

**PAARA**



**GRAPHS**



OCTOBER 1987

**1937-**  
**1987**

**THE OFFICIAL NEWSLETTER  
OF THE PALO ALTO AMATEUR  
RADIO ASSOCIATION  
AND**

**THE MENLO PARK C.D. AMATEUR RADIO CLUB**

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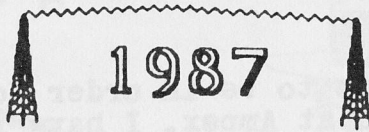
## PAARA Policies

Membership in PAARA is \$6 00 per calendar year which includes a subscription to *PAARAgaphs*. Make payment to the Palo Alto Amateur Radio Association, P O Box 911, Menlo Park, CA 94026

Club Net on 147.45 MHz Mondays at 8:30 P.M.

Meetings monthly at the Menlo Park Recreation Center at 7:30 P.M., the first Friday of the month.

OCTOBER



**From the Editor's Desk:**

As PAARA enters its second half-century with the League, my thanks to those who gave things for this issue. REMEMBER: PAARA AUCTION (Oct. 10) at Ampex. ARRL PACIFICON '87 (Oct. 2/3/4) at LeBaron Hotel, San Jose (CALL PACIFICON 408-243-8349 for info.). Have a fine October & See You Next Month! -73 de Your Editor

## Speaker of the Month:

W/CLG GORDON - Talk Entitled: "All The Ins & Outs of the VEC Program" (Volunteer Examination Coordinator).

Gordon will give the full scoop on how it all was originated, how it has progressed to date, and what is involved in getting certified; as well as the percentage of pass ratios. Bring all call sign change questions to the Oct. 2 meeting for Gordon. Also covered: How to create a novice test... How to create your own V.E. team in your area... Further note: In the future, 2 test dates will be offered monthly - 2nd Saturday at Foothill College & 3rd Sunday at a Sunnyvale location to be disclosed. See you at the **MEETING OCT 2**

As usual, DINNER WITH THE SPEAKER at Su Hong's on El Camino, north of Ravenswood, Menlo Park, at 6:15 on Meeting Evening. -CST de VE3FZK Andy

## Coming Attractions:

Scheduled for NOVEMBER: TOM McSHANE NW6P, on ARRL 50th year Jubilee & Notable DX Achievements. Don't miss this meeting for NOVEMBER o n NOVEMBER 6, 1987.....

# PRESIDENT'S CORNER

All seems to be in order for our October 10 Auction at Ampex. I have listed the suggested work assignments elsewhere in PAARAGRAPHS and hope everyone mentioned can be a part of the talent pool for the effort. We will meet at Ampex at 6:30 AM to get the tables arranged etc. If you have a wagon or hand truck, put your call on it and bring it to help move equipment. Only once, many years ago did we lose a hand truck, and I'm sure the club will guarantee this situation. Donations are needed for the PAARA table and can be received up until Saturday Morning.

Don't forget, we celebrate the year's successful activities at the Christmas dinner, December 14. (Yes, it's almost that time again!)

For those of you who didn't make the September meeting, you missed an exciting presentation by the ARRL Pacific Division Vice Director Jim Knochenhauer K6ITL. On behalf of the League he presented a beautiful plaque to the club for 50 years association with ARRL. Apparently only 11 other clubs nationwide received such recognition! (See centerfold in this issue.)

Please remember to help our Editor, Chuck, with articles, bits of trivia, etc. Write them down! (It's really very simple.)

de W6GLNV



OCT  
10

# PAARA

AUCTION

## T A L E N T P O O L

Auctioneer: K6SEM / WA6LNV

Finance: WB6QPV, W6LII, GI30EN, W6VG, W6ARA

Registration: NM6K, N6CHL, N6CHI, K6FS,  
K6EHS, W6AKR, KA6KYY, KA6KYZ

Impound: K6YT, K6JBR, VE3FZK

Table Sales: KA6LZI

PAARA Table: W6NIR, K6MPN, K6URO, K6JJU

Doughnuts/Coffee: KB6PLW, K6MPN, N6PGM,  
W6STY

Equipment Movers: KD6ZL, W6AZP, N6FEG,  
WB6WBK

# The American Radio

HEADQUARTERS, NEWINGTON



## Charter of AFFILIATED

**Whereas** it is the desire of the American Radio Relay League to make possible unity of action in matters affecting mutual strength; and **Whereas**

## Palo Alto Amateur

has declared its sympathy with and allegiance to the efforts to strengthen and advance Amateur Radio; and has expressed its willingness and desire to coöperate with the

**Now Therefore,** under the policies of the American Radio Relay League as of this date hereby declares its affiliation and issues this charter in token thereof.

July 10, 1937  
Affiliated

*Perry Will*  
Secretary



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Affiliation

50 YEARS



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organizations of kindred aims and purposes to  
the welfare of Amateur Radio and lend

## Radio Association

to the aims and policies of the League in its  
Radio Communication and Experimentation, and  
operate therein:

its Board of Directors, the American Radio  
the said organization to be an affiliated body,

ims, W/4ED  
ary

*Larry E. Price*

\_\_\_\_\_  
President



# ABC'S OF RTTY 1 \*

What is RTTY, when would you use it, where is it, who uses it, and how does it work?

RTTY is an abbreviation for radioteletype. The term teletype, or RTTY refers to a printer and keyboard unit that has been used to send teletype and Tele: messages via telephone lines. Teletype messages have been sent across the Atlantic by undersea cable since the turn of the century. Once teletype equipment was adapted for radio transmission, these systems became known as radioteletype units-RTTY.

RTTY systems were used commercially even before 1940. Teleprinter equipment was in use between San Francisco and Honolulu by April 1932. Advanced equipment was also placed in use between New York and San Francisco by 1934. Additional equipment was then adapted for use across the Atlantic after the war. Special equipment, called ARO RTTY was in service from New York to Amsterdam by 1947. However, RTTY equipment was not generally found in the amateur service until teleprinter equipment became available on the surplus market. In the 60's and 70's RTTY became a somewhat popular amateur mode, and with the advent of home computers and new terminal equipment, RTTY is a common and very popular transmission mode.

If you tune the amateur radio bands for RTTY, you will find transmissions nearly any time at about 7.075 and 14.075 MHz. In addition, ARRL broadcasts in RTTY occur every day; consult QST for time and frequency. Commercial and government transmissions occur at many places in the h.f. spectrum; try the 4, 8, 12 and 16 MHz bands.

Why use RTTY? Obviously, there must be some advantages in using RTTY or we would not find all this activity. While it is true that much of the commercial activity has moved to satellite carriers, RTTY activity has doubled in the h.f. spectrum during the last few years. We are in the information age and any spectrum space is at a premium, so RTTY continues to be useful. In fact, for some applications it is going to be cheaper to use an RTTY system, particularly for low data rate applications. For the radio amateur RTTY is ideal for exchanging messages with friends. RTTY is easily adaptable for computer-to-computer linking, too, even though to date most amateur RTTY links have been for QSO's.

At this point you probably have several questions: what kind of equipment do I need, how does it work, and how to operate it? Let's take a look.

The basic RTTY station requires a computer or teletypewriter, a Terminal Unit (TU), and a transceiver. The computer is used for entering and receiving messages. In most cases, the operator will also desire a printer. The TU is used to adapt signals going between the receiver and the computer. For most amateur systems the transceiver will be operated in l.s.b., regardless of band, for the transmission and reception of RTTY signals. Before describing a typical QSO, let's look a little bit closer at how the TU is connected to your transceiver and computer and how such a system works. -----(to be continued)-----

**\*Prepared & Written  
By Harry Wijtman AEGM, Part 1 of 12.**

HARRY WIJTMAN  
2705 BONNIE DR.  
SANTA CLARA CA 95051  
PHONE 408-241-1110



# SANTA CLARA VALLEY HAMS - IN - ACTION



## SMOKEY SAYS



## PREVENT FOREST FIRES!

Craig Smith N6ITW (of PAARA & ARES) cites the positive presence of amateur radio in the recent disastrous forest fires in Northern California. At a post-incident critique regarding these fires held at San Jose Red Cross, Craig noted that California Department of Forestry and other officials there present said that the hams' part helped quite a bit; and that, in particular, ham personnel from the Santa Clara Valley Section were selected for First Round Volunteer status due to their advanced training and experience in packet and ATV type assignments. Good people to have around when Smokey Bear's warnings are ignored!

## A 147.21 MACHINE

Andy VE3FZK informs that a 147.21 (Oakland) Repeater, operated by a group of hams closely affiliated with the broadcast industry, is tied into a Ukiah Repeater at 147.21 (Mt. Anthony) on the 450 Band. Both have 450 inputs, 444.25 outputs. Require PL 100 Hz. For retirees with relatives up north this may be a good link to try.

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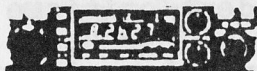


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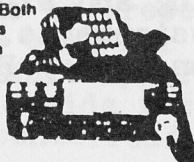


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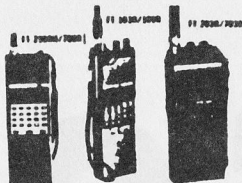
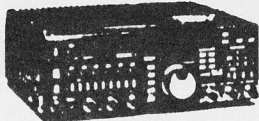


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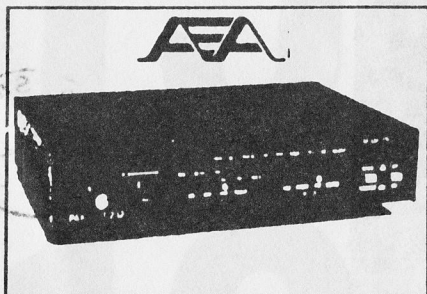


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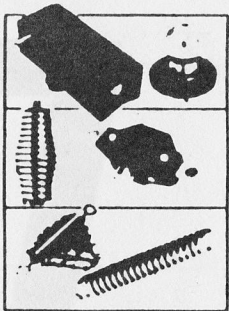


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