson of Watchung  
 N.J. WHAT GOES ON HERE KIP?  
 The amateur bands are for the  
 use of QUALIFIED hams. Where  
 do you stand?

\* \* \* \* \*

Paul Thekan WN6DQU, is one  
 of the busiest of our PARTI-  
 CIPATORS! ! ! He recently took  
 a large box of spare condens-  
 ers and resistors to Andy Kor-  
 sak as a start on the PAARA  
 "Junk-Box-Reserve" for use by  
 any interested member. Call

Hal Moore W6DEF tells me  
 his old typewriter is getting  
 into the habit of misspelling  
 words! Can't let that go on so  
 Hal is buying himself a new  
 and correct spelling Hermes!

I've depended a long time on  
 Hal for news items and he now  
 volunteers to assist in the  
 preparation of PAARAGRAPHS!  
 Knowing how busy he is I dou-  
 bly appreciate his offer.

THANKS HAL.

\* \* \* \* \*

Andy at 854 2759 for info.

Paul also is teaching a class  
 of youngsters, about 20, the  
 basics of electronics. All of  
 this in addition to making an  
 excellent score on Field Day! !

EDITORS RESIGNATION

Toward the end of 1971 it became evident that my business commitments and personal time requirements would not allow me to continue as editor of PAARAGRAPHS. Nor could I continue to devote time to obtaining and preparing as well as billing and collecting for the ads in PAARAGRAPHS. Maintenance of membership records, issuance of membership cards, continuous revision of mailing lists, issuing publicity releases, coordination and direction of the C-D activities of the Club, responsibility for the Club insurance program, the direction and control of the Club raffles, arrangement of Club programs each month and many other activities all resulted in a greater workload than my schedule would permit. I therefore informed the Board of Directors that I must plan to drop these activities.

Some small relief resulted but it has not been adequate to allow me to continue.

I therefore find it necessary to resign as Editor of PAARAGRAPHS and will phase out other activities over the next few weeks.

I want to take this oppor-

tunity to thank all those who have assisted me in so many ways over the past three years in preparing, editing and issuing PAARAGRAPHS.

In particular I wish to thank the many companies and facilities who have given their support to the Club through their advertising in the paper. This has allowed publication and distribution to many amateurs both members and non-members of the Club. It has also allowed the Club treasury to be built up to about \$700 which makes it possible to go forward with many programs.

As a final remark I must say that I have been very much frustrated in persuing my basic philosophy of pressing for every advantage to the Club as opposed to advantage to the individual from Club activities. I have been very disappointed that the greatest number of those joining the Club have done so with no thought of assisting the Club in any way but to take advantage of every facility of the Club to their individual advantage.

I have been further very dissappointed that the greatest number of members appear to have no feeling whatsoever as to their responsibility toward the community. Each appears to feel the community owes them something. So 73 and THANKS.



FIELD DAY

As we outlined for you last month in PAARAGRAPHS our Day crew went to work with a vengeance this year. All had the welfare of the Club at heart (well almost all! !)& our scores show their dedication to the cause.

All stations were on our big emergency power unit. It never even grunted with the load. Only problem was a broken gas line which was soon fixed by our expert maintenance man, Ed Fairbanks, W6AIN. Total QSO's were 927 for a total score of 2134.

There were a total of TEN PARTICIPATORS who manned the three transmitters plus the Novice station.

We had excellent publicity and handled messages to the Section Manager as well as emergency coordinator.

## HERE IS HOW THE POINTS WERE SCORED

Band	No. of QSO's	Xmtr	DC Input
80 C.W.	24	T-4XB	180W
75 ph	111	HW100	180W
40 C.W.	98	T-4XB	180W
40 ph	194	HW100	180W
20 C.W.	123	T-4XB	180W
20 ph	151	SWAN 350	180W
15 C.W.	16	T-4XB	180W
15 ph	144	SWAN 350	180W
10 ph	3	SWAN 350	180W
Novice	63		
	<u>927</u>		
	410 bonus points		
	<u>2134</u>		

Although we are very disappointed in the number of our members who prove to be NON-PARTICIPATORS and in those in the Club who are more concerned with their own pleasure than the welfare of the Club we are VERY PLEASED with the showing made by our NOVICES. Those youngsters were really IN THERE PITCHING. We oldtimers envied their energy and applauded their dedication. Next year will - all together - put the CLUB over the top as a national contender ! ! !

BECOME A PARTICIPATOR

FOURTH OF JULY PARADE

The 33rd annual Redwood City 4th of July Parade got under way at 10:30 AM. Thirty six communities were represented

in the 2½ hour parade, coming from as far away as Sacramento. There were 30 floats and among the marching units was the Air Force Academy's Drum & Bugle Corps. Captain Elgin Long of Woodside was the Grand Marshall.

As for many years in the past, the RC C-D Net members furnished communications. At the microphone of W6WWJ/6 was Ken, K6DRN and there were 8 portable units stationed along the parade route. There were 3 major and 2 minor emergencies handled as well as much routine traffic. The RACES Plan was used on a frequency of 145.49 MHz. The RC Radio Officer, Dick K6ANN, was in charge of the entire operation. He is a member of the Peninsula Celebrations Association.

Demonstrators threatened to stop the parade and the San Mateo Riot Squad, which was on standby duty, had to be called into action to disperse the unruly people. No one was hurt and only one arrested.

Amateurs who participated in communications (all of them AREC members) were: Dick K6ANN; Ken K6DRN, Glen W6UOK; Bob W6VQV; Bob K6UKF;

Art WB6MED, Mike WA6AIX, Mike WN6MZS; Ralph WB6HIX; Bill WA6VGR; Joe W6GYX; Steve WN6DQT Andy VE3FZK and Hal W6DEF.

A comment from the Radio Officer was that each year we improve in our ability to handle the required communications effeciently. It is also noted that new faces are seen and new voices are heard taking the place of those who for reason or another leave the scene of action.

We feel very sincerely that this demonstration of Public Service by our group of Amateur Radio Operators enhances the image of the Amateur Radio Fraternity in the public eye.

\* \* \* \* \*

WELCOME NEW MEMBERS

Dean F. Babcock, W6OEB, Adv. Lic. With his KWS-1 Dean work on 20 meters. Also has a 2M mobile rig. Not much time out from SRI but enjoys hamming.

Gerald V. (Jerry) Lucha, W6OJE had experience in Thailand as well as in W3 land. Has an NCX-5, a 2M rig and a 6M Heath lunchbox to get on the air with. Between moving to a new QTH and working at SRI he has been real busy lately, but give him time he will meet you on the air!

NICE TO HAVE YOU ABOARD 73

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UP COMING EVENTS

Mark your calendar for the following events:

Event: PICNIC - 3 Club Special

Date : Sunday 24 September

Place: Huddart Park, SM Co.

Put up a picnic lunch and get the family together for this "get acquainted" event. There will be coffee, soft drinks, hot dogs available at the picnic area. Games and fun will be arranged for all. Call Gene Sussli for any more info. 349 6179.

Event: TRANSMITTER HUNT

Date : Saturday 12 August

Place: Start at SP Depot in Redwood City 7PM.

Gary Perazzo, K6LVJ, on the C-D Net Monday 24 July announced that he is setting up a transmitter on 145.49Mhz with a continuous signal on the air. The intercom channel will be on 146.94Mhz FM. All are welcome to participate. Call Garry on 854 3599 for info.

Event: AUCTION - PAARA

Date : Friday 13 October

Place: AMPEX Cafeteria (This is tentative).

Everyone welcome to bring his material to sell. Each will have a choice of auctioning his material or he may set up his own table for sell-

ing his own materials. Tables will be rented at a flat rate while auctioned material will be charged a small percentage of the selling price. Each seller will be limited to a given number of "lots".

Start now getting your stuff together for the big AUCTION on 13 October. Call Fred Canham W6QWF 948 9238 for info.

\* \* \* \* \*

BOARD OF DIR. MTG.

7/12/72, PAARA Trailer SRI.

Discussion of PP Derby.

Board approved payment of \$54 for PAARA liability insurance. Paid Ed Fairbanks for the FD gasoline - \$8.65.

Treas. read ltr to L.B. Nelson Co. thanking for FD site.

Fred points out we made a total of 1980 points on FD 1971, in 1972 is 2129.

Discussion of PAARA 2m Net on 145.24. Fred points out that until members start talking to one another there will be little Club cooperation or coordination. It was pointed out that PAARAGRAPHS has failed to coordinate Club member activities. Participation by members is the bare minimum. Discussion of 13 Oct Auction.

\* \* \* \* \*

JOIN THE CLUB BE A PARTICIPATOR

TECHNICAL TOPICS de VE3FZK/W6AMATEUR TV AT FIELD DAY AND POWDER PUFF DERBY

Just to prove it could be done, I installed the W6OTX/TV station in my camper on a little red Datsun pickup, complete with ART-26 transmitter, 100 ft. of big heavy RG-17 coax, 16 element J-beam, rotor, TV receiver and converter - the whole ball of wax. Despite outcries from field day chairman, Fred Canham, president of PAARA, and others who feared possible interference by 15,750 KHz harmonics, I did not interfere with communications in any way at the field day site. I transmitted pictures of the tents and activity around them to a ham in Sunnyvale, and he transmitted a picture up to me. We saw a weak snowy picture from him but he said later that he did not see any video from us at all. I guess the Los Altos Hills got in the way too much. Anyway, we had some fun trying.

The following week I drove the mobile TV station down to the San Carlos airport and I set up operations right next to the Flood Aviation building where the other PAARA members had their VHF and HF setups. I had the camera on a tripod on top of the camper and I could get a good view of the whole operation from there. Paul Thekan WN6DQU helped me set up the club's J-beam and feed it with the RG-17 up on top of the 20 meter beam the other guys had set up on top of the Flood building. We then went over to the Villa Hotel in San Mateo where the Powder Puff Derby registration room was, and we set up a receiver and converter for the 440 MHz band. We also got permission to put my bandsaw UHF TV antenna on the roof and then Bjorn Forsberg SM5UR dropped by with a 432 MHz preamp to lend us for the occasion. Paul and Dan Lutz (WN6DQU of PAARA, WN6DVA of the San Carlos Club) stayed at the Villa Hotel and tuned around with the receiver while I manipulated the W6OTX/TV station at the airport. After some adjustments at both ends we finally got a clear snow-free picture through. The girls got a big kick out of the whole operation. One thing lacking, though, was some publicity about what we were doing. The few of us hams around were too busy manipulating the equipment, and it is too bad we did not have some extra hams around there to act as "producers" and "directors", plus

some attention getters at the receiving end. Most people looking at the TV picture didn't realize what was going on, I was told later. Next time we throw a ham TV party, how about some more participators? Your next chance will be at ;the October ham fest in San Mateo . Bill Jackson and I are planning to set up two-way ham TV there, possibly between some special point of interest and the Royal Coach Hotel where the convention will be. Maybe I ought to have the camper loaded with the TV station out in the parking area, where we can get PAARA some publicity by transmitting pictures of people arriving.

#### COLOR TV CAMERA PROJECT

This project has been temporarily shelved due to lack of laboratory space at SRI, where I was using a corner of an electronic engineering lab close to my office prior to my one month vacation. I am supposed to be able to use that space again once some possible SRI contract negotiations are decided on. This kind of amateur project is not exactly a "garage" variety" type -- I need to use scopes, signal generators, video monitors, etc. which I don't have at home -- and I am very grateful to SRI for allowing me some lab space for it. The manager of the group running this lab is Milt Adams, WB6KOR, who is quite active on the DX bands. Some of you DX hounds might have run into him the air.

#### 2-METER PROJECT

Well, this old unfinished project has just been revived. While I haven't been able to work on the color TV development, I decided to blow the dust off the W6HDO solid state transmitter which I build about a year ago, and never did get to work. After a lot of tinkering around, I finally discovered that I had missed placing a 51 pf capacitor on the pc. board! This one capacitor madd all the difference. I haven't put the thing on the air yet -- just checked it out on a dummy load and listned to it with a twoer I have been borrowing for lke past year. It puts out exactly the same amount



of power as the twoer, about a watt or watt and a half, I guess.

The club still has the master p.c. board layout and a negative to make more boards,. Anybody wanting to build this transmitter should contact me for further info at 854-]759 or 326-6200 x 2853 or write to the PAARA P.O. Box 911 M.P. Also, see last year's Aug. and Sept. PAARAGRAPHS where we published the layout and circuit.

John Ellison W6AOI called me up several times recently and he is undertaking the continuation of the receiver side of this project. He researched what commercial outfits in FM transceivers are using for circuitry, and he has come up with some good design ideas, so the club may have a receiver p.c. board in the near future. We have a good converter design by W6NBI, for the low selectivity IF strip with the phase locked loop NE 560 or 561 that I was using in my earlier design (which I intend to get back to soon.) but John is proposing double conversion with X-tal front end and tunable 1-st IF around 12 MHz and 2-nd IF at 455 KHz

#### CORRECTION TO LAST :AUGUST ISSUE

If you still have your Aug. 1971 issue of PAARAGAPHS and are interested in building the W6HDO 2-meter transmitter, there was an error in the circuit diagram there. The 51 p.f. capacitor going from the top of the diodes to ground should have gone from the joint of these diodes to ground. This is the part I left out altogether and was the reason the one I built wouldn't work! Cliff Buttschardt, the designer, tells me this transmitter design has been thoroughly field tested and is excellent.

#### PARTS POOL FOR CONSTRUCTION PROJECTS

The club has now acquired vast quantities of useful capacitors, resistors, tubes, transformers, etc. for use in construction projects. Anybody looking for a particular part, call us and see if we have it. Also, anybody with parts they want to donate to the club pool, let us know.

# RED JOHNSON ELECTRONICS

440 PEPPER STREET, PALO ALTO, CALIF.      PHONE: 326 6085

open hours

Monday thru friday: 8AM to 8PM; Saturday 8A-6P; Sunday 10-2

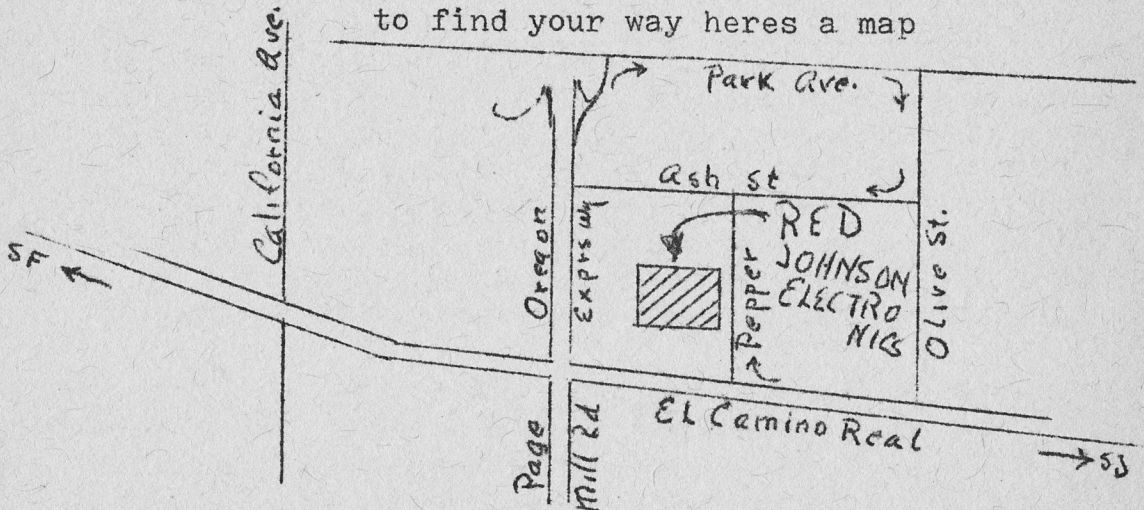
RED SEZ: Hope you had a fine vacation. Were the fish biting?

Were you able to work back home with your rig?

If you found that rig needed some goosing up -

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to find your way heres a map



RED JOHNSON ELECTRONICS, 440 Pepper St., Palo Alto, Calif.

The San Carlos Bugle

A large part of our last meeting was taken up to double-check the Field Day logs with the cross-check sheets. I was very pleased to find that there were very few repeat contacts. The first score as reported to ARRL is 1631 contacts, 14 operators and a total score of 3,862 points. This is a very satisfying result since we improved our score from last year by over 500 points.

I wish to thank all participants for a 100% effort. Our star performer this year was unquestionably Bill Jackson, W6OWQ with his excellent score of 529 contacts on the 20 meter phone band. Bill arrived at the FD site late Friday afternoon to start the erection of the equipment. He slept over at the site but he did not get much sleep, probably because he was too excited on what was to come. Starting at 11 AM Saturday he began his full 24-hour stint that was to earn him top honors for our club. Another good performance was put in by Larry Reed W6CTH and Bill Burris, WA 6CXJ, with close to 350 phone contacts on the 40 meter band. That is about twice the number they said they would make. Well Larry, now that you know what you are capable of, you might as well bid 400 contacts at our next pre-Field Day Auction.

A special salute to our novices Dan and Connie Lutz, Tom Eberhart and Eric Bach, many of whom operated a station for the first time. Considering the fact that they only had crystals for the 40 meter band we really appreciate what we got with 25 contacts. This is more than double the number of contacts of last year. By the way, I understand they had a real system going. Connie has a real nice fist and Tom can copy code at about 10 wpm, so what's more natural but just to split those tasks.

Again, thanks to all participants for a good show.

FOR SALE

73, Gene, WA6NVU

Ten Tec FM3A, 20 and 40 meter cw transceiver. Qrp 5 watts. Unit comes complete with Ni-Cad battery and charger. Price: \$65. Call Warren Struven in San Carlos at 591-0125.

Herb Messler Still has some very reasonably priced equipment for sale, such as Ameco TX-62 X-mitter (\$65), Ameco 2 mtr converter (\$20) an enclosed 5 ft. rack (\$25), TT-63 RTTY Repeater (\$20), Heathkit SB-620 Spectrum Analyser (\$70) And many ham magazines. Phone 593-6026



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