GRAPHS

**JULY 1988** 

# QSY TO FIELD DAY

THE OFFICIAL NEWSLETTER
OF THE PALO ALTO AMATEUR
RADIO ASSOCIATION
AND

CULD CICAR EVETARA. C.D. DEAG CLUER EET



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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 on the first Friday of each Month at the Menlo Park Recreation Center at 7:30 PM,

#### Send PAARAGRAPHS correspondence to:

Chuck Johnson, EDITOR 3309 Mt. Logan Drive San Jose, CA 95127

# VOL. 31 JULY '88 FROM THE EDITOR'S DESK

THIS ISSUE FALLS IN THE GAP BETWEEN FIELD DAY '88 AND THE FOURTH OF JULY: THE KEY DAYS FOR AMATEUR RADIO AND UNCLE SAM RESPECTIVELY. TNX FOR THE ITEMS SUBMITTED FOR THIS ISSUE. ALSO: SPECIAL TNX & 73'S TO PAARA'S FIELD DAY VOLUNTEERS, WHO WILL RECEIVE SPECIAL RECOGNITION IN THE NEXT ISSUE. HAVE A SAFE & SANE JULY AND SEE YOU AGAIN IN AUGUST. 73 de YOUR EDITOR...

+ JULY MEETING : FRIDAY JULY 8 +
\_ LATE-BREAKING QST DE N6CHI
BILL KING, PAARA SECRETARY.

#### SPEAKER OF THE MONTH

DOUBLE FEATURE

2- METER EQUIPMENT CALIBRATION NIGHT

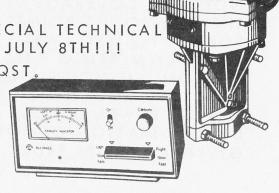
- A N D -

A SHORT TALK ON ANTENNA ROTATORS BY YOUR PRESIDENT

DON'T MISS THIS SPECIAL TECHNICAL SESSION ON FRIDAY JULY 8TH!!!







# 

JULY IS RECOVER FROM FIELD DAY MONTH. AS OF THIS WRITING FIELD DAY IS STILL A FEW DAYS AWAY, BUT IF YOU PARTICIPATED COUNT YOURSELF AS A SURVIVOR. A FULL ACCOUNTING WILL ARRIVE WITH AUGUST'S PAARAGRAPHS. DID YOU READ ABOUT WALLY KOURO IN THE 20 JUNE TIMES-TRIBUNE? HE APPARENTLY SPENDS HIS SUMMERS ATOP MOUNTAINS WORKING DX. ALSO CONTIN-UED ACKNOWLEDGEMENTS TO K6FS AND OTHERS FOR REALLY RUNNING WITH THE BALL IN SUPPORT OF THE BLIND CENTER AT THE VETERANS HOSPITAL. WE NEED MORE CLUB SUPPORT ON SPEAKERS. FOR AWHILE ANDY VE3FZK WAS GETTING LOTS OF IN-PUT, BUT IT SEEMS TO BE PETERING OUT LATELY. HELP OUT BY GETTING NAMES AND CALLS, ETC., OF OTHER CLUBS SPEAKERS. I WOULD LIKE TO HAVE SOME FEEDBACK ON THE SUCCESS RATE OF THE ATV INSTALLATIONS. I HAVE DIFFICULTY GETTING A SIGNAL AND WOULD LIKE TO COMPARE NOTES. PERHAPS WE NEED A SPEAKER ON THIS (POTENTIAL USES, TECH-NOLOGY, COVERAGE, ETC.). SHOULD THERE BE BONUS POINTS AT FIELD DAY FOR ATV? IF SO, WRITE A NOTE TO ARRL. THE JULY MEETING WILL BE A TECHNICAL SESSION. IF YOU WANT A FREQUENCY CHECK OF YOUR 2-METER GEAR, BRING IT WITH POWER LEADS. ALSO, A SHORT DEMONSTRATION OF ROTATORS WILL BE GIVEN BY YOURS TRULY.

de WA6LNV

# Field Day Rules

THE OBJECT OF FIELD DAY:
TO WORK AS MANY STATIONS AS
POSSIBLE AND, IN DOING SO, TO LEARN
TO OPERATE IN ABNORMAL SITUATIONS
UNDER LESS-THAN-OPTIMUM CONDITIONS.
A PREMIUM IS PLACED ON SKILLS AND
EQUIPMENT DEVELOPED TO MEET THE
CHALLENGE OF EMERGENCY PREPAREDNESS
AND TO ACQUAINT THE PUBLIC WITH THE
CAPABILITIES OF AMATEUR RADIO.

THIS YEAR PAARA RENEWS ITS COMMITMENT TO THIS IDEAL AS WOOTX. - ED.

# QST DE GARY WA6VEF

1830 Polk Street
Concord, CA 94521
(SUBMITTED BY FRED K6YT. TNX, -ED.)

Dear PAARA Members,

On behalf of the membership of the Northern California Contest Club, I would like to thank you for your sponsorship of a trophy for the 1987 California QSO Party.

The award you sponsored, for "Top Club in California," was won by the California Institute of Technology ARC in Pasadena, CA. They were so pleased with their trophy that they are planning to sponsor one of their own for the 1988 contest!

NCCC appreciates PAARA's help in maintaining the California QSO Party as the biggest and best state QSO party on the contest calendar.

Sincerely,

Gary Caldwell WA6VEF 1987 CQP Chairman

# PAARA BRIEFS

OSCAR (AMATEUR SATELLITE) NEWSLETTER: BI-MONTHLY, SEND 6 SASE'S & \$10 TO: MARGARET NAKAYAMA KB6HWV, P.O. BOX 6700, SAN MATEO, CA 94403.

BON VOYAGE TO ZL2LB MURRAY MILNER WHO IS BOUND FOR HOME IN NEW ZEAL-AND, AFTER A STINT AT STANFORD.

FOOTHILL COLLEGE FLEA MARKET DATES FOR REST OF '88 SEASON: 9 JULY; 13 AUGUST; 10 SEPTEMBER.

CONGRATULATIONS TO LILY N6PGM WHO ENJOYS A EUROPEAN ESCAPE THIS YEAR TO FRANCE. A TOUGH CHOICE OVER FIELD DAY, BUT SHE KNOWS ALL WORK & NO VACATION MAKES THE TREASURER HATE HAM RADIO.

TNX TO: JOE HORNE KB6OWG, AND TED MORAN KB6UDA FOR THE LOAN OF HAM-BAND RECEIVERS TO BE INSTALLED AT THE PALO ALTO VA WESTERN CENTER FOR THE BLIND, IN CONNECTION WITH PAARA'S ONGOING PROGRAM OF PROMOTING AMATEUR RADIO AS RECREATIONAL THERAPY FOR VISUALLY HANDICAPPED STUDENTS. THIS WILL GIVE THEM A CHANCE TO EXPERIENCE FIRST-HAND THE KINDS OF COMMUNICATIONS EXCHANGED BY HAMS ON THE HF BANDS. -DE K6FS

ARRL LICENSE CLASS HOTLINE: ALL AREA CLASSES: (408) 971-1424. TO ADD INFO CALL GLEN WB6W: (408) 263-9450.



# PAARA BRIEFS

1988 MOFFETT AIR SHOW.

OVER 1,000,000 VISITORS ARE EXPECTED
TO TOUR THE AIR SHOW ON JULY 2, 3,
AND 4. AGAIN THIS YEAR, AMATEURS
WILL PARTICIPATE IN THE FOLLOWING
AREAS: DEMONSTRATION OF SPECIAL
EVENTS STATION TO THE PUBLIC, WITH
KIP WZ6N; DEMONSTRATION OF AMATEUR RADIO TO THE PUBLIC, WITH LIVE
PACKET, ATV, HANDHELDS, SLIDE AND
VIDEO SHOWS, WITH GLEN WB6W; AND
PROVIDING SECURITY, COMMUNICATIONS
SUPPORT TO U.S. NAVY, OES, CITIES OF
MTN. VIEW & SUNNYVALE, WITH TED N6IIU.

PAARA MEETING DATES FOR THE REST OF 1988: 8 JULY; 5 AUGUST; 9 SEPT.; 7 OCTOBER; 4 NOVEMBER; 2 DECEMBER.

PACIFICON '88: LEBARON HOTEL, SAN JOSE: OCTOBER 14, 15, & 16.

#### **BOOK REVIEW**

A very useful primer on antennas is provided in THE SHORTWAVE LISTENER'S ANTENNA HANDBOOK by Robert J. Traister (TAB #1487). This book affords a good overview of how receive antennas work and how they can be made (and made to work better), in the at times tough circumstances of urban dwellers. The principles are useful in considering antennas generally, and there are specific examples of unique antenna variations to make the best of one's QTH and equipment. The book is available thru your local ham bookseller or from TAB Books Inc., P.O. Box 40, Blue Ridge Summit, PA, 17214—either of whom can provide more info.—Ed.

#### ABC's of RTTY #9

A M T O R. (Amateur Teletype On Radio)

| Murray Code | Ltrs.    | Figs.  | AMTOR | Code |
|-------------|----------|--------|-------|------|
| 11000       | A        | _      | 1110  | 0001 |
| 10011       | В        | ?      | 0100  |      |
| 01110       | C        |        | 1011  | 100  |
| 10010       | ם        |        | 1100  |      |
| 10000       | E        | 3      | 0110  |      |
| 10110       | F        |        | 1101  |      |
| 01011       | G        |        | 1010  |      |
| 00101       | н        |        | 1001  |      |
| 01100       | I        | 8      | 1011  |      |
| 11010       | J        | BELL   | 1110  |      |
| 11110       | K        | C      | 0111  |      |
| 01001       | L        | )      | 1010  |      |
| 00111       | M        |        | 1001  |      |
| 00110       | N        | ,      | 1001  |      |
| 00011       | 0        | ġ      | 1000  |      |
| 01101       | P        | 0      | 1011  |      |
| 11101       | Q        | 1      | 0111  |      |
| 01010       | R        | 4      | 1010  |      |
| 10100       | S        | ,      | 1101  |      |
| 00001       | T        | 5      | 0010  |      |
| 11100       | U        | 7      | 0111  |      |
| 01111       | U        | _      | 0011  |      |
| 11001       | W        | 2      | 1110  |      |
| 10111       | X        | 1      | 0101  |      |
| 10101       | Y        | 6      | 1101  |      |
| 10001       | Z        | +      | 1100  |      |
| 00010       | Carriage | Return | 0001  |      |
| 01000       | Line I   |        | 0011  |      |
| 11111       | Lette    | ers    | 0101  |      |
| 11011       | Figur    | res    | 0110  |      |
| 00100       | Spac     | 28     | 0011  |      |
| 00000       |          |        | 0101  |      |
|             | ROCRE    | ot)    | 0110  |      |
|             | Beta(Ic  |        | 1100  |      |
|             | Alpha    |        | 1111  |      |
|             | Control  | 1      | 1010  |      |
|             | Control  | 2      | 01010 |      |
|             | Control  | . 3    | 1001  |      |
|             |          |        |       |      |

Table 1 - Conversion between Murray Code and AMTOR Code. The codes are transmitted left to right. And 1 represents the higher frequency of the FSK signal.

In a Teleprinter system there are 32 recognizable characters, normally transmitted by the 32 combinations of 5 data bits. If 5 data bits are used, any bit error will transform one character into another, and the error will pass undetected.

#### QST DE STEVE K6FS

OPERATING NEWS. ROB WALKER KA6JLT REPORTS THAT AT 1905 UTC JUNE 2, HE INTERCEPTED A MAYDAY CALL ON 21240 SSB, FROM A VESSEL PURPORTING TO BE NAMED FREEDOM II, AT 122 DEGREES 30 MIN-UTES WEST, 36 DEGREES 9 MINUTES 2 SECONDS NORTH, IN SINKING CON-DITION. ROB RESPONDED, NOTIFIED SAN FRANCISCO COAST GUARD SEARCH & RESCUE; HE WAS CALLED A LITTLE WHILE LATER BY COAST GUARD LONG BEACH FOR CONFIRMATION AND FUR-THER DETAILS. BY THAT TIME FREEDOM II WAS QRT, ASSERTEDLY DUE TO BAT-TERY EXHAUSTION. COAST GUARD LONG BEACH DISPATCHED HELICOPTERS, BUT ACCORDING TO INFO GIVEN ROB WHEN HE CALLED BACK SOME HOURS LATER, WERE UNABLE TO LOCATE ANY TRACE OF A VESSEL AT OR NEAR THE COORDI-NATES GIVEN. GENUINE CASUALTY OR HOAX? ROB SAYS OPERATOR ON FREEDOM II DID NOT GIVE CALLSIGN OR NAME.

ROB ALSO PASSES ALONG FOLLOWING INFO: HE NOW HAS A PACKET SYSTEM ON THE AIR WITH BBS DEDICATED TO INFO EXCHANGE RE: ATV, AMSAT, ARES, PAARA; FREQUENCY 144.93, CALL KA6JLT-2; SIMPLEX RANGE ESTIMATED 10 MILES. FOR CONNECTS FROM GREATER DISTANCES, ROB RECOMMENDS DIGIPEATING THRU WA6AMT, 144.93 MEGAHERTZ...

DISTRIBUTION



NEW CONTINUON O

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Andy Korsak 504 Lakemead Way Redwood City CA 94Ø62 VE3FZK 87/01

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| BO: | Remarks: | Ant. | Rcvr. | Xmtr.                                   | Report Freq                             | At   | Our QSO Of19 | Naulo Coniin |
|-----|----------|------|-------|---|---|------|--------------|--------------|
|     |          |      | 1     | 1 | 1 | Time | . 19         | Summing      |

73,

☐ Pse QSL Tnx []