

PAARA

Graphs

APRIL 1988



SUCCESS!!

**March 12, 1988
Flea Market**

**THE OFFICIAL NEWSLETTER
OF THE PALO ALTO AMATEUR
RADIO ASSOCIATION
AND
THE MENLO PARK C.D. AMATEUR RADIO CLUB**

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

Send PAARAGRAPHS correspondence to:

Chuck Johnson, EDITOR
3389 Mt. Logan Drive
San Jose, CA 95127

BULLETIN

April 1988

From The Editor's Desk

It was a SUCCESSFUL Flea Market on all counts on March The 12th! Special 73's to all who did their PART!!! (See PRESIDENT'S CORNER page.) Have a super April & See You next month.

- 73 de YOUR EDITOR

Speaker of the Month:

DR LEONARD A. SAGAN // TOPIC: "OCCUPATIONAL HAZARDS OF A HAM RADIO OPERATOR"... Dr. Sagan is notable for his appearances on television as an expert/consultant in the area of RFI influences on health... BE SURE TO ATTEND THE PAARA MEETING ON FRIDAY 1 APRIL FOR THIS VERY IMPORTANT TALK! Further info on this important guest speaker for April:

Dr. Leonard A. Sagan is the Senior Scientific Advisor, and Program Manager of the Radiation Studies Program, for the Environment Division of the Electric Power Research Institute (EPRI) in Palo Alto, California. He joined the Institute in 1978 and served as manager of the Biomedical Studies Program prior to assuming his current position in February 1982.

Previously, Dr. Sagan spent 10 years as Associate Director of the Department of Environmental Medicine at the Palo Alto Medical Clinic. He also worked as a physician in nuclear medicine for the U.S. Atomic Energy Commission and directed medical research for the Atomic Bomb Casualty Commission in Nagasaki, Japan.

Dr. Sagan received an A.B. degree from Stanford University in 1950, an M.D. from the University of Chicago in 1955 and an M.P.H. degree from Harvard University in 1965.

The author of numerous papers, Dr. Sagan is developing a program in environmental carcinogenesis and other occupational hazards associated with the generation of electric power. His special research emphasis is on the radiation effects of nuclear power generation.

Dr. Sagan is a member of the Board of Directors of the National Council on Radiation Protection and a Fellow of the American College of Physicians.

Speaker's Dinner QST:

DINNER WITH THE SPEAKER (NEW TIME) -- 5:45 PM on MEETING EVENING FRIDAY APRIL 1ST at SU HONG'S RESTAURANT on EL CAMINO, MENLO PARK... Info de Andy VEJFZK, PAARA Program Chairman.

PRESIDENT'S CORNER

April 1st - April General Meeting / April 6th - April Bd. Mtg.

14 March

A report on the flea market can be found elsewhere. The Board, although under-represented, put out a good effort last month. There was flea market planning as well as a preliminary budget drawn up. We hope to make the yearly calendar and budget installed as a PAARA tradition. If you are on the Board, please attend; there are lots of things to do. If any of our younger (newer?) members are interested in the "inner" workings of PAARA please let me know. Check the date; we have a May (22nd) picnic scheduled at W6VG's QTH with lots of goodies paid for by the club, so plan on being there. More on that next month. Please be on the lookout for a multi-section tower, that collapses to about 12 ft., along with a trailer to mount it on. The Club wants to improve its Field Day / Emergency Preparedness situation.

de WA 6 L N V

ON THE
flea market
♦  ♦
♦  ♦

When you're hot, you're hot. PAARA's ability to control the weather through judicious application of Radio Frequency emissions proves effective! Although the threat of March rain is always present, PAARA took its opening Flea Market assignment without complaint, brushed aside Damocles's Sword, and emerged with a March 12th victory. We expanded the sellers' area by one parking row and sold just about all of them. Although we were slightly short-handed, good pre-planning made everything run fairly smoothly. Unfortunately, none of the staffers really got a break. By his own reckoning, JOHN K6JJU personally handed out all 775 Hot Dogs! Yup, you heard that correctly, 775; and that allows for a few that rolled away. PAUL N6FEG single-handedly provided an early site set-up (at 5:30 AM!). LILY ANNE HILLIS N6PGM, and DUSTY K6MPT were controlling seller traffic by 5:45, I think. LEN W6HLE showed up soon after and I saw GERRY W6NIR collecting from early arrivals. FRED K6YT drove in with the generator as I was parking my truck at about 6:10. CHUCK JOHNSON was present with signs; ANDY K6EHS had our first table in place from which we served 100 cups of pre-made coffee in about 30 minutes. ANDY VE3FZK got in early, stayed late, and in-between sold goodies from a roving ham shack. TOM K6JBR gave DUSTY a break on the hot dog cooker, and I'm sure there are a few others I've missed. In any case it was an enormously successful and fun opening day of the Flea Market Season. Next year we will cycle forward to April and I, for one, am already looking forward to it. Last but not least I want to thank TED N6LIU for the loan of two vacuutainers and the propane bar-be-que, and GEORGE K6MTZ for being there.

de WA 6 L N V

May 6th - May General Meeting

May 11th - May Bd. Meeting



FLEA MARKET'S MAGIC NUMBER

LILY ANNE HILLIS N6PGM, PAARA Treasurer, says the magic number of sellers at the March 12th PAARA/Foothill event was 2621! This in addition to some 800 hot dogs (plus sodas & coffee & donuts) served at the PAARA FOOD SALES booth! Fine Business by any standards! -Ed.

(Also see QST From the Treasurer elsewhere.)

EXTRA EFFORT PAYS OFF!

The word came down to your Editor on 3/12 via N6FEG PAUL that KA6JLT ROB WALKER had that day entered that exclusive group of ham humanity called the Extras! Hats off to you OM-- We are proud of you!!! -Ed.

AMERICAN LEGION J-POLES / QST DE WA6LIJ

7 MAR 88

Many thanks to Legion Post 380 for the raffle donation of a J-Pole antenna won by "Andy" Anderson K6EHS. See Legion information inset below.

Amateur Radio Post 380 of the American Legion is the only Post in the Legion composed of all radio amateurs. Amateur Radio Post 380 was the idea of John Hallyburton (W6BCY, Silent Key). John was an active member of the American Legion for many years and a radio amateur operator since 1946. He was a retired Air Force Chief (E9) Master Sergeant. It was his idea to incorporate the ideals of amateur radio and the American Legion public service and community welfare service into one American Legion Post. In 1982 John, together with Bob McLain, (K6IFT) began working to make these ideals happen. There were 15 charter members of Amateur Radio Post 380 when they received their charter from the American Legion Department of California. Today the Post has grown to 35 active radio amateurs in several states. The Post meets on the air weekly on K6FB repeater (145.45) at 1730 hours local time.

In addition to donating their time to public service by providing communications for various community events, the Post has provided a J-POLE antenna, designed by W6BCY, to most of the hospitals, schools, fire station and public building that would be in need of direct communications in a disaster throughout the Santa Clara Valley Section of ARRL. The post has continued this project, and for their fund raising, make the J-POLE antennas available to any amateurs for a modest donation to the Post

73

W A 6 L I J.

(For more information call (408)734 8061 or (408)734-2464

QST DE ROD KB6ZV



DIRECTOR'S REPORT
MARCH, 1988
Rod Stafford, KB6ZV
ARRL Director, Pacific Division

REPEATER COORDINATION MOES. A number of people have asked about the item in the February Director's Report that deals with the letter from the FCC allowing two repeater coordinators to operate in the same area and coordinate the same frequencies. There was a Westlink report that carried some of the details on the matter but for those who missed the details, here they are.

Incidentally, the letter came from Ray Kowalski. Ray has long been someone in the FCC who has listened to many of the problems related to amateur radio and has genuinely tried, within the confines of directives from higher places, to work with the amateur community and find workable solutions to many of the problems.

There has been a long-running dispute between two Southern California groups, the 220 Spectrum Management Association (220 SMA) and the 220 Frequency Coordination Commission (220 FCC). The dispute revolves around the question of which of those two groups should coordinate the 220 repeaters in So. California. The FCC (the real guys, not 220 FCC) investigated the situation and found that the 220 FCC had what the FCC termed 'substantial support' in the area. In essence, 220 SMA gathered 520 signatures attesting they were the proper group to coordinate while 220 FCC gathered 215 signatures. In light of this 'substantial support,' the FCC said that it couldn't rule for or against either party. My question is, why not? We have Presidents that represent our country on much less a majority percentage than 520 to 215. The reason is, of course, because the FCC doesn't want to be the body who determines who is the valid repeater coordination group in a given area. The FCC feels the amateurs should do that themselves.

The FCC said that the two competing groups that had been battling for about 5 or 6 years would have to find some way of co-existing in the same coordination area. If the cooperation was present in the first place, the problem wouldn't exist. A little strange and probably a little unworkable. The Kowalski letter states,

'The existence of two recognized frequency coordinators with overlapping responsibilities in the same geographical area creates the potential for conflicting coordinations. In this circumstance it is essential that the coordinators develop a procedure to avoid incompatible amateur station repeater operations.'

However, the FCC position places the average amateur in a bit of a strange position. The letter from Ray Kowalski goes on to say who might be held responsible and therefore cited for any conflicting coordination which results in mutual interference between two amateur stations in repeater operation.

In such a circumstance, those violation notices or monetary forfeitures could be directed against the licensee of the stations in repeater operation as well as against the licensee of stations that originate transmissions that are repeated. Thus it is incumbent upon frequency coordinators to take steps to preclude the possibility of

inconsistent frequency coordinations.'

Another area of concern brought about by two repeater coordinators battling it out in a particular area is which one should be listed in the ARRL Repeater Directory? Should the ARRL list ALL groups that represent themselves as repeater coordinators? Should it list a repeater coordinator that contends it has 'substantial support' from the local amateur community? Should the ARRL go out and poll the amateurs to determine if any competing group has 'substantial support?' Interesting predicament, isn't it. One repeater coordinator in the middle of the country says that if the ARRL listing in the Repeater Directory includes a competing coordinator, that all authorization to use repeater listings supplied by the first coordinator will be withdrawn.

Oh well, lots of things to think about regarding the situation. It will be interesting to see what happens in the next couple of years with conflicts between groups that contend they are the 'only legitimate repeater coordinator' in the area.

By the way, speaking of the ARRL Repeater Directory, the new edition will be available at the end of April. The last edition sold nearly 60,000 copies.

UPDATE ON 220 MHZ. There's not really any news on FCC proceeding 87-14. That's the FCC proposal to give 220-222 MHz to commercial land mobile services. There were some changes in FCC personnel just before the end of the year which pushed back the expected decisions on the 220 proposal and the call sign proposal which is pending before the FCC. Looks like it will be another couple of months before we hear anything definitive on the issue.

United Parcel Service has petitioned the FCC to file 'late comments' in 87-14. The comment period expired about 6 months ago. UPS would like to use 220-222 MHz for a radio system for dispatching trucks, etc. It will be quite interesting to see if the FCC allows the late comments to be filed. If the FCC's Office of Engineering and Technology (the FCC bureau that came up with the 220 idea in the first place) was in any way responsible for UPS filing the petition, then they will probably be accepting the late comments. If the FCC does accept the comments, be prepared to once again go through the process of sending opposing comments to the FCC. After all, if the FCC can accept the UPS late comments, why not accept another 5,000 comments in opposition from amateurs, right?

DXCC NEWS. By unanimous vote, the ARRL Awards Committee has accepted the recommendation of the DX Advisory Committee to add Western Sahara to the ARRL DXCC Countries List. The DXCC is going to have to resolve whether Western Sahara is considered a brand new listing or a reactivation of the deleted Rio de Oro (Spanish Sahara). The recent and continuing operation by SOBASD has been accepted and will be acceptable for DXCC credit. Western Sahara will count as a multiplier in the upcoming ARRL DX Contest. Incidentally, look for an article in the April QST titled the 'New Face of DXCC' which deals with the changes (relatively minor ones) brought about by the ARRL Board of Directors at the 1988 Annual Meeting in January. Hint: Get out all those DX cards for 80, 40 and 10 meters that are in your attic for some new single band DXCC awards. 73, Rod KB6ZV

QST DE RICH W6APZ

QST

QST

QST

QST

FOR IMMEDIATE RELEASE.....

March 1, 1988

Please read the following at your next club meeting, on your next club net, and/or publish in your club newspaper.

EXPANDED FREE ACCESS TO BAY AREA EMERGENCY AUTODIAL NUMBERS

SPARK AND SARS announce the expanded availability of emergency autodial numbers to any licensed amateur radio operator in the Greater San Francisco Bay Area. These numbers include Police, Fire/Paramedics in 42 Bay Area Cities, 15 agencies including the California Highway Patrol AAA and Allstate Emergency Road Services, County sheriffs plus seven college campus security services.

With this information, radio amateurs with two-meter touch-tone equipment can call in highway emergencies, report fires, obtain road service, or report problems to campus security via W6APZ/R operating on 144.63/145.23. Most cities from San Francisco and Berkeley South to San Jose are included on both sides of the bay. The repeater is located in the Palo Alto foothills and covers from Gilroy through San Francisco, including the East Bay out to the Livermore Valley.

The ten emergency numbers that have been available for the last several years are included in the expanded service, but new agency access numbers have been assigned. These new numbers correspond to those in use on W6ASH repeater on 145.27-, the WB6ADZ repeater on 146.115+, and N6ITW on 440.10+. While each repeater retains its own Autodial On Code, the coordination among these repeaters better serves the ham community by minimizing the different agency codes one needs to remember.

The original ten agency codes will cease to exist after July 4, 1988. This overlap will permit a smooth transition to the new emergency numbers.

This free public service is provided by the South Peninsula Amateur Radio Klub (SPARK) and the SRI Amateur Radio Society (SARS). To obtain the expanded list of autodial codes, send a photocopy of your amateur radio license and a self-addressed, stamped envelope to the repeater trustee:

W6APZ/R, 840 Talisman Drive, Palo Alto, Calif. 94303-4435

Ham clubs or families with several hams may send one request and photocopies of many licenses with one SASE. One copy of the autodial information will be returned for each license received. Even if you have sent in a copy of your license before, a new photocopy of your ticket is required to obtain the expanded list.

end DST

Note to editors: This QST may be authenticated by calling Rich Stiebel, W6APZ, @ 415-852-4842 Mondays through Friday 8 am to 4:30 pm, or from 7:30 to 10 pm at 415-494-0122.

qstrptr8

ABC'S OF RTTY #7 *

	7	0	0	0	0	1	1	1	1
Bit	6	0	0	1	1	0	0	1	1
	5	0	1	0	1	0	1	0	1

0000	NUL	DLE	SPC	0	Q	P	\	p
0001	SOH	DC1	!	1	A	O	a	q
0010	STX	DC2	"	2	B	R	b	r
0011	ETX	DC3	#	3	C	S	c	s
0100	EOT	DC4	\$	4	D	T	d	t
0101	ENQ	NAK	%	5	E	U	e	u
0110	ACK	SYN	&	6	F	U	f	v
0111	BEL	ETB	'	7	G	W	g	w
1000	BS	CAN	(	8	H	X	h	x
1001	HT	EM	)	9	I	Y	i	y
1010	LF	SUB	*	:	J	Z	j	z
1011	VT	ESC	+	;	K	[	k	{
1100	FF	FS	,	<	L	\	l	|
1101	CR	GS	-	=	M	]	m	}
1110	SO	RS	.	>	N	^	n	~
1111	SI	US	/	?	O	-	o	DEL

ACK=acknowledge	ENQ=enquiry	NAK=not acknowledge
BEL=sig. bell	EM=end of medium	NUL=null
BS =back space	EOT=end of transm.	RS =record separator
CAN=cancel	ESC=escape	SI =shift in
CR =car. return	ETB=end of block	SO =shift out
DC1= dev.cont.1	ETX=end of text	SOH=start of heading
DC2= dev.cont.2	FF =form feed	SPC=space bar
DC3= dev.cont.3	FS =file separator	STX=start of text
DC4= dev.cont.4	GS =grp. separator	SUB=substitute
DEL="rubout"	HT =horiz. tab	SYN=synch. idle
DLE=d.link esc.	LF =line feed	US =Unit separator
		VT =vertical tab

1-Mark= hole in tape

Bit 1 transmitted first in serial data

Table 4 - The ASCII RTTY code.

ASCII code.

The Baudot code served radio and wire-line communications systems well, but it lacked enough different codes to support the symbols and control features needed to communicate with modern computers. Therefore, a much expanded code was devised by American National Standards Institute, Inc. (ANSI). This code is called the "American National Standard Code for Information Interchange"(ASCII, commonly pronounced "As-key"). The ASCII code contains 8 bits of data and therefore could support a character set of 256 different symbols. However, only 7 of the 8 bits are generally used for information, so the standard ASCII character set is limited to 128 symbols. The eighth, or "parity" bit is sometimes used for a simple error detection system.----to be continued----

* Prepared & Written

By Harry Wijtman AEGM, Part 7 of 12.

QST FROM THE TREASURER:

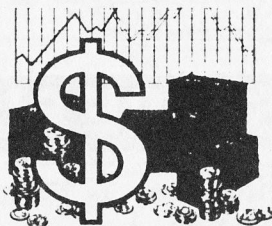
KUDOS TO THE FLEA MARKET TEAM -- A GROUP OF HARD WORKING PAARA MEMBERS WHO CREATED A DAY TO REMEMBER FOR EVERYONE.

WE SOLD 262 SPACES TO SELLERS AND I'M NOT SURE WHERE THEY ALL WENT. WE SOLD NEARLY 800 "FOOT LONG, CONEY ISLAND RED HOTS", COFFEE, DONUTS, AND TOO MANY SODAS TO COUNT.

WE GROSSED \$1834.00 FROM PARKING.
WE GROSSED \$1908.00 FROM FOOD SALES.
EXPENSES TO DATE ARE \$621.39.

CONGRATS TO ALL OF US.

MORE NEXT MONTH FROM YOUR TREASURER
Lily - N6PGM



1988 PAARA BUDGET (Tentative)

Income:

Prizes	264
PAARAGraphs	80
Dues	750
Flea Mkt	800
Auction	800
Interest	396
	<u>\$ 3090</u>

Expense:

Prizes	480
PAARAGraphs	840
Mailing	525
Capital Equip.	600
Field Day	200
Christmas Party	100
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P.O. Box	25
Insurance	250
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Speakers	240
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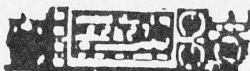


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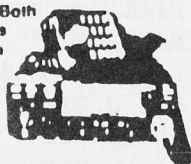
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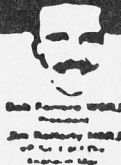
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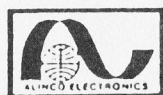


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