

W9OTX

W9OTX

PALO ALTO AMATEUR RADIO CLUB  
P.O. BOX 94025  
MENLO PARK, CA 94025

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P.O. BOX 94025

WELCOME ABOARD NEW MEMBERS

"LU" G. Clarke, WA6THE  
Lu works at SRI and has been a  
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Lu is an active experimenter  
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MENLO PARK

OFFICES

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WELCOME ABOARD

TO:

SUBPOENA DUCES

ADMINISTRATIVE

PRES: Andy Korsak, VE3FZK  
 V Pr; Bob Allen, W6WQD  
 Secty: Lee Zalaznik, WB6BJB  
 Treas: Vance Wardlow, W6FLE

APPOINTMENTS

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

BOARD OF DIRECTORS

Chmn: Andy Korsak, VE3FZK  
 Secty: Lee Zalaznik, WB6BJB  
 Member: 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, P.O. Box 911 M

SUPPORT YOUR CLUBGET INVOLVEDPAY YOUR DUESPARTICIPATEBECOME A PARTICIPATOR

\* \* \* \* \*

REPORT OF 5 MARCH MEETING:

Gene Sussli, WA6NVU, Pres. of the San Carlos Club opened the meeting with presentations to several members of his Club. To Bill Jackson, W6OWQ, went a beautiful plaque for "Outstanding Operator for Field Day 1970"; to Jack Pieece a fine plaque as a special award for "Devoted Service";

Gene announced that Jack McEnnerny, W6LII, is running code classes two nights each week at the Club's headquarters at the Fire Station on Industrial Ave., San Carlos. Anyone interested drop in at 8 PM or call Jack - 591 8526.

The floor was opened for discussion of Field Day 1971. Gene suggested that in making rules for the competition between the 3 Clubs that the

basic ARRL Rules be followed since San Carlos has the minimum number of members. Larry Reed, W6CTH, Pres. of SCARS, pointed out that his Club will man only one station and questions how they can compete with 3 to 5 stations. Phil Coombs, K6OEJ, SUGGESTED THAT SCARS make all the rules. Jerry Starkey W6LIJ, suggested a committee (Good old Air Force approach!) Gene appointed Larry Redd, Bill Jackson, and Andy Korsak. They will meet on 11 March. Gene suggested a small Cup as the annual award with an individual award for each Club to its outstanding participant.

The ARRL Bulletin setting up additional bandwidth on

OFFICIAL PUBLICATION OF  
**PALO ALTO AMATEUR RADIO ASSOCIATION**

# **P A L O A L T O R A D I O C R O W D I S**

**W6OTX**

**AFFILIATED CLUBS**

**K6YQT**

**PALO ALTO AMATEUR  
RADIO ASSN.**

**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 REGULAR MEETING

FRIDAY 2 APRIL, 8PM

AT

VETERANS MEMORIAL BUILDING, 1455 MADISON AVE., RC

FEATURE: BINGO! BINGO! BINGO! BINGO! BINGO! BINGO! BINGO! BINGO!

Bring the family along for a fine evening of entertainment for all of them. Many fine prizes.

Friday ? May: Magic night - "Houdini & Blackstone" - Don't miss 'em!  
Friday 4 June: Preparation and organization for FIELD DAY. Get in on the fun!

5 March meeting (cont'd)  
160 meters and reducing the  
EXTRA exclusive band areas.

Gene pointed out the need  
for Club representatives at  
the ARRL discussion meeting  
to be held 28 March in San  
Jose. He will represent San  
Carlos; Larry Reed will rep-  
resent SCARS.

Andy Korsak, VE3FZK gave  
a progress report on the 2  
meter project. It is slowly  
taking shape. Andy is getting  
some help from various mem-  
bers. (See his report on  
page 18 and 19).

All the above prepared us  
for the "Field" operations  
of Bill Holmes, in Alaska. He  
had stories of 89 pound cab-  
bbages; strawberries that could  
be packed 5 to a bag but  
required a crate for 6!; and  
the many problems of beating  
the snow in a field situat-  
ion.

\* \* \* \* \*

#### FOR SALE

New - never on the air -  
\$ 101 SSB Transceiver; and  
SB600 Speaker; HP23A power  
supply. (Lost interest in  
ham radio. Will sacrifice for  
\$350.00) Call office phone  
326 6200 ext 2841 or home  
327 3595, ask for Norm.

#### GIVEAWAYS

(Note: Steve Kaider, K6TV  
got the TCS-7 from Tom Shar-  
ples).

Chuck Linn, K6IQYZ MANOR  
TV, Menlo Park on the Alameda  
has moved next door. He has  
donated several power supplies

Gene introduced the spea-  
ker of the evening: BILL  
HOLMES, KL7FSD.

Bill opened by saying  
that he had some new mater-  
ial and some old. He has a  
wonderful series of color  
slides from all over Alaska.

We were presented with  
some of the finest slides  
ever taken of many types of  
operations in that north coun-  
try. Especially interesting  
were those of the several  
ham stations.

Bill pointed out that gas-  
oline sells for 78¢ a gallon  
so the old generator is run  
the minimum! He also mentioned  
that all Alaska natives  
seem to have snowmobiles -  
how they get them and run  
them while on welfare is a  
deep dark secret of the far  
north!

A FINE PRESENTATION, BILL,  
WE ALL ENJOYED. THANKS MUCH!

#### MORE GIVEAWAYS

to the Club. In the 200 to  
400 volt range. If you need  
any call Vance on 854 6064.

\* \* \* \* \*

Andy Korsak has a dandy  
power supply well regulated  
with filaments at 6.3, 5, 5, 3  
amps., 5V 3A and 660V 150ma.  
A natural for a novice stn.  
Call him 326 6200 ex 2853 or  
home on 854 2759.

\* \* \* \* \*

Chuck Linn also gave us a  
audio amplifier, old but good.

Al Doty, W6GAQ, donated  
a couple of loudspeakers and  
a HEATHKIT VTVM for Club use.

### A NEAR DISASTER!

Steve and Lola Kaider, K6TV & W6USE were returning from a pleasant trip to the SF airport. As they waited for traffic to turn left into their street, and just as they started the turn BAM! - they were rear ended and sent into a three turn spin. Fortunately it had sprinkled and the car did not overturn. However it sustained \$600 damage and both Steve and Lola were real twisted out of shape. Hope you recover quickly, folks, with no complications.

At last report Loyd Honey, K6GXH, was recovering slowly but surely from his heart attack. The Sequoia Hospital did a fine job of getting him back on his feet. Good news Loyd - keep up the good work.

Did you see the picture of Bill Luebke, W6EXX, in the RC Tribune? He is now Vice President of Varian Incorporated! Congratulations Bill!!! We well remember the days when you were a very active member of PAARA and hope for an eyeball QSO. Soo to renew acquaintances.

### THE GYPSIE CARAVAN

Don and Lucie Conrad, WB6NWX and WB6RFE leave for Japan on April 9th. They'll be gone a week.

Hal Moore, W6DEF and XYL will leave April 10th for Paris, Nice and Monaco. They will also be gone a week.

Ed Fairbanks, W6AIN, and his BW are away for a tour of the Hawaiian Islands. He didn't promise to bring back any orchids - but you can bet he will have some beautiful stories to tell!

Andy Korsak, VE3EZK, is just back from a trip to Atlantic City, N.J. None of this boring foreign travel for Andy! He goes where the action is! He went back to get the FAA back on a paying basis - compliments SRI.

### QSL'S

Speaking of travelling we think of those very pleasant QSO's through which we have all travelled to the far reaches of the earth! And that reminds us to remind you that if you haven't done so - get you envelopes to the ARRL QSL BUREAU, Box 11, Los Altos. Hundreds of QSLs are being sent to DX hams from their files. And to make the service SUPER W6WLV of Santa Rosa, WA6BYZ of San Francisco and W6DEF of Redwood City are handling hundreds of messages through the Northern California Net. They are providing this SUPER SERVICE for all you DX hounds who have failed to make sure your QSLs are sent to through the ARRL QSL BUREAU. Send 'em an envelope!

### JOIN THE CLUB

Don't be a non-participant

GET IN THERE AND PITCH

# J & H OUTLET

## SURPLUS ELECTRONICS

476 INDUSTRIAL ROAD

SAN CARLOS

PHONE: 591 7113

OPEN DAILY 9 - 5

HEY YOU EXPERIMENTERS

GOTAKE A LOOK AT WHAT JOHN HAS FOR YOU IN INTEGRATED CIRCUITS! HE HAS THE FINEST SELECTION AT THE BEST PRICES ON THE PENINSULA! ALSO SEMICONDUCTORS, TRANSISTORS, OPAMPS, DIGITAL COUNTERS - EVERYTHING ! ! ! !

IF YOU HAVEN'T LOOKED OVER THE STOCK AT J & H OUTLET YOU DON'T KNOW WHATS AVAILABLE

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J & H OUTLET HAS WHAT YOU WILL NEED. GO IN AND LOOK!

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John Has 'em!

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OFF THE BAYSHORE

476 INDUSTRIAL ROAD, SAN CARLOS,CAL. 591 7113

ARMED FORCES DAY

Armed Forces Day will be celebrated as usual with the opportunity given for hams to check in with Armed Forces Radio Stations operating just outside of the ham bands. All details will be in next month's QST. Its always real fun to check in with them on either CW or SSB, and its very easy. Just listen for them and they will state the frequencies they are monitoring. Zero-beat on that freq. and when they stand by GIVE THEM A BLAST! Exchange signal reports and they'll send you a QSL card. Then in the evening listen for their broadcast on CW and send in a copy - as easy as that! And FUN!

The MARIN AMATEUR RADIO CLUB annually participates in Armed Forces Day by their members going to Navy Station NPG at Skaggs Island and manning the circuits. Their coordinator is W6HLD. You just might want to spend a weekend with the Navy and REALLY get in on the action!

How many of you have taken advantage of (or passed the word along) Hal Moore's W6DEF, continuing service to the community by which he handles messages nightly through the Northern California Net? Our Club is real fortunate to have aboard a real PARTICIPATOR like Hal with a REAL sense of community service. If you don't have a message for Hal at least give him a "backpat".

HELP THE BLIND

Did you notice in the March issue of QST on page 3 that QST is available to blind and physically handicapped on magnetic tape from the Library of Congress? You just may be of real help to someone with a REAL need!

Hal Moore tells us that the Weather Net still convenes in the early mornings. W6DEF checks in at 5:35 for his report of weather on the "Salt Flats"! Lucie, WB6RFE, also is a member from "West Redwood City". Congrats Hal for another of your fine community services.

Some of you may be interested in the fact that the little raffle at the last meeting well supported by all those present. Such support makes it possible to serve the coffee and goodies. Gene Sussli wants all of you to know the San Carlos Club, with a small membership, really appreciates your help and participation.

JOIN THE CLUB

Do you have a friend who might get some good from belonging to a forward-looking, active and progressive group of PARTICIPATORS?

Don't let him miss the fun! Get him to the meetings, get him involved in some of our projects! Get him to JOIN THE CLUB!.

# HEATHKIT

## ELECTRONIC CENTER

1200 MIDDLEFIELD ROAD  
REDWOOD CITY, CALIF.  
PHONE: 365 8155

NEW

NOW IN STOCK

NEW

HEATHKIT WATTMETER/SWR  
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You asked for a low cost Heath wattmeter . . . and  
HERE IT IS

Two switch selected ranges allow measurement of RF output from 10-200 W & 100-2000 W. Built-in calibrator to 10% accuracy throughout the 80-10 M ham bands. Built-in SWR capability allows proper tuning, transmission line to antenna impedance matching. Ideal for antenna experiments.

DON'T FAIL TO GET YOURS NOW

AND

Did you know the famous HW-100 has been improved?

New 0.35 microvolt receiver sensitivity!

New 36 to 1 ball bearing dial drive.

New Selectable SSB or CW filters.

New front panel styling for most convenience.

COME DOWN AND TAKE A LOOK AT THIS PROVEN ITEM

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THE MOST RELIABLE

GET AN HW-100 AND YOU WILL KNOW YOU WILL BE TOP HAND

USE IT AS YOUR BASE STATION OR MOBILE

HEATHKIT ELECTRONIC CENTER

1200 Middlefield Road, Redwood City, Ca. 94063. Come in!

or

Phone: 365 8155

An interesting item from  
the Citrus Belt Amateur Rdo  
Club paper THE MODULATOR:  
WHY THE Hassle About The  
Laser?

If we give 1 megahertz a value of .1 inch, then 1 inch would contain 10 MHz, 10 inches - 100 MHz, 100 inches - 1 gigahertz, 1-1/2 miles - 1 tetrahertz (1,000,000 MHz) and we have just now reached infra red light, where the laser begins. From here the frequency range extends another 450 THz, or nearly 700 miles. Each inch of this 700 miles can carry the same amount of communication as all the frequencies below 100 MHz. How many bands will hams have in this new spectrum? Phil. WB6ETE

Phil, WB6ETE

Thru the MODULATOR - HANDY DANDY CONDENSER CONVERSION CHART

IF YOU ARE NOT A CLUB  
MEMBER GET AN APPLICATION  
AT THE NEXT MEETING.  
BECOME A PARTICIPATOR.

<u>FARAD</u>	<u>MICRO-FARAD</u>	<u>PICO FARAD</u>
1.		
.1		
.01		
.001		
.0001 ----- 100.		
.00001 - - - - - 10.		
.000001 - - - - - 1.		
	.1	
	.01	
	.001 - - - - - - - 1000.	
	.0001. - - - - - - - 100.	
	.00001 - - - - - - - 10.	
	.000001 - - - - - - - 1.	
Example: .0025 mfd = 2500 PFD		.1
150 PFD = .00015 MFD		.01
		.001
		.0001
Developed by the "Now You Can Be As Smart		.00001
As I Am" Committee of the Indianapolis		.00001
Radio Club, Inc.		.000001

Example: .0025 MFD = 2500 PFD  
150 PFD = .00015 MFD

Developed by the "Now You Can Be As Smart As I Am" Committee of the Indianapolis Radio Club, Inc.

Taken from Ham Hum  
Omaha, Neb.

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USED AMATEUR RADIO TRANSMITTERS AND RECEIVERS, CITIZEN BAND

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HOURS: 9 A.M. to 5 P.M.  
CLOSED SUNDAY

IT'S CHEAPER BY THE POUND!

YES WE WILL ACTUALLY SELL YOU EVERYTHING YOU NEED FOR A COMPLETE SET  
BY THE POUND!

IF YOU ARE IN NEED OF TEST EQUIPMENT YOUR EYES WILL FALL OUT  
WHEN YOU SEE OUR FINE SELECTION OF FIRST CLASS EQUIPMENT - A WHOLE ROOM  
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TRANSISTORS, OPAMPS, CIRCUIT BOARDS WITH AN ASTOUNDING SELECTION OF VERY  
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AN EXCELLENT SELECTION OF TUBES AT .50¢

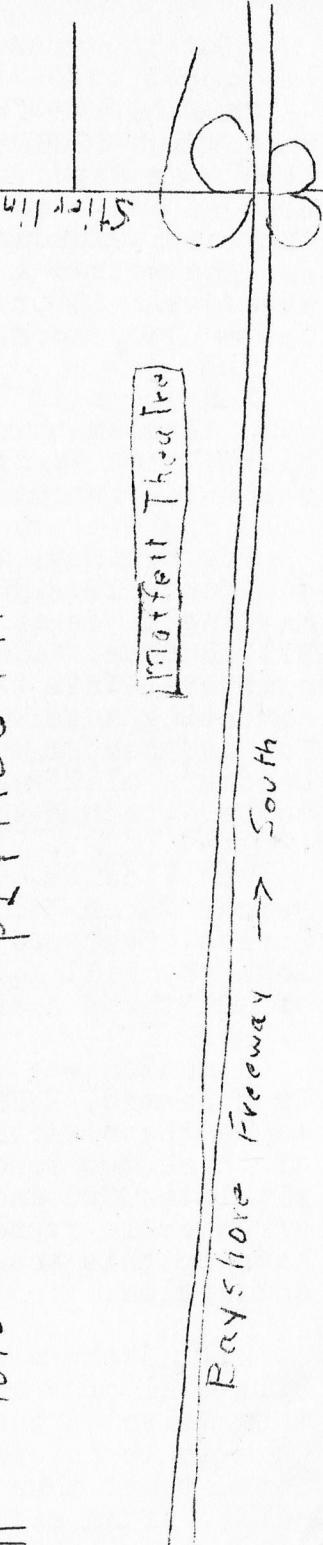
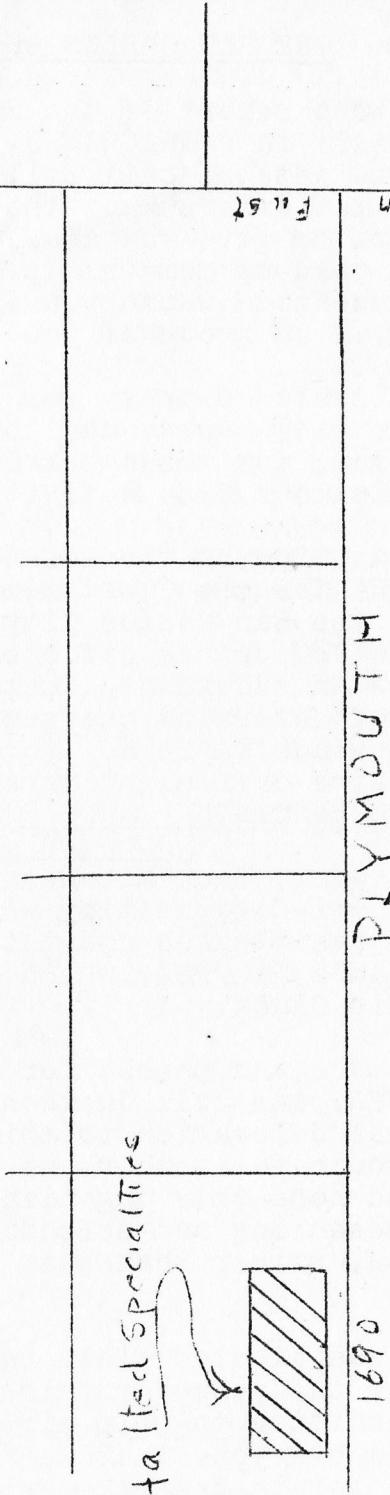
REMOTE CONTROL CORDS = SWITCHES FOR EVERY PURPOSE - HIGH SPEED FANS

METAL CABINETS OF ALL SIZES FOR EVERY PURPOSE

CONTROL PANELS - MOBILE VHF EQUIPMENT - MICROPHONES - GEAR TRAINS - ALL

COME ON IN AND BROWSE AROUND

WE ARE CENTRALLY LOCATED - JUST GO DOWN THE BAYSHORE FREEWAY AND TAKE  
THE STIERLIN ROAD TURNOFF EAST TO PLYMOUTH, TURN LEFT TO OUR PLACE.  
1690 PLYMOUTH AVE



12  
THE SAN CARLOS BUGLE

This is the first report of the San Carlos C-D Amateur Radio Club (SCCDARC) in PAARAGRAPHS. As President of this Club I am happy to get the ball rolling and report to our members and also let others know that we have a small, but very active group. To give you an example, at the last meeting we had a paid-up membership of 15 and the roll-call showed all 15 present! How can you improve on that? Keep up the good work, I am proud of you.

I would also like to express our sincere thanks to the Palo Alto Amateur Radio Assn. and their editorial spark-plug, Vance Wardlow, for the opportunity to use this publication for reporting our Club activities.

The business meeting of the SCCDARC was held on Thursday March 18, 1971 for the first time at our brand new meeting place at the San Carlos City Hall. Our thanks to Bill Burris, VA6CXJ, for his efforts in securing our new quarters. This is an excellent location but this new shag carpeting sure kept everyone charged to his full potential! Too bad Benjamin Franklin is no longer around or he could become a millionaire over night marketing a lightning rod to be attached to people.

Our Vice President, Jack McEnnerney, W6LII, reported on Friday March 5th Tri-City meeting which was hosted by San Carlos. Everyone was pleased about the outstanding travelogue by Bill Holmes, KL7FSD, which was well attended by all three Radio Clubs.

A motion was made and passed for our Club to join CCRC. Fred Heward, K6EER, and Bill Jackson, W6OWQ, were elected to be the official delegation to this body. With the help of these two resourceful members we will infuse a new spirit into CCRC and hope this organization will become much stronger in representing and defending the interests of all hams in this area, rather than just to report on Club activities.

Bill Jackson was elected Field Day Chairman for 1971. Bill will draw up the rules for this years operation and then select a committee to help him organize this affair. This is to inform everyone that we are out to win this contest and then get to keep the Tri-City Trophy permanently, after safe-keeping it for the next 3 consecutive years.

(SCCDARC Cont'd)

As authorized by the membership some time ago, we finally elected a Board of Directors to guide the affairs of the Club. The Board will be made up of the current President, Vice-President, and three members with staggered terms of 3, 2 and 1 years, and the Club's Secretary as a non-voting member. The election produced these results for the three members:

Bill Jackson, W6OWQ (3 year term);  
 Ray Allustiarty, W6JOV (2 year term);  
 Jack Pierce, WA6CCH (1 year term).

By virtue of their current office, the following will join the above to complete the Board:

Gene Sussli, WA6NVU President;  
 Jack McEnnerney, W6LII Vice-President;  
 Mike Bach WN6FFC Secretary.

The first Board meeting will be Thursday April 8 1971 at 8 PM at Bill Jackson's. The agenda will include the internal organization of the Board and the revision of the Club constitution and by-laws.

Who checked into the Peninsula Net recently on Wednesday night? Remember, we meet on 28,625 at 7:30 PM. By the way, an excellent idea by Fred Heward, K6EER, is to use this gathering for an on-the-air classroom to prepare all of us for the EXTRA class license. Fred is well qualified as a teacher, having held such classes previously for the Canadian Air Force and also for MARS members. Fred volunteered his services for this job. Well, it isn't Fred alone. Who has a better idea?

The best wishes for a speedy recovery go to Bill Burris WA6CXJ, from his recent operation and to Al Blakeley, WB6RUV, who is on his way back up from a heart attack last January. Good luck fellows.

My very best 73's

Eugene Sussli, WA6NVU

\* \* \* \* \*

Ed Note: Hey it is a real pleasure to hear from a live wire outfit like San Carlos. All you hams in that area better get going and get in on the fun!

When you get a bunch of "Winners" together there is nothing that will stop them. Lots of Luck fellers and keep up the good work!

Vance

JOIN THE CLUB

BECOME A PARTICIPATOR

DON'T BE AN  
APRIL FOOL!

DON'T MISS ALL THE

BARGAINS AT !

Red Johnson's Electronics

- Resistors , pots, switches, sockets, plugs,  
etc. etc.
- all beautifully organized so you can  
find what you're looking for

HOURLS:

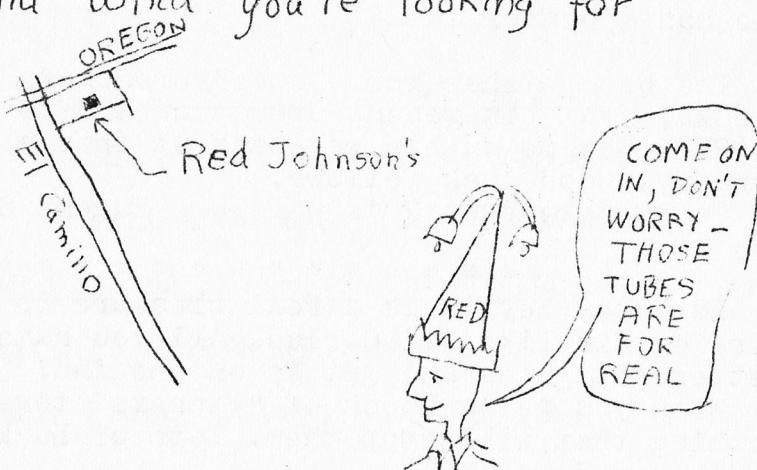
M-F 6AM - 8PM

Sat 8AM - 6PM

Sun 10AM - 2PM

326-6085

440 PEPPER  
PALO ALTO



BULLETIN BOARD?

I don't know about you but I have the very devil of a time trying to correlate the bodies with names calls and QTHs. This is one of my big embarrassments at each meeting. I can usually get at least one factor right but at least one will invariably not be recallable.

Have recently seen a suggestion that the Club have a bulletin board on which is posted the QSL card of each member together with a PICTURE to identify the member.

What do you think? Is it practical to set such a bulletin board up. It would have to be portable so we could take it to the various meeting places.

How about it?

\* \* \* \* \*

AMATEUR LICENSE CLASSES

As said before if there is a need for Amateur Radio Classes let us know and we will either set one up or steer you to one that is now going.

There is such a class now in progress at the Los Gatos High School on Tuesdays from 7 to 9 PM. The West Valley Radio Club sponsors it and the instructor is a Lockheed Engineer.

There is a notice on the Bulletin Board at Quements, 1000 Bascom St., San Jose give the dope on another class.

And you all know about the classes being conducted

by Jack McEnnerney VP of the San Carlos Club at the Firehouse on Industrial Ave., in San Carlos. Call Jack at 591 8526 for times and dates.

\* \* \* \* \*

Here are some schedules of broadcasts on the ham bands in different modes:

W6ZRJ - Tuesday evenings:

7:30PM, 3590 & 7129; A-1

8:30PM, 3615 & 146.0 F-1F-2RTTY

9:00PM, 3815 A-# SSB

W6ZF - 1st & 3rd Mondays

8:00PM, 3540; A-1

K6DYX - Each wednesday

7:30PM, 3590 & 7129; A-1 20WPM

Each Monday

7:30, 3620; F-1 RTTY

9:00, 3620; F-1 RTTY

Each Sunday

7:30PM, 3690 & 7025 Hi Speed

WB6HVA - Monday & Friday

7:30PM, 3590; Code practice

WA7BEU - Each Wednesday

7:30PM, 3620; F-1 RTTY

W6QIE - Daily except monday

8:00PM, 3590, 1½ hrs code.

K6TX - Each Sunday

4:30PM 14,280 SSB, Bulletins.

W60WP - See QST Code proficiency.

\* \* \* \* \*

**JOIN THE CLUB NOW AND**

**DON'T MISS THE FIELD DAY FUN**

**BE A PARTICIPATOR**

CIVIL DEFENSE

We are slowly making progress in getting our Civil Defense organization set up as a functioning entity. Dave Baker, W6WX, after 5 months of delay through many layers of organization, received official notification of his appointment as Radio Officer for the City of Menlo Park. Of course the appointment was immediately followed by requirement for more paper work. However it must be accepted that the present day Civil Defense organization is one mostly composed of plans and form designed to provide a basic concept which may be set in motion when the need arises. The whole concept of the organization is based on probabilities and the present day attitude is that the probability of an enemy attack is very remote. *Ipsso facto* - the only requirement is a plan in the file!

Larry Reed, W6CTH, attended the annual ARRL Pacific Division Directors meeting in San Jose on the 28th. He reports that the proposal by FCC to expand the phone bands was given a "yes" vote. There appeared to be no other items of importance. At least they didn't impress Lary! There was a good turnout and "Doc" Gmelin had a few choice words to say. Hope Doc received enough guidance to let him really represent all of us.

Larry reports that he made a big "swap" with Bill Jackson. Larry ended up with a Mod. 28 TTY and Bill with a Viking KW linear. Both are very happy with the deal.

Larry has been setting up his slow scan TV and recording it in tape for play-back. He will give us a demonstration at the June meeting. All you TV hounds should gather around and get some real dope.

\* \* \* \* \*

Bob Allen, W6WQD reports the principal of Wilbur Jr. High School in Palo Alto is planning on setting up a class (evening) for amateur radio. He is looking for an instructor. He has a complete setup of Heathkit gear and needs someone who can get it in operation for the students. Classes will be every other friday and will cover radio, electronics and code. He envisages the students using the instruction for setting up control for model airplanes etc. If you are interested go to Wilbur Junior High in Palo Alto.

\* \* \* \* \*

DON'T FAIL TO PAY  
YOUR DUES

Your Club need your support. If you are not a member get on the ball - pick up an application and pay up your dues. Get in on a project.

BECOME A PARTICIPATOR

FIELD DAY

June seems a long way off right now - but time rolls on and has a habit of creeping up on us. Fred Canham, W6QWF, got together with Larry Reed and Bill Jackson for some preliminary planning on just how to set up a fair and equal competition between the 3 Clubs in this area. Many suggestions were made and plans outlined. No firm solution came out of the meeting. However Fred did take the QSTs for the past several years and averaged out the scores for the top ten each year in each category. From this he has evolved multiplication factors which appear to somewhat equalize between a 1 station 3 station and 5 station set-up. He will present this to the committee for further discussion and a decision as to what should be recommended for the equalizing factor.

Fred has also prepared a fine questionnaire which we will send to all PAARA members. This will give us some planning data from which we can decide just what will be the potential for the Club this Field Day.

Dave Baker says he has an excellent location up in the hills which he just may be able to make available to PAARA for their set-up. We are depending on Dave for our expert on DX contacts - and a high score!

GET READY FOR FIELD DAY

Andy Korsak is planning on having a prototype of his little 2 meter rig all set to go for Field Day. With his low power he expects to make a score that will put the high power fellers to shame! ! ! !

ANOTHER GIVEAWAY

Ed Fairbanks, W6AIN, brought over an airplane type AM broadcast band receiver. It works from 28 volts DC and gets its power from a small generator. Anyone want it? Call Vance 854 6064

Speaking of high power - Hey you Calif Kilowatters take a look at page 20 of March QST. W4ZRJ is really going high power! from 2 watts to 5 watts ! ! ! ! Guess Ken Wilder isn't doing so bad after all ! ! !

DON'T FORGET

The Pacific Division ARRL convention at the Hyatt House in San Jose on July 2,3 & 4. For info address P.O. Box 6, San Jose, Ca. 95103.

\* \* \* \* \*

Dave Baker, W6WX, reports he contacted 800 stations during the DX contest on 13 - 14 March! Boy what a record. Good going Dave. Now we KNOW you're going to have to participate in OUR Field Day come June.

\* \* \* \* \*

Hey! any of you novices or others wanting to go UP in class need help? Call us.

## TWO-METER PROJECT REPORT Andy VE3FZK/W6

I haven't much to report this month, unfortunately, as I was away on a business trip to Atlantic City and didn't get much done myself. I just called up all the project team members I could get through to and it appears I'm not the only one who doesn't have much to report, so I don't feel so bad now! Bob Stein, W6NBI (ex-WA6IC), seems to be the most active -- he has been building up oscillators to see if he can come up with a suitable one for the front end. He also put us on a good lead for cheap parts-- ~~gxxx~~ got me in contact with a friend, Bob Melvin, W6VSV, who owns a parts distributing company, and sent me some samples of fixed and variable capacitors and data on integrated quartz crystal filters which are far superior to the ceramic ones I am using now, and cost only \$4.45 for 10-49. I guess we can get them cheaper still if we collect 100 hams wanting to build the finalized transceiver.

Just as a review, here's where we stand on the project:

1. We have a team organized with tasks accepted as in the list further below.
2. We have a satisfactory IF,FM-AM demodulator p.c. board (bread-board only, not finalized for copying)
3. We have a working front end model but lacking in stability and sensitivity.
4. We have a 12v. to 13v. (regulated) d.c. converter, but it puts a strong 10 kc interference on the 12v. line because of high peak current pulses I can't seem to get rid of.
5. We have a squelch-AF preamp p.c. board (bread-board) that is in pretty good shape except for a lack of discrimination between true noise and hi's in the modulation coming into the noise amp of the squelch. I got a good circuit from Bill Hearn at Signetics for an 18db/octave roll off high-pass filter using only one op-amp. I have it partially installed and plan to get rid of the squelch foul up shortly.
6. We have had available several transmitter module bread-boards since last year but the Tx boys are waiting for the Rx team to come up with a comparable piece of hardware before any mating can be started.

## LIST OF PROJECT TASKS

TASK	TEAM MEMBER(S)
1. Prototype IF-Demod. p.c.board	Andy Korsak VE3FZK Gus Guthoerl W6GIH Bill Riccherson WA6VGR
2. VFO, plug-in, Vackar osc.	John Ellison W6AOI
3. Pwr. sup., 115v.-12vdc, 13vdc	Les Vickery W6AKR
4. Pwr. sup., portable, 12v battery pack, 12 to 13v conv.	Lee Zalaznik WB6BJB
5. Portable ant: whip, quad	Gene Sussli WAGNVU
6. Tuned converter with RF stage	Bob Stein W6NBI

7. Suppressed carrier AM transmitter module Mike Bach WN6FFC  
 8. Efficient multivibrator d.c. converter for port. pwr. sup. Frank Robins K6KUM  
 9. Modifications for Red Johnson's stereo amp. as AF amp and mod. Harley Gabrielson K6DS  
 10. Transmitter modules Gene Reynolds K6COM  
 11. Instruction manual editor Cliff Buttschardt W6HDO  
 Bob Moser W6TUM  
 Glen Tomlin WA6KKK  
 Doc Laxson WA6OPA
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### TRI-CITY CLUB ATV ACTIVITIES

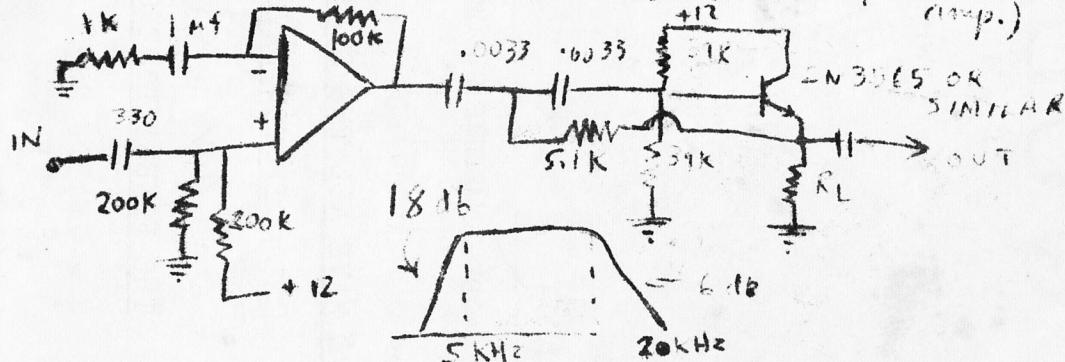
Bill Jackson of the SCARS club has etched a set of vidicon camera p.c. boards and has many copies available-- so if you want to get on ham TV on the 420 MHz band with a fine but easy to make camera contact Bill at the APRIL 2 meeting. Bill has put several guys on the air already so dont be afraid it's too hard to do.

### SLOW SCAN TV HITS SCARS!!!

Larry Reed has caught the slow scan bug-- he's waiting for the monitor to arrive which he ordered, and he has already a collection of "movies" on tape. He plans to use these and also a live demonstration at the June meeting. Too bad you can't get as "interesting" pictures on slow scan as the UHF boys have up on 432, Larry-- keep looking for those Swedish stations on 20 and 15, Larry, maybe you'll see something exciting yet!

Those of you who don't want to cough up \$400 can look up CST for articles on homebrew slow-scan cameras and monitors-- June 1970 and March 1971. Larry knows all the specs on slow scan and how it works so give him a call if you are interested, 591-9000.

### Bill Hearn's Noise Filter (for squelch noise amp.)



# QUEMENTS

March 71

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