

NOVEMBER 1987



THE OFFICIAL NEWSLETTER
OF THE PALO ALTO AMATEUR
RADIO ASSOCIATION

CUID CICAR RUETAMA C.D. AMATEUR BADIO CLUB

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PAARA Policies

Membership in PAARA is \$6.00 per calendar year which includes a subscription to FAARAgraphs 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.

• BULLETIN •

NOVEMBER 1987

From the Editor's Desk:

As the focus shifts to DX, and another 50 year anniversary, thank you for the contributions to this month's issue. Don't forget to plan ahead for the Christmas Dinner on December 14 (more details elsewhere). Have a good November & See You Next Month!

73 de Your Editor

Speaker of the Month:

NW6P TOM McSHANE on DX ===

(This is a broad topic summary by your editor. In view of the exceptional advance information provided by our November Guest Speaker, Tom's excellent memo is reproduced elsewhere in this issue, for full details on this most interesting topic.) Don't miss the meeting:

NOVEMBER THE SIXTH = FRIDAY = AT 7:30 P.M. !!!

As usual, Dinner With The Speaker at Su Hong's Restaurant on El Camino - Menlo Park - at 6:15 Meeting Evening.

Coming Attractions:

Our Program Chairman, Andy VE3FZK, is prospecting for additional gold for our speakership treasury. Be monitoring the PAARA Net and PAARAGRAPHS for latest developments.....

NEXT-MEETING-IS-ON-FRI-DEC-4TH!!!

PRESIDENT'S CORNER

 $\left| V
ight|$ ost importantly the Ampex Auction is over. The planning was a bit of a struggle for yours truly, but a number of people came forward the last week or two and accepted assignments without complaint. That made the actual auction itself quite a lot of fun. We registered over 300 participants and netted about \$1,100.00. should keep PAARA activities marching forward for another year. Key players were: K6MPN for doughnuts & coffee; W6NIR and K6YT for the PAARA table; KA6LZI for table sales and impound; N6FEG for recording the location of the tables and chairs(!); W6AKR, NM6K for Registration; Chuck Johnson for signs; KD6ZL and K6URO for moving equipment; Dan STW for the microphone; and last but not least. GI30EN and K6ARA for handling the money and accounting. Many others chipped in to make the day a success, including W6KJI who monitored our call in frequencies.

I hope everyone will sign up for the Christmas Dinner (details elsewhere).

At the November meeting we need 3 volunteers for the election committee. These people will propose at least one nomination for each PAARA officer position and one for each of the 3 open board member slots. The traditional way to avoid being nominated for President is to volunteer for the committee!

de WA6LNV

Reserve December 14 Christmas Dinner!!

This year's Christmas dinner will be at Dinah's Shack Restaurant at 4269 El Camino Real in Palo Alto (at Charleston). We will have a gift exchange (always fun). You don't have to participate, but if you want to bring a gift "of your own gender" - (that means men bring men's gifts, etc.) - limit the purchase value to \$5.

The menu will be:

Filet of Sole \$12.25 Chicken Cordon Bleu \$13.50 New York Steak \$14.50

These prices include coffee, dessert and tip, etc. No host bar at 6:30 and dinner at 7:30. Reserve this date (December 14) & we will take a head count at the November meeting.

PAARA IN QST

ELEVEN CLUBS TO RECEIVE 50-YEAR AWARDS



The following ARRL affiliated clubs will be receiving their 50-year affiliation certificates this year: Palo Alto ARA (CA), Palomar RC (CA), Pueblo Ham RC (CO), Newton ARA (IA), Kalamazoo ARC (MI), Tu-Boro RC (NY), Greater Cincinnati ARA (OH), Black Hills ARA (SD), Ogden ARC (UT), Four Lakes ARC (WI) and Manteca ARC (CA). These clubs have represented ARRL and Amateur Radio in their communities since 1937. Congratulations!

Letter From Tom NW6P

22342 Bahl Street Cupertino, ca. 95014 Oct. 21, 1987

Chuck Johnson Editor, PAARAGRAPHS 3309 Mt. Logan Drive San Jose, Ca. 95127

Dear Chuck,

This is to confirm that I will be speaking at the November PAARA meeting. Originally I had been asked to speak about RFI/TVI. Frankly, I don't consider myself an expert. But having a 7 element tribander at 60 feet and a 2 element 40 meter beam at 70 feet means you'll get to know your neighbors real fast. I'm an "expert" by default!

I will touch on the TVI matter but my real interest is in DX. Last year the ARRL announced that it would make a certificate available to any ham who worked 100 countries during 1987. I decided to get the award. I created a database to track progress and by June 30th I'd worked 200 countries. I'm at 217 as of this date. My topic will be:

200 Countries in 180 Days

l'Ilrbring some of the "tools of the trade" including my grayline globe, Kansas City Keyer, several atlases, QSL collection (I have cards from 255 different countries), K6HHD/W660 QSL Managers List, copies of The DX Bulletin (a weekly DX Newsletter) and any other "show and tell" stuff I can think of.

If you need some bio data on me here it is:

Tom McShane, NW6P, 45 years old, lives in Cupertino. Married 3 kids 13, 15, 19. Ham since 1957. Got into DXing in 1985 with TS-430 and 65RV dipole antenna. Worked 160 countries on cw that year and decided to put up a tower and beams. Erected 55' heavy duty tower with 20' mast and hung a TH-7 (7 element tribander) at 60' and a 2 element 40 meter beam at 70'. Have worked about 265 countries with 255 confirmed. During 1987 I have worked 217 countries through Oct. 21st.

Education B.E.E. Rensselaer Polytechnic Institute, M.B.A. Univ Chicago: Founder, Vadic Corp (Later merged and called Racal-Vadic), a modem manufacturer. Now working in family business, Bimark - a marketing motivation com

If you need anything else call me at work (408) 996-8766 or at home (408) 738-0471. Lam going to be mobile looking for PAARA members 11/6 just before 6:00p m on 145.23.

See you at the meeting.

73.

Tom McShane

QST DE ROD KB6ZV

MONTHLY DIRECTOR'S REPORT de Rod Stafford, KB6ZV Director, Pacific Division

For those interested in antenna/ordinance cases, there is some good news. A Federal District Court Judge back east has "used the 1985 FCC Order called PRB-1 to invalidate a local antenna ordinance that was overly restrictive. On September 25, 1987, the following bulletin was sent by WlAW.

"A Pederal judge has relied on PRB-1 to void a local height limitation as applied to an Amateur Radio antenna. Andrew B. Bodony, K2LE, had brought suit in U.S. District Court for the Eastern District of New York to overturn denial by the Village of Sands Point of his application for a building permit for an 86-foot tower, retractable to 23 feet in height. In granting partial summary judgment in Bodony's favor, District Judge Jacob Mishler found PRB-1 to be a proper exercise of FCC authority and found that the Village was precluded from applying its 25 foot height limitation on accessory buildings to Bodony's proposed antenna. This court test of PRB-1 represents the first time a local zoning ordinance as applied to an Amateur Radio antenna has been declared invalid on the basis of PRB-1, and further strengthens the position of radio amateurs fighting unreasonable local ordinances.

This case could be very useful in overturning restrictive ordinances of local governments. There are currently several cases in the Pacific Division, most in the S.F. Bay Area, in various stages of litigation dealing with ordinances that most often restrict the height of an amateur antenna to 25 feet. I will try to keep Division members informed of the outcome of these very important cases. The Thernes case in Kentucky was given a lot of publicity as being the first blow struck by ham operators to obtain fair treatment by

local zoning officials and councils. However, the Thernes case final judgment was based upon what is called a consent decree or a stipulated judgment. That is, both of the parties in a lawsuit agree that a judgment should be entered based upon their agreement. Many of the city attorneys who are advising the city councils are stressing that since it was a consent decree, it shouldn't be given much weight. think when we start getting a few decisions like the New York case, the local officials will see the light.

At its July meeting, the ARRL Board of Directors decided to study whether amateur radio ought to have a Political Action Committee (PAC). number of other national interest groups have PACs and the question was posed, "Shouldn't amateur radio have a PAC to promote its point of view on capitol hill?" A recent study was done on PACs and the results were kind of interesting. Apparently, you can buy access through a PAC. It will get your foot in the door. However, in controversial matters, the data only shows that PACs give money to officials because those officials agree with the PAC's point of view, i.e. the official would probably have voted that way anyway. End result, can't really tell whether the PACs are effective anyway. A few feelers were put out in Washington, D.C. about how hams would be perceived if they had a PAC. The response was that amateur radio has always enjoyed a lot of integrity on capitol hill and a PAC would probably undermine that view. So, at the present time, ARPAC doesn't seem to be in the cards.

The new ARRL video "The New World of Amateur Radio" is now available to clubs to show at meetings or to show to non-ham groups. Contact Vice-Director Jim Knochenhauer, K61TL, to request the video. Please try to get your request in at least 3 weeks before you want to the video so that there is time to mail it to you.

10-1-87

ABC'S OF RTTY 2 *

Signals received by the transceiver are presented to the TU in audio form. Usually, the audio is taken from the external speaker connection of the radio and presented to the TU input. Here the audio cable from the receiver is attached to the AUDIO IN jack. An external speaker is then attached via the EXTERNAL SPEAKER jack so that the received audio can also be heard.

In turn, signals generated by the computer are converted by the TU to audio tones. These tones are then sent to the tranceiver's microphone input. The audio tones, called AFSK (audio frequency shift keying) signals, are cabled via the XCVR plug to the tranceiver microphone jack.PTT (push-to-talk) control is cabled here too.

The tones used for amateur RTTY are similar to those used for computer communication by telephone. In each case a signal is represented by two tones, called MARK and SPACE. Generally, a mark is a "0" and a space is a "1". Instead of transmitting ones and zeros by phone, which cannot be done really, tones which represent these numbers are sent. For example, to send a 1010 we would send a mark, a space, a mark and a space. Marks and spaces are defined as specific audio frequnecies. For example, for amateur RTTY the mark is a 2125 Hz tone and the space is a 2295 Hz tone. For phone-line work a different frequency set is used. Since the two tones for amateur radio RTTY are spaced 170 Hz apart and a signal sequence is represented by shifting between these tones, the signals are referred to as 170 Hz shift Audio Frequency Shift Keyed RTTY, or 170 Hz shift AFSK.

Now let's consider briefly the connection between the TU, or terminal unit, and your computer. Generally, only two TTL or RS-232 voltage level lines are required — one for data receive and one for data transmission. In addition, a ground reference line is needed.

With your computer, TU, and transceiver in place how do you go about making a contact or tuning in to listen to RTTY? First, let's set your tranceiver in the proper mode and on the right frequency. Let's suppose that you are going to listen and make contacts on 20 meters. Hence, tune to about 14.080 and set your tranceiver for l.s.b. Tune around a bit until you hear signals that have two tones alternating. Second, you will need to properly tune in this signal in order to receive it.

*Prepared & Written By Harry Wijtman AE6M, Part 2 of 12.

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(See Bottom of Page...)

FREE TECH INFO

Have you obtained your free copy of the Interference Handbook? (you paid for it April 15, 1987) For the 22¢ stamp on your envelope with a note: "I have a TVI problem. Please send me a free copy of the Interference Handbook" to FCC, 424 Customhouse, 555 Battery St., San Francisco, CA 94111. You will receive an excellent book. It contains considerable technical and manufacturer information. For example, did you know that Sony has an 800 number for info on their equipment? The book is a MUST for every Ham library.

73 JERRY WA6LIJ

DUSTY WINS BIG!

[QST de JOHN GORDANO K6JJU] - John's friend Landry (Dusty) Doster K6MPN walked away from PACIFICON '87 the big drawing winner of a KENWOOD TS-940-AT!!!!!!

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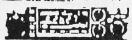
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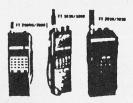
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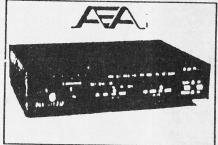
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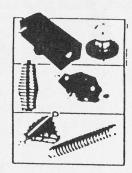
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