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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)

NEXT PLANNED FUNCTION

Date: Friday 17 December 1971, 7:30 PM.
Place: HARRY'S HOFFBRAU, 1909 El Camino, Redwood Cty
(Just north of Woodside Road overpass)
Program: INAUGURATION OF OFFICERS - SCARS, SCARC,
& PAARA.

AND

XMAS PARTY

W6OTX
K6YQT
MENLO PARK C-D
RADIO CLUB

Vol. XV
No. 12
December
1971

| | | |
|------------------------------|-----------------------------|---------------------------|
| ADMINISTRATIVE | OFFICERS | BOARD OF DIRECTORS |
| Pres: Andy Korsak, VE3FZK | Chmn: Andy Korsak, VE3FZK | Andy Korsak, VE3FZK |
| V Pres: Bob Allen, W6WQD | Secty: Lee Zalaznik, WB6BJB | Lee Zalaznik, WB6BJB |
| Tres: Vance Wardlow, W6FLE | Membr: Glen Baker, W6UOK | Glen Baker, W6UOK |
| APPOINTMENTS | " | Hal Moore, W6DEF |
| VP PR Jerry Starkey, WA6LIJ | " | Vance Wardlow, W6FLE |
| CCRC Rep: Fred Canham, W6WQD | " | Ed Fairbanks, W6AIN |
| Alt. CCRC: Geo Raven, K6OG | " | Gerry L xson, W6OPA |
| TVI Comm: Glen Baker, W6UOK | " | Fred Canham, W6QWF |

MENLO PARK C-D RADIO CLUB

| | |
|---------------------------|----------------------------|
| Pres: Bob Allen, W6WQD | Secty-Treas: Vance Wardlow |
| V Pr: Andy Korsak, VE3FZK | Custodian : Bob Allen |

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

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P.O. BOX 911, Menlo Park, Ca. Phone: 854 0803. Dues \$4.00.

* * * * *

HEY LOOK WHAT IS COMING UP ! !

THE ANNUAL CHRISTMAS PARTY AND INSTALLATION PARTY FOR ALL
BRING THE FAMILY

Friday 17 December

7:30 PM

Lots of free prizes donated by our supporters. Everyone is to bring a gift for someone of his or her own sex. It should not cost more than \$1.50. These will be put on the XMas tree and everyone will draw a gift of his choosing.

This is a joint SCARS, SCARC and PAARA party. Bring your friends and neighbors and don't fail to bring the whole family. All are welcome. Get there early, join the fun.

HARRY'S HOFFBRAU, Redwood City. Starts 7:30 PM.

FUTURE PROGRAMS

Friday 7 January 1972: Joint SCARS, SCCARC & PAARA meeting to prepare future programs and present plans for for the year 1972. All suggestions for speakers, projects, joint actions and other items of intrest to members of the three Clubs will be discussed and a firm program prepared for the year.

Wednesday January 12: PAARA Board of Directors meeting in Trailer at SRI. All members welcome.

Friday 3 February: Individual Club meetings by SCARS, SCARC and PAARA. PAARA will present the Amateur TV project developed by Andy Korsak and Bob Allen.

Saturday-Sunday January 29 & 30: SIMULATED EMERGENCY TEST. PAARA plans to have a minimum of 6 mobile stations in operation with the Trailer manned as an EMERGENCY TRAFFIC CENTER. Hal Moore, W6DEF, our Emergency Coordinator will cahnnel all outgoing traffic into the National Traffic Net operating as the RACES NET simulating an EMERGENCY. Call Hal for your assignment at 368 0444.

* * * * * WELCOME NEW MEMBERS * * * * *

George Henry FLAMMER III, WB6RAL, a Stanford student from town Anaheim way has joined up. WELCOME ABOARD George. Hope we can see you at the meetings and PARTICIPATING in the many project under way. GOOD DX TO YOU. 73.

* * * * *

Paul THEKAN III, WN6DQU, President of the WOODSIDE HIGH RADIO CLUB, full time student and potential outstanding HAM. NICE TO HAVE YOU ABOARD, PAUL. We are looking forward to your PARTICIPATION in many of our projects.

* * * * *

Steven C. MONTOYA WN6DQT, member in good standing of the WOODSIDE HIGHRADIO CLUB. Welcome Aboard Steve. 73 CUL

Report of Meeting 5 Nov. 1971;
Election of Officers:(For year 1972)

PALO ALTO AMATEUR RADIO ASSN., INC.

ADMINISTRATIVE

Pres : Fred Canham, W6QWF
V Pres: Andy Korsak, VE3FZK
Secty : Les Vickery, W6AKR
Treas : Vance Wardlow W6FLE

BOARD OF DIRECTORS

Chmn : Fred Canham, W6QWF
Secty : Les Vickery, W6AKR
Member: Hal Moore, W6DEF
" Vance Wardlow, W6FLE
" Ed Fairbanks, W6AIN
" Gerry Laxson, W6OPA
" Robert Allen, W6WQD
" Andy Korsak, VE3FZK

MENLO PARK C-D RADIO CLUB

Pres : Fred Canham, W6QWF
V Pres: Glen Baker, W6UOK
Secty-Treas: Vance Wardlow, W6FLE
Property Custodian: Robert Allen, W6WQD (Trustee K6YQT)
Asst Prop Custodian: Glen Baker, W6UOK.

Andy opened the meeting by explaining many of the problems encountered in the design of a 2 meter trasceiver. He announced the Foothills Club Auction to be held 6 Nov at Philco.

He then discussed a TV antenna guaranteed to pull in channel 24 in Fresno (where the local 49er football games are broadcast).

Hal Moore, W6DEF, discussed the Powder Puff Derby which will start from San Carlos sometime in June. They will need phone patch service of Hams if available. Fred Canham will look into it.

(Note: Fred has contacted the

Derby officials and they are anxious to cooperate with us to assure communications for the lady aviators who will be participating in the cross-countyr race. Fred will get more info later.)

Jerry Starkey suggested a CHRISTMAS MESSAGE Network to be manned by our Clubs over the holidays. (Any one who is interested should call Jerry on 964 6584, he is on the job and planning to go ahead.)

The FIELD DAY PLAQUE bought by PAARA and to be presented this year to San Carlos Radio Club was displayed.

Auction income was discussed.

Meeting 11/5/71 Cont'd:

The speaker of the evening, Hank Olson, W6GXN, was introduced. Hank is a Radio Physics Engineer at SRI with many years of experience. He gave us an excellent rundown on the use of solid state devices in the construction of rectifiers. He started with the simplest diode rectifier circuits, explained the basics, and then carried us through the use of the most modern and advanced stages of the solid state devices. He covered the problems of regulation, overload, multi-voltages and others met in the design of rectifiers.

He pointed out that the new rectifiers are very efficient. A small $1\frac{1}{2} \times 1\frac{1}{2}$ inch unit will deliver 12 amps at 120 volts. Another will deliver 27 amps at 300 volts.

Hank demonstrated several built up units he had at the meeting. They were very much of interest to all hands.

We are very much indebted to you Hank, and hope we may call upon you for further advice and help in designing our units.

Thanks for a very fine evening and a most instructive presentation.

BOARD OF DIRECTORS MEETING
11/10/71

Fred Canham read a letter he had written to AMPEX to thank them for the use of the Cafeteria for our Auction. All agreed it was excellent.

As Secretary for the Menlo Park C-D Radio Club Vance Wardlow presented a letter to the City Manager of Menlo Park pointing out that our C-D Radio Officer, Dave Baker had died and there is a need for a new appointment. Robert Allen, W6WQD, was suggested as a qualified appointee for Radio Officer and Vance Wardlow, W6FLE as assistant Radio Officer. The letter was signed by Andy Korsak.

It was pointed out that the Raffle Committee must be very conscious of the fact that the raffle is the only source of funds for the coffee and doughnuts served at each meeting. The cost runs about \$5 per meeting. Thus to NET the \$5 the raffle must sell in the neighborhood of \$25 in tickets.

Gerry Laxson reports he has a 2 meter PC board in the making. Bob Allen suggests a dinner dance. Says his Club raised \$1000. He was appointed to investigate the possibilities for our Clubs.

B of D Meet (Cont'd)

Lee Zalaznik read the minutes of the last meeting. The subject of continuance of the 3 city coordinated meetings was discussed. It was suggested that a better plan might be the formation of a single 3 city Club. There were many ideas and suggestions. The concensus seemed to be that each Club was very jealous of its charter and accomplishments over the past years thus a single Club would not satisfy the needs of the many members.

Hal Moore and Gene Reynolds were appointed to the Committee to arrange for the Christmas Party.

The Committee to develop a Program of meetings for the Year 1972 was set up. Andy Korsak will chair the Committee and select members to assist him.

Gene Reynolds reported that he met with Greg Garcia, Jack McInerney and Larry Reed to discuss the Christmas Party.

Andy will contact Quements and Ham Radio Outlet for Xmas gifts. Larry Reed will contact Sees Candy, Hurrahs and others.

THE BOARD OF DIRECTORS WILL MEET AT THE TRAILER Monday 6 DECEMBER for a joint meet-

ing and PAARAGRAPHS assembly party.

Fred Canham reported on the CCRC meeting. W6MBT passed away.

Bill Ray is retiring as the Editor of CCRC CIRCLE. We will all miss Bills fine had in the preparation and publishing of a dandy paper. After 10 years he feels its time for new blod. We will miss Bill - hope he enjoys his retirement.

Don Johnson suggests that Bay Area Clubs sponsor the Greater Bay Area Hamfest next year.

The Field Day trophy now held by the San Jose Club eill be made available for competition next year.

The Powder Puff Derby will take off from San Carlos next July 7 1972 and the girls will fly to Toms River New Jersey. Our clubs will provide them with phone patch communications.

The SIMULATED EMERGENCY TEST in January was discussed and tabled for future action.

An "Honorary Advisory Board" consisting of old and active members was discussed. Concensus was negative.

* * * * *

JOIN THE CLUB
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7

FOR SALE

COLLINS 75A4 receiver with matching speaker, 3.1 KHz, 0.8KHz mechanical filters and Instruction Book. Serial # 4842 in excellent shape. \$350 or offer.

* * * * *

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* * * * *

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* * * * *

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- 2M preamp 417A front end w/power supply bilt-in \$ 4.00
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- Shure dynam Mic like Mod 51S 60-10KHz Cat at \$30 \$12.50
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BOB FERRARO K6AHV

SAYS

HAPPY HOLIDAY

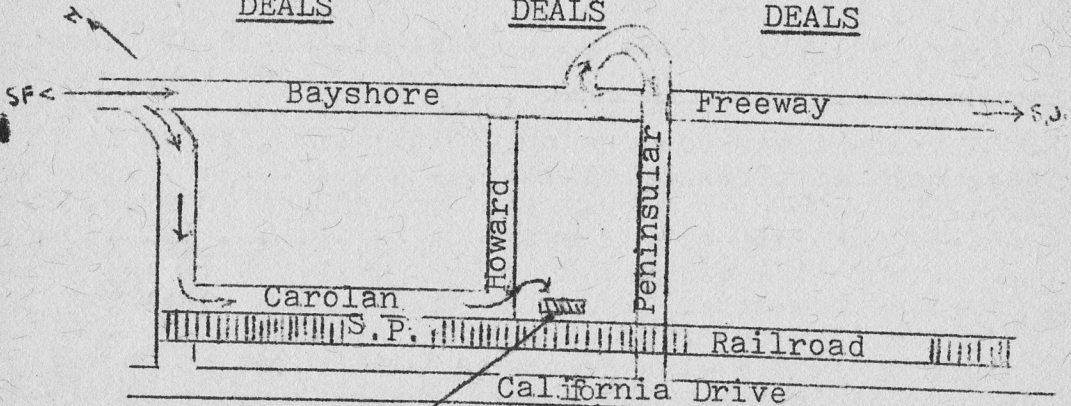
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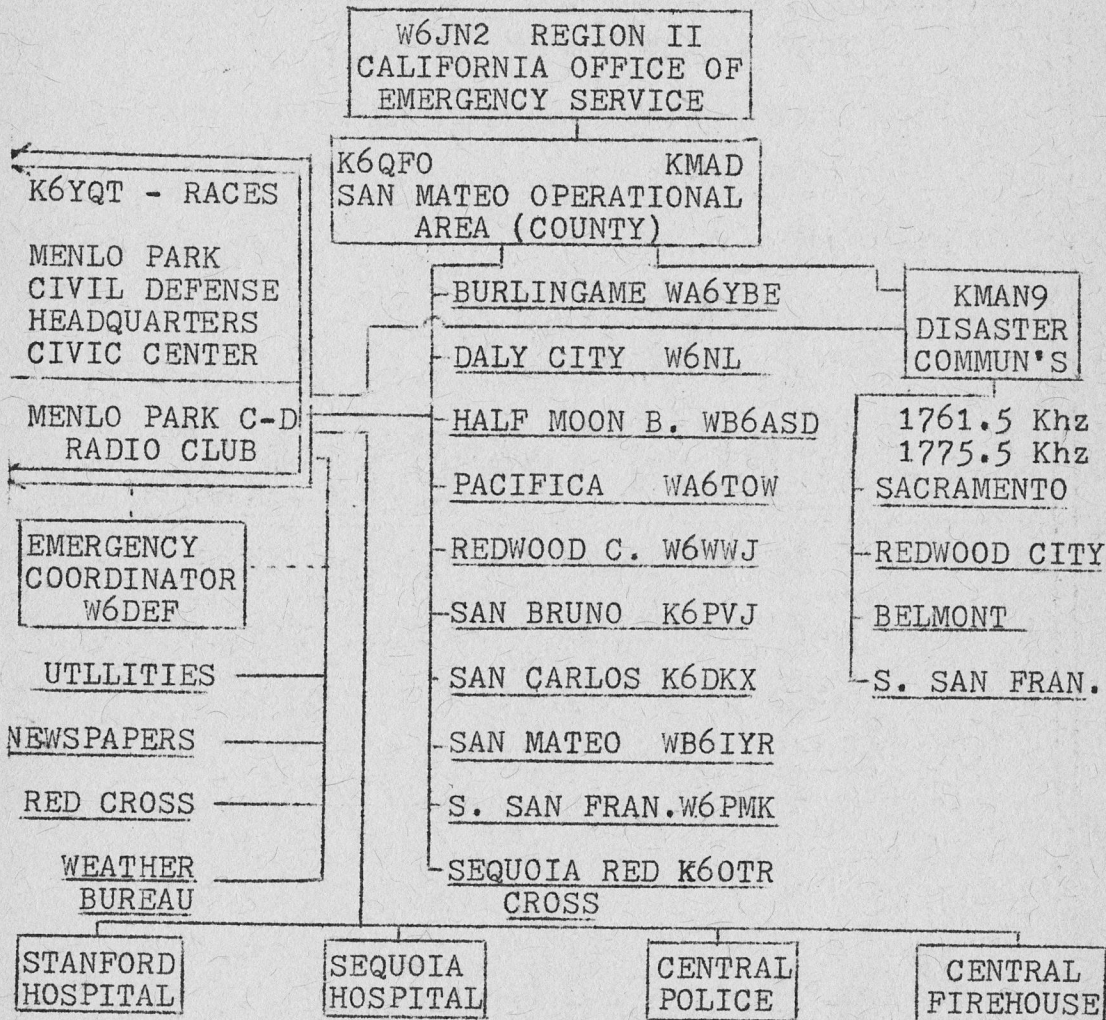
DEALS



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RADIO AMATEUR CIVIL EMERGENCY SERVICE

NATIONAL CIVIL DEFENSE ORGANIZATION



The RADIO AMATEUR CIVIL EMERGENCY SERVICE is designed to provide optimum communications using Amateur Radio operators. In the event of emergency threatening the security of the United States all transmissions by Amateurs would be prohibited. Qualified ARPSC's then man RACES.

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HAPPY NEW YEAR

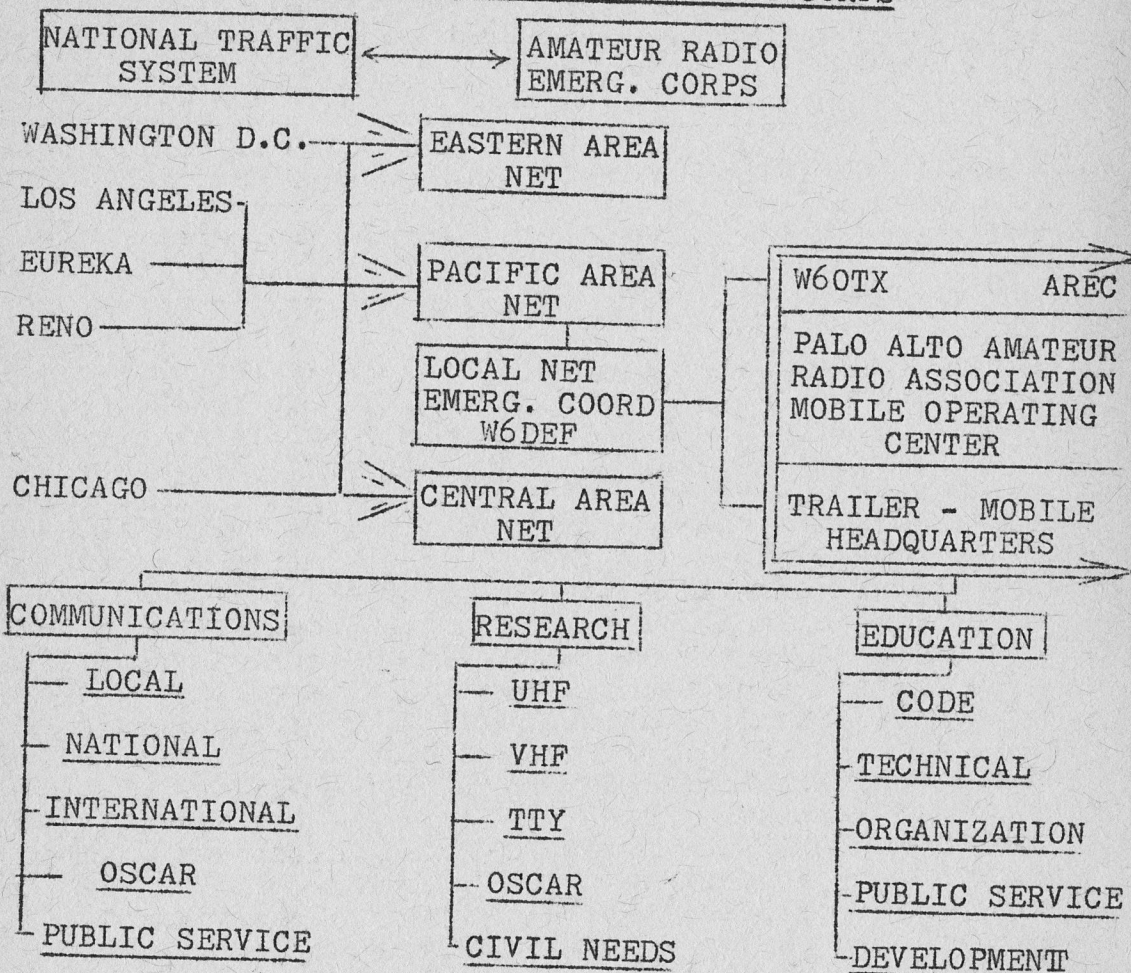
MAY YOUR NEW YEAR BE AS HAPPY AND PROSPEROUS
AS WE EXPECT AND HOPE OURS TO BE
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1972

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AMATEUR RADIO PUBLIC SERVICE CORPS



The AMATEUR RADIO PUBLIC SERVICE CORPS provides the organization within which Amateur Radio Operators, through, voluntary cooperation, may efficiently and effectively provide communications to and between citizens and friends as a public service.

Skills developed in this service become a national asset in times of emergency. In the event the security of the United States is threatened RACES is activated.

It was with a great sense of loss that I read in the last issue of CCRC CIRCLE that our long time friend and helpmate Bill Ray, W6KZF, has decided, after ten years of most faithful service as the Editor and Publisher of that excellent Paper, to retire from the fray. We Editors & Publishers have a special understanding of the utter futility often felt in our attempt to provide timely, accurate and helpful news to our readers. We must learn to erect an impenetrable shield against the ever present critics and backstabbers. At the same time we must be ever alert to accept and make use of honest and useful suggestions and contributions.

Bill I particularly hated to read your resignation notice. I sincerely hope you find another and more rewarding hobby. You can be sure those past ten years were of great value to all Hams in the Greater Bay Area. Good Luck. Vance.

+ + + + +

Did you hear of the Xmas party where a Turkey was the main prize but everyone got a goose as they came through the main door?

(Thanks HAYWARD CHEWED BIRD)

SIMULATED EMERGENCY

Bob Allen, W6WQD has been nominated as RADIO OFFICER for this area. He will face his first test in the coordination of the SIMULATED EMERGENCY TEST to be held January 28 & 29 1972. He and Vance Wardlow, W6FLE, will be calling upon all you PARTICIPATORS to get in there and pitch. We want to see at least ten MOBILE rigs out there picking up traffic and relaying it through the EMERGENCY station set up in the Trailer. Would like to see all our new younger members team up with our old timers and as a team really handle traffic. Take a look at pages 9 and 12. If we can man the circuits on page 12 we will be well on the way to preparation for an EMERGENCY.

+ + + + +

Once again let me thank Paul Churchill, W6QBY, for his fine donations to PAARA at the auction. It really helped the old kitty. TNX

+ + + + +

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Send \$4 to PAARA, P.O. Box 911, Menlo Park, Ca. 94025

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Phone: 968 8894

1-Meter Project TECHNICAL TOPICS de VE3FZK, Andy Korsak

I still did not receive the new IF integrated circuit I ordered from RCA so I put off any new designing till I get that.

SIGNETICS just called me at the office to say they are reviving their design of a complete AM-FM I.F. strip built around their phase lock loop, and so we may still pull out of the dragged out research project I got myself into trying to design such an I.F. strip myself.

AM TV PROJECT

Bob Allen and Jim Finnell, both PAARA members, along with some other interested individuals, have gotten the future W6OTX/TV station well on the way. I have been helping also, and it's sure a lot of fun. It's going to be a lot of fun for all participants when we get on the air and start sending ARRL and CD-drill bulletins, etc.

The other helpers are Wayne Ryder, W6URH, Jim Talt(call?) and ~~WJMH~~ Bjorn Forsberg (SM call/W6), and Elmer Shapiro (call?). Wayne brought us his 432 converter to try out, and it's a good design to copy but he said he knows of a p.c. layout for an up to date 432 conv. that he will try to find for us. Jim Talt lent us his 432 TV transmitter to try out when we have our camera working. He and Wayne came over to SRI on a couple of weekends when we were working on putting together our camera and they gave us a lot of good advice, as they have ham TV experience.

Bjorn set out to build us a KW 432 transmitter with a wide-band video modulator. He also came over to SRI with a borrowed solid state TV camera which we had some fun with but he had to return it right away. Bjorn has had a lot of experience with 432 construction in Sweden.

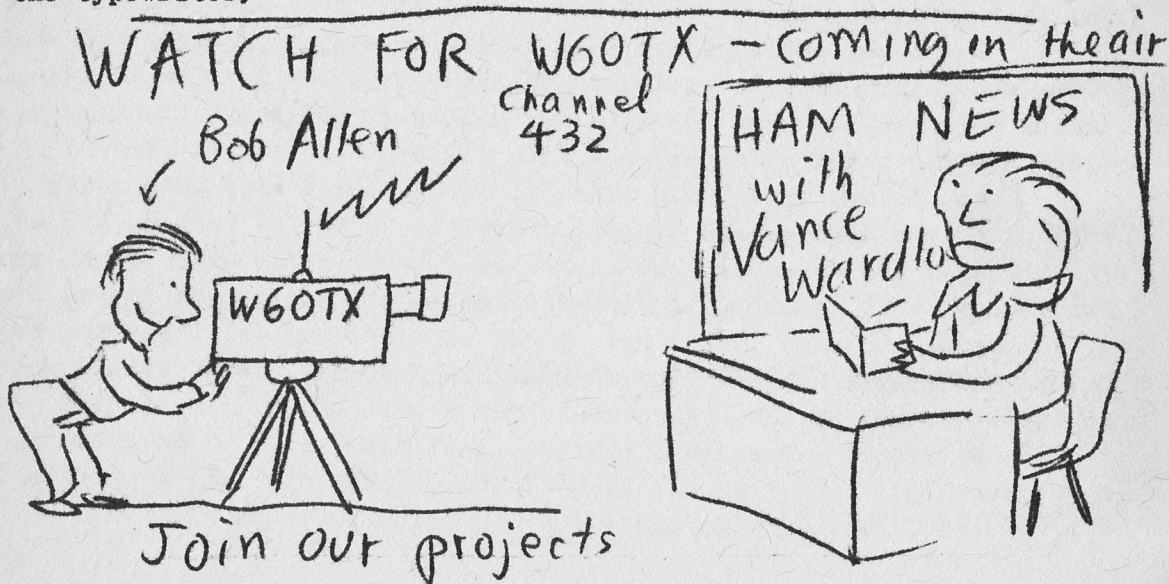
Bob Allen, W6WQD, Jim Finnell, W6DEU, and I have been madly working on the DAGE camera system donated to us by Ken Kerwin, K6UXO?, for the last few weekends, and in my case, just about every night and lunch-hour. Well, today I put the vidicon in its socket and lo and behold, I was seeing pictures, somewhat fuzzy at first but we'll get the bugs out of the system hopefully by the Christmas Dinner on the 17-th, and if so I plan to set up the camera there for all to enjoy.

Our W6OTX camera is a professional type, with an interlacing sync generator, and it should give studio quality pictures when finally set up right. We were also donated a \$500 high resolution vidicon by

Ken Kerwin, and as I wrote in last month's paper, we plan to extend our camera system to a COLOR camera, using a new invention at SRI. I guess we'll be the only club in the USA with a color TV station, although I understand there are some individual hams transmitting color TV, and there is one in the Bay Area apparently. Speaking of cheapie color TV, see the article below.

COLOR TV ADAPTER FOR B/W SETS

The Dec. 1971 issue of POPULAR SCIENCE has an article on a new color TV adapter for black and white sets that gives genuine color reception for under \$100. It's sort of related to the old CBS color wheel system which was abandoned years ago. The idea in it is this: a plastic endless belt with diagonal colored stripes very closely spaced moves in front of the TV screen at a speed synchronized with the color 3.58 carrier while the color decoded information is fed into an adapter socket on the picture tube. This system will work with any TV (under 20 in.) and apparently gives pretty good color reproduction but suffers from low light output because the striped belt and colored fixed stripes absorb about 75% of the light output of the picture tube. (Oops, I forgot to say before that the moving belt has only black and clear stripes, and there are additional colored vertical stripes it passes over. Oh well, you read the article and you can get the story straight -- I'm about ready to fall asleep here at the typewriter)



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CHRISTMAS SEASON AND COMING NEW YEAR

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MAN-1 7 segment readouts * * 7 Segment Digital Decade Kits
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merry christmas

happy new year

MERRY CHRISTMAS

HAPPY NEW YEAR

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IS
WORTH A LIFETIME OF TDIL !!

DALTON REALTY, 230 Hamilton Ave., Palo Alto, Calif.

SAN CARLOS BUGLE
Report of the San Carlos Radio Club

CHRISTMAS PARTY:

December 17, 1971---Happy Hour 7:00 P.M.---Dinner 7:30 P.M.
HARRY'S HOF BRAU 1909 El Camino Real, Redwood City, Calif.

Once again with the addition of new officers to our club and the coming of the month of December, the Tri-City Christmas Party is ahead of us. This is the one time of the year where the three clubs get together and try not to talk radio, (or not too much). Just as last year we meet at Harry's Hof Brau. The prices are reasonable and arrangements are more than adequate. Also to keep this more social than radio, you are asked to bring a gift, not to exceed \$1.50, and not pertaining to radio. Men please bring gift for a man and ladies bring a gift for a lady. Of course, bring the family and friends, the more the merrier. A raffle will be held.

Now a report on the long past but not forgotten Field Day. WE DID GREAT!

K6DKK/6 and WN6DVA/6 1149 QSO's----"B" 10-200 watts---Total 3338 pts. We were sixth in all of the 5 xmtr clubs. Also the highest #6 in the class. So, congratulations to all who participated and next year #1.

Connie our secretary reminds us, dues are due and payable for 1972. And remember NO DECEMBER BUSINESS MEETING.

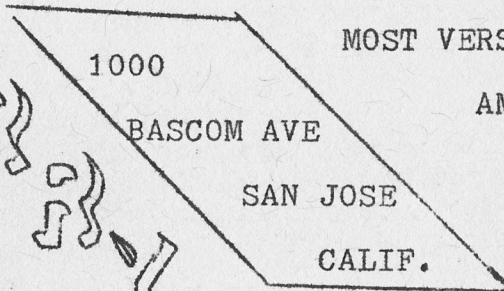
Thanks,
Mark Cherry
WA6HHN

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GIVE SANTA CLAUS AN ASSIST BY MAKING YOUR
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AREA

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WORLDS GREATEST SUPER-

MARKET FOR THOSE RADIO AND
STEREO GIFTS THAT YOU MUST GET

FOR THAT SPECIAL ONE IN YOUR
FAMILY. NEVER LET SANTA CLAUS SAY

THAT YOU DID NOT BEAR A HAND WHEN HE

WAS IN DIRE NEED OF A FRIEND. GO NOW-TODAY.

TRY QUEMENT ELECTRONICS

FOR THOSE

HARD TO

FIND

AND SPECIALLY

DESIRED

ITEMS

CHRISTMAS

