

PAARA

Graphs

MARCH 1989



**PAARA
FLEA
MARKET
FOOTHILL
COLLEGE
APRIL 8**

THE OFFICIAL NEWSLETTER
OF THE PALO ALTO AMATEUR
RADIO ASSOCIATION

AND

THE MENLO PARK C.D. AMATEUR RADIO CLUB

PALO ALTO AMATEUR RADIO ASSOCIATION



PAARA



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PAARA POLICIES

Membership in PAARA is \$6.00 per calendar year which includes a subscription to PAARAgraphs. Make payment to the Palo Alto Amateur Radio Association, P.O. Box 911, Menlo Park, CA 94026

Club Net 147.45 MHz Mondays 8:30 PM

Meet at 7:30 PM on the first Friday of each month at the Menlo Park Recreation Center.

Send PAARAgraphs correspondence to:

CHUCK JOHNSON, EDITOR
3309 MOUNT LOGAN DRIVE
SAN JOSE, CALIFORNIA 95127

PAARA BRIEFS

KUDOS TO CRAIG SMITH N6ITW ON HIS NEW TOWER SYSTEM, WHICH HE PUT NO LITTLE OF HIS OWN SWEAT & MUSCLE INTO, ESPECIALLY WITH EXCAVATION & TAKING CARE OF THE TREES THAT POSED A CHALLENGE. FB RESULTS NOW SPEAK FOR THEMSELVES! -ED.

BIG SKEDS WITH WB6JFH DAVID HARPER IN WASH. STATE & K6JJU JOHN & THE GROUP. SUNDAYS: 26 FEB, 12 MAR, 26 MAR-- 9:30 AM PACIFIC TIME. FREQ: 14.315-120. BE THERE OR BE SQUARE. (de WB6JFH ES K6JJU).

SEE MAY PLANNING CALENDAR HEREIN. -ED.
FLEA MARKET DATES/FOOTHILL COLLEGE:
MARCH 11; APRIL 8 (PAARA)!!!; MAY 13;
JUNE 10; JULY 8; AUG 12; SEPT 9. DE WA6ROM...

INTER-EDITORIAL NOTE:

SPECIAL TNX TO NCDXC EMERITUS EDITOR JIM MAXWELL W6CF, WHO SHOWED YOUR EDITOR THE FINEST HOSPITALITY RECENTLY. THIS CURATOR PAR EXCELLENCE OF RADIO BIBLIOGRAPHY & HISTORY DEIGNED TO SHOW YOUR EDITOR THE GLORY AND RICH TRADITION OF THOSE WHO MADE THIS AMATEUR SERVICE WHAT IT IS. THIS STATESMAN OF HAM RADIO EXEMPLIFIES THE SPIRIT OF THE THINGS HE SO CAREFULLY COLLECTS AND SO INTIMATELY KNOWS ABOUT. THAT HE HAS MADE A DX MISSION OF HIS JOURNEYS THROUGH BOOKLAND, TO FIND THE RARE AND EVEN PRICELESS RADIO BOOKS, ONLY SHOWS THAT HE IS THE ESSENCE OF AMATEUR RADIO. I AM HONORED TO CALL HIM MY FRIEND, AND PERHAPS EVEN MY MENTOR. -ED.

SPECIAL TO PAARAGRAPHS.
TNX BOB! -ED.

ATV

South Bay

by Bob Reiling W6JHJ

Amateur Television (ATV) activity is on the increase in the South Bay with many amateur radio operators now regularly sending pictures to each other. The increased activity can be attributed to the television repeater now in operation south of Palo Alto on Black Mountain. This repeater began daily operation last summer and is sponsored by the Palo

of trees or other obstructions in order to get satisfactory results. Excellent pictures will be obtained with a good signal path and ATV equipment.

The Palo Alto Chapter of the Red Cross has sponsored the group buy of a 2.4 GHz receiving system that

connects to your TV set. Each system includes a 20" parabolic antenna, associated down converter, power supply, and 60 feet of RG-59 coaxial cable. This receiving package costs about \$73 when purchased with the group buy plan. Usually groups of 50 are required in order to obtain this very reasonable price. About 200 receiving packages have

The repeater is regularly in operation from about 5 P.M. to 12 midnight. An information screen is transmitted when the repeater is not being used by ATV operators. Control operators are available to turn the repeater on at other times. The ATV two meter coordination frequency is 145.51 MHz simplex. In addition, control operators monitor the two meter 145.27 MHz repeater.

A good time to learn more about ATV is on Thursday night when the ATV net is run at 8:45 P.M. on 145.27 MHz for audio check-in as well as ATV check-in on the TV repeater. It isn't necessary to have ATV equipment to be a part of the net—everyone is invited who is interested in ATV.

FROM THE EDITOR'S DESK

AS OF THIS ISSUE, YOUR EDITOR WAITS FOR THE TICKET TO COME IN VIA CAPE HORN... QST QST: WE HAVE THE '89 FOOTHILL FLEA MARKET SEASON TO PLAN FOR-- ESPECIALLY PAARA'S DATE ON APRIL 8. OFFER YOUR SUPPORT TO THE CLUB FOR THAT SATURDAY & YOU WILL BE A PART OF A GREAT TRADITION OF FUN & SERVICE. SEE YOU THERE! TIL NEXT MONTH, 73 DE YOUR EDITOR.

SPEAKER OF THE MONTH

B OB STEIN W6NBI --

--FROM MOUNTAIN VIEW... TOPIC: "A PROGRAM DEMO FOR LONG YAGI ANTENNA (VHF/UHF) ARRAYS BASED ON DL6WU DESIGN." KAISER ELECTRONICS' JERRY HAIGWOOD KY4Z, IN TANDEM WITH BOB NBI, WROTE THE PROGRAM. TALK & DEMO & ACTUAL DESIGN TO YOUR SPECS WILL BE FEATURED. MINIMUM WAVELENGTH IS 2.2 (THIS PUBLIC DOMAIN PROGRAM IS OK TO DUPLICATE. BRING AN IBM PC CLONE-COMPATIBLE 360K DISK TO MAKE A COPY. ANALYSIS BY MINI-NEC ALSO AVAILABLE. ***NOTE: SOMEONE BRING A BETTER COMPUTER THAN ANDY'S "STANLEY STEAMER", TO FACILITATE FASTER RESULTS: NEED AN 80386 OR 80286 AT WITH EGA CARD FOR COLOR & SPEED. CONTACT ANDY TO COORDINATE SOMETHING+++

DINNER WITH SPEAKER: SU HONG'S, EL CAMINO OFF RAVENSWOOD, MENLO PARK, 5:45PM ON MEETING FRIDAY MARCH 3RD! DE ANDY VE3FZK.

PRESIDENT'S CORNER

THIS HAS BEEN A BUSY MONTH. I ATTENDED THE FEBRUARY CCRC AT W6QIE'S QTH. THIS GROUP IS UNDERGOING A RATHER ENERGETIC REVIVAL DUE TO THE LEADERSHIP OF LOREN STYLES (CALL). DAN CURRY WB6STW HAS AGREED TO BE PAARA'S REP TO THE CCRC. MEMBERSHIP IN CCRC COULD BRING US BENEFITS SUCH AS SPEAKER AVAILABILITY & REGIONAL INFORMATION ON HAM ACTIVITIES.

THE OLDE GREEN PAARA GENERATOR HAS BEEN RESURRECTED FROM THE SCRAP HEAP. IT'S BEEN IN THE DRIVEWAY OF YOURS TRULY FOR AT LEAST 6 MONTHS & HAS GOTTEN RE-RINGED, THE HEAD & BLOCKS HAVE BEEN MILLED, & VARIOUS WORKING PARTS HAVE BEEN RESTORED. ITS OUTPUT IS 4KW WITHOUT A HICUP. FOR A COMPLETE LIFE STORY OF THIS HISTORICAL ARTIFACT, CONTACT K6YT.

PAARA WOULD LIKE TO EXTEND ITS THANKS TO GEORGE CALLENDER WB6FZX FOR DONATING HIS 50 FOOT TOWER TO THE CLUB. IF YOU'RE INTERESTED IN SUPPORTING THE PAARA PORTABLE TOWER PROJECT, GET IN TOUCH WITH ME.

73

WA6LNV

APRIL 1989
 SUN MON TUE WED THU FRI SAT
 2 3 4 5 6 7 8
 9 10 11 12 13 14 15
 16 17 18 19 20 21 22
 23 24 25 26 27 28 29



EMERALD

May 1989



LILY OF THE VALLEY

JUNE 1989
 SUN MON TUE WED THU FRI SAT
 4 5 6 7 8 9 10
 11 12 13 14 15 16 17
 18 19 20 21 22 23 24
 25 26 27 28 29 30

SUN	MON	TUE	WED	THU	FRI	SAT
	1	2	3	4	5 PAARA REG. MEETING	6
7 NEW MOON 5	8 HARRY TRUMAN	9	10 PAARA BD MEETING 1ST TRANSCON. R.R. COMPLETED 1869	11	12	13 FOOTHILL FLEA MKT.
14 MOTHER'S DAY	15	16	17	18	19	20 W6VG SPRING PICNIC
21 LINDBERGH FLIGHT	22	23	24	25 RALPH W. EMERSON	26	27
28	29 MEMORIAL DAY	30 TRADITIONAL MEMORIAL DAY	31			

FIRST QUARTER 12 FULL MOON 20 LAST QUARTER 28

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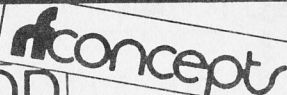
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It isn't difficult to get on ATV and exchange pictures in full color or using standard NTSC TV video signals. You need a camera or a computer that can generate video and a transmitter to send the signals to the repeater. Input to the repeater is on 426.25 MHz, 434.00 MHz, or 910.25 MHz.

Receiving the TV signal is accomplished with a down converter that converts the 2.4 GHz repeater transmitted signal to TV channel 3 for display on your home TV receiver. Audio can be sent and received also.

A note of caution is in order for potential ATV operators—you must have a direct line of sight transmission path to Black Mountain. The path must be free

been distributed so far.

For transmitting, a color video camera such as that used with many VCR systems is just fine for supplying video to your transmitter. The transmitter may be selected to operate on the 426/434 MHz frequencies or the 910 MHz frequency. Transmitting equipment is available from PC Electronics for operation on these bands. A linear amplifier will probably be required in order to put a good signal into the repeater. Operation with as little as one watt is possible but the picture quality will not be very good. A 20 to 100 watt output is a good idea with a beam antenna pointed at the repeater. On 910 MHz a 20 watt amplifier with a 16 to 17 dB gain transmitting antenna works well.

Down Converter Information Package—telephone Ted (415) 851-4991

ATV Catalog—PC Electronics, 2522 Paxson Lane, Arcadia, CA 91006-8537, telephone (818) 447-4565

Microwave Antennas and Linear Amplifiers—Down East Microwave, Box 2310, RR1, Troy, ME 04987, telephone (207) 948-3741 (9 A.M. to 2:30 P.M.)

Ham TV Magazine—Amateur Television Quarterly, 1545 Lee Street, Suite 73, Des Plaines, IL 60018, telephone (312) 298-2269. Subscription 1 year \$15, two years \$25.

ATV Repeater

Location: Black Mountain

Output Frequency: 2.4 GHz

Input Frequency: 426.25 MHz
434.00 MHz

910.25 MHz

Repeater Call Sign: WA6CGX

Technical Information Contact Telephone (408) 241-3508

KA6JLT-2 BBS

QST DE ROB KA6JLT

THE KA6JLT-2 BBS, MENLO PARK, ON 144.93 MHZ HAS CHANGED OVER TO AN IBM PC XT, WITH ABOUT 18 MEGABYTES OF DISK STORAGE.

THE BBS IS NOW ON A BACKBONE SYSTEM-- THE 220 MHZ BACKBONE SYSTEM. THE MACHINE IS NOW FUNCTIONING AS A FULL-SERVICE WESTNET BBS SYSTEM.

KA6JLT-2 WAS MODELED AFTER N6IIU-1. IN THE FUTURE, PLANS ARE TO ADD A SECOND USER PORT ON 220 (FREQ NOT CERTAIN).

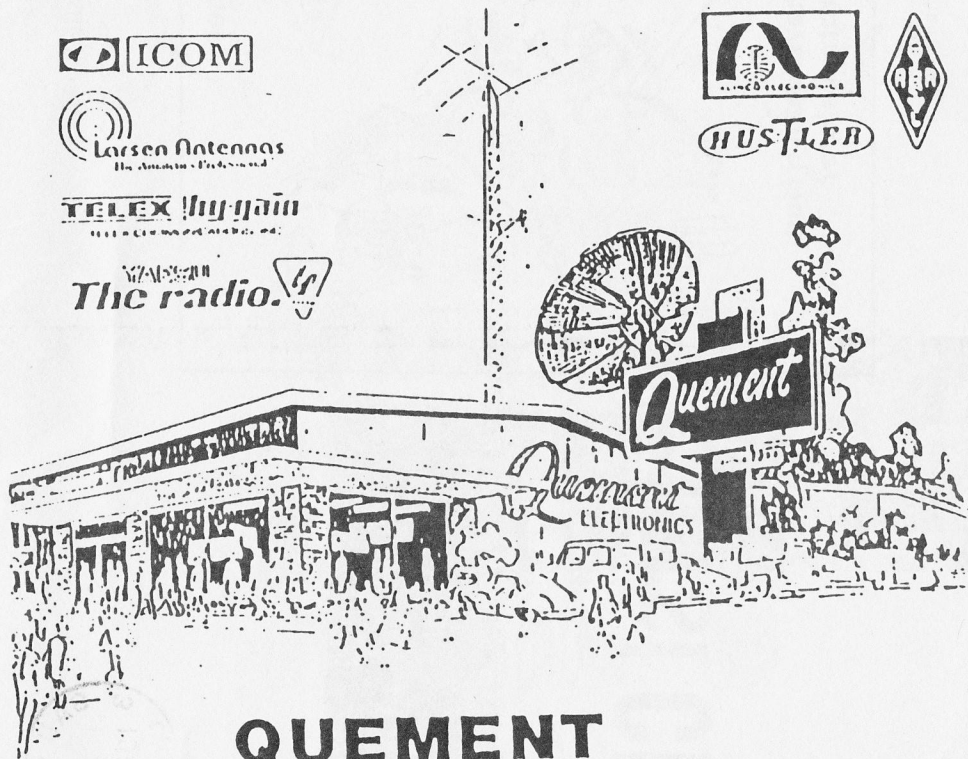
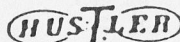
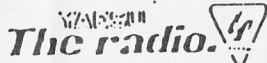
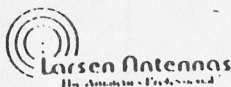
IMMEDIATE PLANS ARE TO ADD A USER PORT ON 220 & TO SPEED UP THE SYSTEM (TO TURBO-IZE IT).

GET ON THIS BBS & SEE A REAL TOP GRADE BBS IN ACTION.

(VIA KA6JLT, ALIAS ROB)

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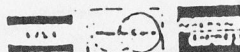
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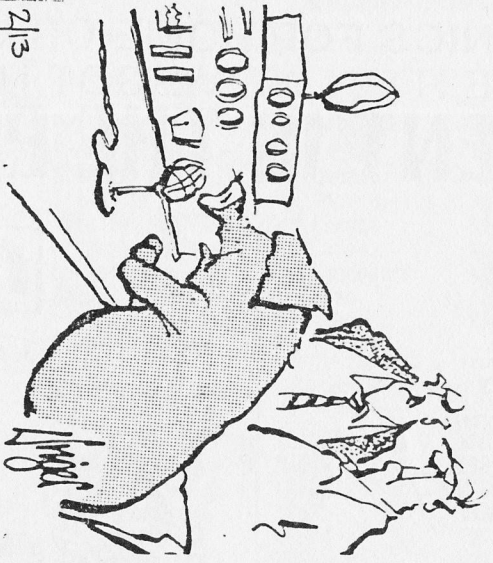


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