

SQUELCH TALES

SAN DIEGO REPEATER ASSOCIATION

VOLUME X

JANUARY 1982

NUMBER 1

ELECTIONS COMING UP

SQUELCH TALES lead story this month deals with the upcoming elections of officers for SANDRA. It appears that we are about to see some new hands at the reins of the nations largest repeater organization.

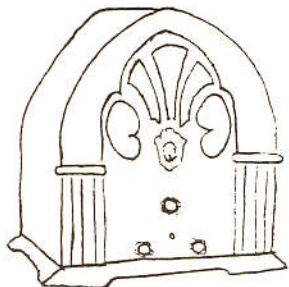
Most of the present officers have a long tenure, and as of press time, with two exceptions, have indicated their desire to step down and make way for new faces. The present Board of Directors came into office in the wake of mass resignations in June 1980, and were unopposed at 1981 election time. (N6AVR, Bob Avila our meeting chairman, came on board in the spring of 1981 to replace WB6RIR).

For the election: What is the process? What is the schedule? Who is going to run for office? What will they have to say for themselves? Read on, starting on page 1.

ALSO IN THIS ISSUE

- METROPLEX - Multiple repeater system succeeds in the Big Apple.
- CHRISTMAS PARTY - Went over great.
- NEW MEMBERS - Nineteen more bring membership to 945.
- "MY BILL" - The cruel reality of the eye ball contact.
- FROM OUR SCM - How the SET went last month.
- AUTOMATED RDF SYSTEM - What they are up to in Ft. Worth/Dallas.
- AND MUCH MORE

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THE ELECTIONS

SANDRA annually elects a Board of Directors comprised of 6 officers and 3 members (directors) at large. SQUELCH TALES describes the process through quotes from our by-laws:

- An annual meeting of the members shall be held in February of each year for the purpose of electing directors....
- The number of directors shall be nine (9). The Board of Directors shall be comprised of the President, Vice president, Treasurer, Secretary, Membership Committee Chairman, and Meeting Committee Chairman, along with three (3) at large directors, all of whom are to be elected at the annual meeting of members. (if proposed by-laws changes are approved at our January meeting, the immediate past President also will be a member of the board).

Any two or more offices may be held by one person except the offices of President and Secretary.

Each director shall hold office for a period of one (1) year. (Proposed change will provide for one year term for one at large director, two years for the second, and three years for the third).

- Nominations for the officers and directors of the corporation shall be made by the nominations committee which shall present a slate of nominees at least thirty (30) days prior to the annual meeting. (KF6Z, Tom and KA6LAG, Earl, were named co-chairman of the nominations committee at the December 3, 1981 Board of Directors meeting. Their slate was presented to the board on January 7, 1981 and will be presented to the membership at the January 21 membership meeting.)

In addition, nominations may be made by the members entitled to vote at the annual meeting. (Proposed by-laws change provides that all nominations will be closed at the conclusion of the January membership meeting. Nominations will be accepted from the floor at the January meeting.)

- A candidate for office of Director shall:

- (1) Have been a regular member in good standing for at least one (1) year in the last three (3) years.
- (2) Indicate his or hers willingness to accept the nomination in writing or in person at the meeting.

That's the way the nomination process works, folks. Assuming by-law changes are approved, the last chance you have to get your hat in the ring is the January 21 membership meeting.

The Election Process?

The by-laws are not specific on this subject, other than that the annual meeting in February shall be for this purpose; that "If the election of directors is not held as designated herein for an annual meeting, or any adjournment thereof, the Board of Directors shall cause the election to be held at a special meeting of the members as soon thereafter as such may be conveniently held"; and that "votes for officers and directors must be cast in person and may not be cast by proxy".

The following process (by-laws changes assumed approved in January) was adopted at the January 7, 1982 Board meeting:

- If there remains no more than one candidate for each office at the conclusion of the January membership meeting, the nominated candidates shall be considered elected, and shall take office at the conclusion of the February membership meeting.
- If there is more than one candidate for any office at the conclusion of the January membership meeting, a ballot will be prepared. The ballot will be mailed to members eligible to vote. Mailing will be February 4, 1982.
- Ballots may be deposited before 8:00 pm at the February 18 membership meeting, or mailed to the club post office box. No ballots will be collected from the box after noon, February 18, 1982.

THIS IS A REPRESENTATIVE LIST OF STOCK ITEMS, OTHER ITEMS AVAILABLE UPON REQUEST. SPECIAL DISCOUNTS ON LARGE ORDERS.

DIODES/ZENERS			
QTY			
1N914	100v	10mA	.05
1N4005	600v	1A	.08
1N4007	1000v	1A	.15
1N4148	75v	10mA	.05
1N4733	5.1v	1W Zener	.25
1N4749	24v	"	.25
1N753A	6.2v	500 mW Zener	.25
1N758A	10v	"	.25
1N759A	12v	"	.25
1N5243	13v	"	.25
1N5244B	14v	"	.25
1N5245B	15v	"	.25
1N5349	12v	3W Zener	.25

SOCKETS/BRIDGES			
QTY			
8-pin	pcb	20	ww .40
14-pin	pcb	25	ww .60
16-pin	pcb	30	ww .70
18-pin	pcb	35	ww .95
20-pin	pcb	45	ww 1.05
22-pin	pcb	50	ww 1.15
24-pin	pcb	55	ww 1.25
28-pin	pcb	60	ww 1.45
40-pin	pcb	70	ww 1.75
Molex pins 01		To-3 Sockets	.35
2 Amp Bridge		200prv	1.35
25 Amp Bridge		200prv	2.25

TRANSISTORS, LEADS, etc.			
QTY			
2N2222 Plastic	NPN		.20
2N2222A	NPN		.35
2N2907A	PNP		.35
2N3906	PNP (Plastic)		.25
2N3904	NPN (Plastic)		.25
2N3054	NPN 4A 90v		.60
2N3055	NPN 15A 60v		.75
TIP125	PNP Darlington		.95
IT28 TRIAC	200v 15A (TO 220)		1.95
SCR	400v 8A (TO 220)		1.95
SCR	30v 800MA (TO 92)		.85
LED	Green Red Clear Yellow		.19
DL747	7 seg 5/8" High com-anode		1.95
DL728B	doub 7 seg 5" com-cathode		2.50
MAN6740	doub 7 seg 5" com-cathode		2.50
MAN72	7 seg com-anode (Red)		1.50
MAN3630	7 seg com-anode ± 1		1.00
MAN82A	7 seg com-anode (Yellow)		1.50
MAN74	7 seg com-cathode (Red)		1.50

9000 SERIES			
QTY		QTY	
9301	1.95	9322	.85
9309	1.25	9601	.40
9316	.90	9602	.90

C MOS					
QTY		QTY		QTY	
4000	.40	4019	.75	4041	1.15
4001	.35	4020	.95	4042	.95
4002	.35	4021	1.15	4043	.90
4006	.95	4022	1.00	4044	1.20
4007	.40	4023	.45	4046	1.95
4008	.90	4024	.95	4047	1.50
4009	.75	4025	.45	4048	1.05
4010	.75	4026	2.95	4049	.65
4011	.45	4027	.85	4050	.65
4012	.25	4028	.95	4062	1.50
4013	.65	4029	1.00	4063	1.00
4014	.95	4030	.95	4060	2.25
4015	.95	4033	2.50	4066	1.25
4016	.55	4034	2.75	4069/74C04	.45
4017	.95	4035	1.75	4070	.60
4018	.75	4040	1.10	4071	.40
				4072	.50
				MC14409	12.50
				MC14419	4.85
				74C151	4.50

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1771 Disc Controller	\$34.50
8T13	1.50
8T23	2.50
8T24	2.50
8T97	1.50
74S188	4.50
1488	1.75
1489	1.75
1702A	6.50
AM9050/TMS4050	5.00
ICM7207	6.95
ICM7208	19.95
MM5314	6.50
MM5316	6.50
MM5387	4.50
MM5369	3.95
TR1802	5.95
UPD4147/TMS4027	1.50
Z80A	9.50
Z80	9.50
Z80PI(OA)	8.50
2102L	1.75
Z107	3.95
2114	4.00
2513 (5V) Up/Lo	19.50
2708	4.95
2718TI	6.95
2718(SV)	9.50
TMS2532/2732	15.00
3242	12.50
4116	4.00
(4118) B (18K)	20.00
(4118) 16 (32K)	35.00
6800	7.95
6802	8.50
6820/6520	4.50
6850	5.95
8080	3.95
8085	9.50
8212	2.90
8214	5.95
8216	2.50
8224	4.25
8228	5.95
8251	7.50
8253	9.50
8255	7.50
8279	9.50
TMS4044	7.95
ADC0800	22.95

- T T L -									
QTY		QTY		QTY		QTY		QTY	
7400	.25	7493	.60	74H10	.35	74LS74	.65		
7401	.35	7494	.75	74H11	.45	74LS75	.75		
7402	.35	7495	.60	74H15	.45	74LS76	.75		
7403	.30	7496	.75	74H20	.45	74LS86	.75		
7404	.35	74100	1.75	74H21	.35	74LS90	.75		
7405	.35	74107	.55	74H22	.40	74LS93	.70		
7406	.45	74111	3.00	74H30	.40	74LS107	.75		
7407	.45	74121	.55	74H40	.45	74LS109	.75		
7408	.40	74122	.70	74H50	.40	74LS123	1.20		
7409	.35	74123	.70	74H51	.40	74LS138	1.00		
7410	.35	74125	.75	74H52	.40	74LS151	1.00		
7411	.35	74126	.75	74H53	.45	74LS153	1.15		
7412	.35	74132	.75	74H55	.45	74LS154	1.50		
7413	.45	74141	.90	74H72	.45	74LS157	1.15		
7414	.65	74145	1.35	74H74	1.50	74LS160	1.00		
7416	.40	74150	1.15	74H101	.95	74LS161	1.00		
7417	.40	74151	.95	74H103	.55	74LS164	.90		
7420	.45	74153	.95	74L00	.60	74LS193	1.00		
7426	.35	74154	1.40	74L02	.60	74LS195	1.00		
7427	.40	74156	.70	74L03	.35	74LS196	1.50		
7430	.40	74157	.95	74L04	.90	74LS244	1.50		
7432	.50	74158	.95	74L10	.30	74LS245	1.50		
7437	.45	74161	1.50	74L20	.75	74LS253	.95		
7438	.50	74163	1.50	74L30	.55	74LS296	1.50		
7440	.40	74164	1.50	74L47	1.95	74LS367	1.00		
7441	1.95	74165	1.10	74L51	.65	74LS368	.95		
7442	.65	74166	1.10	74L55	.85	74LS373	1.75		
7443	.95	74175	.75	74L72	.65	74S00	.50		
7444	.99	74176	1.15	74L73	.70	74S02	.60		
7445	.95	74177	1.10	74L74	1.95	74S03	.45		
7446	.95	74180	1.10	74L75	1.05	74S04	.60		
7447	.96	74181	2.25	74L85	3.00	74S05	.65		
7448	.95	74182	.75	74L93	2.95	74S08	.80		
7450	.35	74190	1.25	74L123	1.95	74S10	.65		
7451	.30	74191	1.25	74LS00	.30	74S11	.60		
7453	.30	74192	1.50	74LS01	.30	74S20	.60		
7454	.35	74193	1.95	74LS02	.30	74S22	.75		
7460	.40	74194	.95	74LS03	.30	74S40	.70		
7470	.35	74195	.95	74LS04	.40	74S50	.70		
7472	.40	74196	.95	74LS05	.30	74S51	.75		
7473	.40	74197	.95	74LS08	.40	74S64	.35		
7474	.45	74198	1.50	74LS09	.40	74S74	.75		
7475	.45	74221	1.50	74LS10	.40	74S86	.75		
7476	.45	74298	1.50	74LS11	.40	74S112	.90		
7480	.60	74367	1.15	74LS20	.40	74S114	.85		
7481	.95	75107A	1.50	74LS21	.40	74S133	.85		
7482	.95	75451	.85	74LS22	.40	74S140	.95		
7483	.75	75452	.85	74LS27	.40	74S151	.95		
7485	.95	75461	.85	74LS32	.40	74S153	1.50		
7486	.55	75491	1.50	74LS37	.60	74S157	1.50		
7489	1.95	75492	1.50	74LS38	.40	74S158	1.50		
7490	.75	74H00	.40	74LS40	.40	74S194	1.75		
7491	.60	74H01	.40	74LS42	.75	74S196	2.00		
7492	.60	74H04	.90	74LS47	.95	74S257(8123)	1.95		
		74H05	.55	74LS51	.40	74S287	3.95		
		74H08	.90			8131	2.75		

I ² L, LINEARS, REGULATORS, etc.			
QTY		QTY	
XR2206	3.95	LM320K18	1.65
MCT2(E)	1.25	LM320K15	1.65
8038	4.50	LM320K24	1.65
LM201	3.50	LM320T5(7905)	1.65
LM301	.95	LM320T12	1.65
LM308	1.25	LM320T15	1.65
LM309H	1.50	LM323K	4.95
LM309(340K-5)	1.50	LM324	.85
LM310	2.85	LM337T	2.25
LM311 (B-14 Pin)	1.50	LM339	.95
LM317T	2.25	7805(340T5)	.95
LM318N	1.60	LM340T12	1.50
LM320H6	2.50	LM340T15	1.50
LM320H15	2.50	LM340T18	1.50
LM320H24	2.50	LM340T24	1.50
LM320K5	1.65	LM340K12	1.50
LM320K6	1.65	LM340K15	1.50
LM320K12	1.65	LM340K18	1.50
		LM340K24	1.50
		LM345K5	9.95
		LM373	3.95
		LM377	2.50
		78L05	.75
		78L12	.75
		78L15	.75
		78M05	1.95
		LM380 (8-14 Pin)	1.19
		78P280N	1.19
		LM709(8-14 Pin)	.75
		LM771	.75
		LM772	.75
		LM775	2.95
		LM739	2.50
		LM741(B)	.55
		LM747	1.25
		LM1307	1.75
		LM1458	.65
		LM3900	.95
		LM3909	1.50
		NE555	.50
		NE556	1.00
		NE556S	1.50
		NE566	1.75
		NE567	1.50
		TA7205	2.95
		76477	2.95
		95H80	9.95
		TL081CP	.75

POTPOURRI BY W6UZL

- Ballots will be counted during the membership meeting and winners announced at the close. Traditionally, the newly elected board holds their first meeting immediately at the conclusion of the membership meeting.

What will the candidates have to say for themselves?

- Candidates will be invited at the January membership meeting to tell us what their qualifications are, why they are running for office, and what their goals and objectives are for the club. Each will get the floor for 5 minutes.
- SQUELCH TALES invites the same statements for publication in the pre-election February issue. 150 words or less.
- SANDRA nets on Sunday, February 7, and Wednesday, February 10, will likewise reserve a 5 minute time slot for each nominee.

Are you lurking in the background as a potential candidate? Call one of the officers of the club for information and step forward at the January 21 meeting for a chance at a rewarding experience in 1982!!!!

NEW OFFICERS

Two of our fellow clubs who have elected officers are the Amateur Radio Club of El Cajon and the North Shores Amateur Club.

El Cajon installed their new officers at a pot luck dinner on January 14:

President	Dick Leffler	WA6COE
Vice President	Fred Villanueva	WA6SJK
Secretary	Pat Bunsold	WA6MHZ
Treasurer	Gordon Ripley	WB6POW

North Shores installation is scheduled for the Admiral Kidd club on January 19:

President	Brad Williams	N6ART
Vice President	Patricia Nyland	WD6EDP
Secretary	Al Gutierrez	WA6FOJ
Treasurer	Ralph MacAndrews	W6ZBE

OPEN FOR BUSINESS - One of the regular advertisers in SQUELCH TALES is Integrated Circuits Unlimited Inc., where you can get super buys on integrated circuits and a large selection of electronic parts. The management has asked us to announce that contrary to rumor this firm is, and will remain, open for business. The associated firm, Electronics Emporium, was dissolved back in 1980, and the ham radio and C.B. lines are no longer carried. See ICU ad on page 2 of this edition.

FROM HR REPORT - Japanese repeaters are expected to be authorized in the near future, and the JARL has announced new VHF/UHF bandplans set up to accommodate them. Key points of the new bandplans are enlarging of the FM segments of the 144 and 440 Mhz bands to provide room for repeaters, and moving the present 52.5-Mhz beacon frequency to 50.010 Mhz. That latter move puts Japan into agreement with the rest of the world, with beacons at the lower band edge to better signal band openings.

CB BECAME LEGAL IN GREAT BRITAIN - Monday, November 2, on the 27-Mhz band as in the rest of the CB world but using FM instead of AM. The switch to FM was made to avoid "legalizing" the million CB rigs already estimated to be operating in England, but early reports are that the English CB community is less than enthused about the changes in mode.

IN THE NEWS AGAIN - In the September 1981 SQUELCH TALES we gave a pat on the back to SANDRA member Jerry Boyd, WA6CUP, new Chief of Police for Coronado for his role in the rescue of kidnapped Maria Martin. Jerry is in the news again, as the author of a fine article on page 64 of January QST. The article was written when he was still a captain in the police department of Irvine. Look it up!

PLAIN LANGUAGE REWRITE DEAD - SANDRA, along with most ham organizations, encouraged comments on the plain language rewrite of Part 97 of the FCC rules. The FCC tells us that "The Commission has decided to forego its proposed major rewrite and codification of the Amateur Radio Service rules due (Continued on Page 11)



Glenn Rattmann K6NA

Tom McDuffie KM6K



LOOK! SPECIALS!

KENWOOD TR-2500 2M HT	\$315.00
YAESU FT-208R 2M HT	\$315.00
KENWOOD TR-7730	\$289.95 (\$315.00 W/TT MIC)
KENWOOD TR-7850 (50W OUT)	\$389.95
YAESU FT-707 HF TRANCEIVER <u>SPECIAL</u> ..	\$699.95
KENWOOD TS-130-S .. <u>SUPER SPECIAL</u> ..	\$679.95 <u>PLUS</u> REBATE!
DRAKE TR-7	(LIMITED TIME) .. \$1299.00
YAESU FT-207R 2M HT	\$249.00 WHILE THEY LAST
COLLINS KWM-380 STILL AT OLD PRICE.	\$2695.00
IC 730	\$739.95 <u>PLUS</u> REBATE!
KENWOOD TS-530-S	699.95

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COME IN, BROWSE AROUND, AND SEE OUR GEAR
 ASK US ABOUT THE KENWOOD AND ICOM REBATES!!
 (THE FT-ONE IS COMING SOON!)

JANUARY 16 IS "ICOM DAY" - SEE OUR AD ON PAGE 100 OF JAN. QST!

5375 Kearny Villa Rd., San Diego

560-4900

STORE HOURS: 10 AM TO 5:30 PM. CLOSED SUNDAY.

MEMBERSHIP MEETING

The annual SANDRA Christmas Potluck Dinner was held December 17, 1981, at our new meeting facility at the Department of Education, 6401 Linda Vista Road. Fifty nine hams signed in, and with families and friends over a hundred were present for good food, fraternalism, and an excellent talk by Lt. Fred Lee of the Humane Society.

President John Nabors used the occasion to recognize many of those whose individual efforts have made our organization successful over the past year.

Lt. Lee told us of the differences in the role of the Humane Society versus the County Animal control Agency. The Humane Society is a self sustaining voluntary organization whose goal is to protect animals and find new homes for animals. The Board of Directors include the elite of San Diego City and County.

Ham operators perform an active role with the Society during disaster periods, such as fire and flood, by providing communications for animal rescue teams. (There is a permanent ham station at Society headquarters donated by County hams for this use.)

Membership in the Humane Society is \$15.00 a year (\$10.00 for Senior citizens). For your monthly news letter, send contribution to:

887 Sherman Street
San Diego, Ca 92110

For info about volunteering your service during emergencies, contact Sybil, W6GIC, or Barbie, WA6URS.

KD6QB, Bill, did yeoman duty as Santa along with WA6HYQ, Johnnie, who ran the raffle. Lots of door prizes, with the big cash prize going to KA6GPR, Fred, after pulling 16 names out of the hat.

And by the way, those who didn't get to sample WA6JOL'S chicken tacos and beans missed the very best part.

SIGNED IN

KD6QB	WA6JOL	KA6FYG	N6FKF	N6BBB
K6QJB	WB6WHM	N6EYN	W6SZX	KM6S
N6AFB	N6AHJ	N6DPX	WD6FUP	W6UZL
KA6GPR	KA6MQV	W6RHV	N6FYX	AG6Y
KQ6T	WB6OZG	WA6KHA	K8WEN	N6ELY
WA6HYQ	KA6QJV	WD6FKF	WA6JTB	WD6GVO
W6GIC	K6AQ	WD6BXZ	WD6DSV	WB6AXW
WB60KO	WA6BCC	WD6EDK	K6GAO	WA6LAG
K6BWT	WB6GXR	N6CLG	WA6JGL	WB6POW
WA6ZMQ	KA6PSI	WA6AIL	WA6QVW	N6CQW
KA6CGP	WB6BCT	W6PDA	KE6BM	W6RHI
W6SLF	W6IZS	WA6YVX	WA6URS	SANTA

\$65 DOOR PRIZE DRAWING NOT PRESENT

KD6SK	WB6QYZ	W6QZ	WB6ZPB	WA6IES
WD6BOD	WB6QYO	N6AEA	K6QXN	KB6SR
W6ESR	WB6RCZ	WA6LGV	KA6EEV	AA6JJ

PRESENT AND WINNER OF THE \$65
- KA6GPR -

BOARD MEETINGS

Board Meeting Minutes - Dec. 3, 1981
Bonanza Restaurant
2633 El Cajon Blvd., San Diego, Ca.

Board members present: WA6AIL, WA6URS, WB6CDK, WA6KHA, N6AVR, N6LY.
Board members absent: WA6JTB, B6BSD, N6EBL,
Guests present: KF6Z, KA6RPJ, W6UZL, K6BWT, W6GIC.

Larry, WA6AIL, Vice-President, called the meeting to order at 7:45p.m.

Walt, WB6CDK, Gave the Treasurer's report which appeared in the Dec. issue of Squelch Tales.

Vance, WA6KHA, Membership Chairman, reported 903 current members, with 863 as voting members.

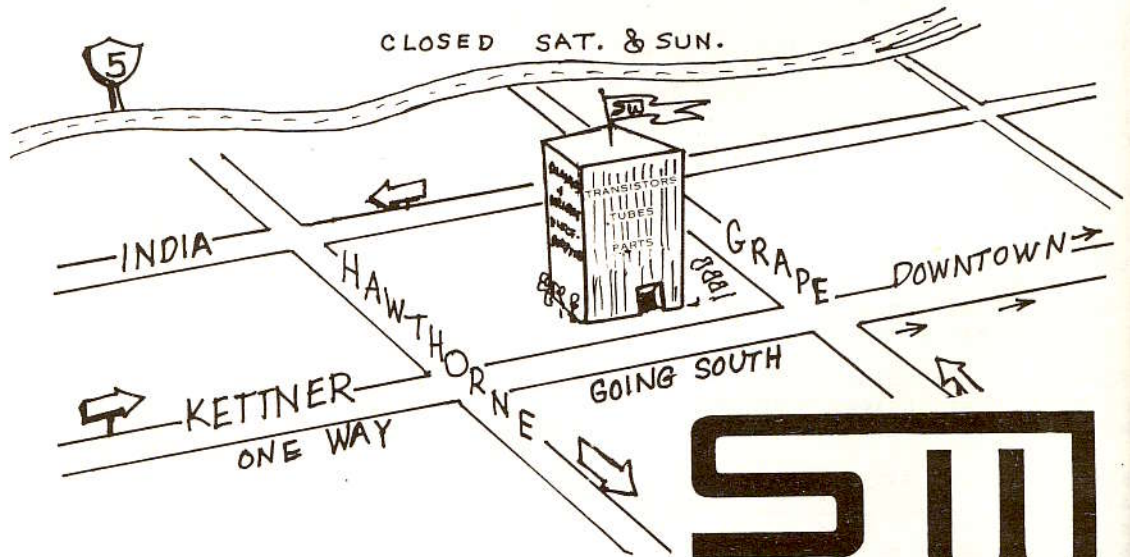
Under old business the By-laws committee chairman, Sam, K6BWT, stated the by-laws revision will be in the Dec. issue of Squelch Tales. The proposed changes will be voted upon at the January membership meeting.

The reports from the trustees are due for insurance coverages.

Vance, WA6KHA, reported the ARRL has equipment insurance of \$1.00 per \$100. with a \$50.00 deductible.

SINCE 1945

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Si
W6OSD

WA6AIL appointed Earl, WA6LAG, and Tom, KF6Z, as co-chairmen to the nominating committee.

Larry also appointed Dick, W6RFI, as election committee chairman.

Sybil, W6GIC, is to check out the possibility of a garden for SANDRA to use as hospitality room for the ARRL Convention in June 1982.

Walt, W6UZL, displayed the 3 books SANDRA has received from 73 Magazine. These books will be used as door prizes for our Dec. general membership meeting. They are:

- 1- VHF Antenna Book
- 2- VHF Handbook for Radio Amateurs
- 3- World Repeater Atlas

W6UZL proposed to change the wording in SANDRA's operating procedures. Larry, N6LY, made the motion with Vance, WA6KHA, seconding the motion. The motion passed. (See Page 9 For Changes)

Barbie, WA6URS, is to call F.F. Cooke to check on our progress of paperwork with the BLM (Bureau of Land Management).

WA6URS is to check with Wayne, W6PDA, on the vent covers for our building on Mt. Otay. WA6URS made a motion if they are not ready and available the vent covers are to be purchased as soon as possible. N6LY seconded the motion and it passed unanimously.

WB6CDK is to send a letter to Organ Power Pizza for \$120.00 payment for Squelch Tales ads.

WA6AIL, appointed W6UZL, W6GIC, and WA6KHA to review who get complimentary issues of Squelch Tales and to revise the list.

After some discussion, it was decided that SANDRA should approach SA DARC to send \$500.00 to West Link. N6LY made the motion and WA6URS seconded it. The motion passed unanimously.

The meeting adjourned at 8:55 p.m.

Respectfully submitted,
Barbie - WA6URS
Barbie Flinn, WA6URS
Secretary, SANDRA, Inc.

Board Meeting Minutes - Jan. 7, 1982.
Bonanza Restaurant
2633 El Cajon Blvd., San Diego, Ca.

Board members present: WA6JTB, WA6AIL, WA6URS, WB6CDK, WA6KHA, N6AVR, N7LY, N6BSD.

Board members absent: N6EBL.
Guests present: WA6YVK, AJ6L, WA6CGT, K8WEN, KF6Z, N6FUY, K6BWT, WA6HYC, W6UZL, W6GIC.

John, WA6JTB, President, Called the meeting to order at 7:34 p.m.

Vance, WA6KHA, Membership Chairman, reported 27 new members this month with 83 renewals. Our total membership is now 945.

Walt, WB6CDK, Treasurer, gave his report which appears elsewhere in this issue of Squelch Tales.

Bob, N6AVR, Meeting Chairman stated our January meeting program will be the last leg of a model airplane transcontinental flight. The proposed By-laws changes will be voted on during the business meeting which will be first on the agenda.

Under the Trustee's reports Larry, WA6AIL, reported the autopatch was having some problems with a very low powered carrier on the input. This makes the patch mostly unusable.

Dave, N6BSD, made a motion to make a donation of \$100.00 to Sharps Hospital with a letter of appreciation. WA6AIL seconded the motion. It passed unanimously.

Tom, KF6Z, Nominating Committee Chairman, presented his slate of officers to the Board. **Nominations** will also be accepted from the floor at the Jan. membership meeting. WA6JTB thanked KF6Z for his job as Nominating Committee Chairman.

WA6JTB appointed Sam, K6BWT, as SANDRA's Parliamentarian.

Walt, W6UZL, presented to the Board a clarification of the election procedures to be published in Squelch Tales. They were accepted by the Board and will appear in the January issue

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Laguna site - The Laguna antenna has been welded. It still needs to be painted.

(Sec. notes: W6GCJ has accepted the job).

The meeting was adjourned at 9:17 p.m.

Insurance - After considerable discussion W6BSD made a motion to request Jim, W6GCJ, to obtain insurance at his discretion to cover the club's needs. W6AIL seconded the motion. It passed.

Respectfully submitted,
Barbie - W6GURS
Barbie Flinn, W6GURS
Secretary, SANDRA, Inc.

PROCEDURE CHANGE

PROPOSED CHANGE TO SANDRA "ACCEPTED PROCEDURES"

SUBMITTED TO SANDRA BOARD OF DIRECTORS DECEMBER 3, 1981

2. PROCEDURES WHERE JAMMING OR INTERFERENCE IS PRESENT

WAS

Never talk to a jammer or about a jammer over the repeater. Don't directly acknowledge the presence of jamming. Talk around it. Ask for lost information without direct comment that it was jammed out. If your traffic is complex and you are getting nowhere, QSY or sign clear until the jamming goes away. Jammers, by their very nature, are trying to join the "group". By talking to them or about them you are furnishing them their attention. To get angry is even worse. Ignore them. Don't even mention them casually during the QSO. Don't let it get to you. At least, don't show it got to you on the air.

The repeater will not be shut down for jamming. This decision is based on two conditions:

- If the repeater is shut down, then that act in itself gives the jammer recognition and attention.
- If the repeater goes away, so does the jammer, and the interference committee needs to have the jammer on the air to do its thing.

If you are not content ignoring the jammer and want to help, don't talk about it on the repeater. Buy input crystals (if not synthesized), calibrate your beam or buy an "L-Per" or "Dop-Scan" and learn how to use it. Report the relative intensity of the jamming signal by telephoning to the SANDRA Interference number, (714) 286-8550 or to any Board Member. Join in on any of the T-Hunts for further information and practice.

2. PROCEDURES WHERE JAMMING OR INTERFERENCE IS PRESENT

APPROVED REVISION

Never talk to a jammer or about a jammer over the repeater. Don't directly acknowledge the presence of jamming. Talk around it. Ask for lost information without direct acknowledg-
ment that it was jammed out. If your traffic is complex and you are getting nowhere, QSY or sign clear until the jamming goes away. Jammers, by their very nature, are trying to join the "group". By talking to them or about them you are furnishing them their attention. To get angry is even worse. _____ Don't even mention them casually during the QSO. Don't let it get to you. At least, don't show it got to you on the air.

The repeater will not be shut down for jamming. This decision is based on two conditions:

- If the repeater is shut down, then that act in itself gives the jammer recognition.
- If the repeater goes away, so does the jammer, and the interference committee needs to have the jammer on the air to do its thing.

HOW ALL MEMBERS CAN HELP

Note: all approved changes are underlined.

Don't ignore the jammer. If you want to help, don't talk about it on the repeater. Put up a beam antenna, calibrate it, and have a look on the input to the repeater when interfering signals are present. Log the direction, intensity, and other characteristics such as frequency deviation, hum, etc. Report your findings by telephoning the SANDRA Interference number, (714) 286-8550 or to any Board Member. Outfit your car with direction finding equipment, and join in on any of the T-Hunts for further information and practice.

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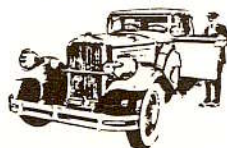
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VOX POP

Walt Hicks, W6UZL
Editor, SQUELCH TALES

Dear Sir:

It seems the the repeater operational procedure as delineated by the ARRL, and in common use has been made obsolete by the widening use of scanning transceivers and scanners. I have had, and I am sure others have had the experience of hearing, "This is W6XYZ monitoring", and before we can identify the frequency, or stop the scanning, the scanner is off and running. This type of call is only 3-4 seconds, not long enough to read the frequency or stop the scan. A scanner covering 10 or more memories in around 10 seconds could have missed the call entirely.

The following procedure is suggested when making a CQ call. "This is W6XYZ, I spell whiskey six x-ray yankee zulu, monitoring 146.52" (or 146.64 etc). This call takes about 9-10 seconds and accomplishes several things, (1) makes it more probable that the scanner will pick up the call. (2) Gives you more time to stop the scanner. (3) The frequency, given last, is almost sure to be heard, even if the scanner picks up only the end of the transmission. This would allow us to monitor the frequency to see if the call is repeated.

I operate mobile quite often away from metropolitan areas where there are not many stations using their repeater. Under these conditions I believe this procedure would be of particular benefit. My usual procedure is, from the ARRL repeater directory, to locate the most probable stations that I might work and set them in the scanner. It's exasperating, after 2 hours of nothing on the rig, 2 hours of watching the sagebrush go by, to hear, "...ontering", or "W5XYZ monitoring", and not being able to come back because your eyeballs couldn't leave the road and pick up the numbers on your rig quick enough, or didn't get to the stop button soon enough. The station calling wants a QSO, you would certainly welcome a QSO to break the monotony...but no contact.

This longer, more explicit call would be of a great benefit in a "break..break", or "break..break..break" situation where it is imperative that your call or the

other stations be heard and the frequency identified... Make your call at least 10 seconds long and end it with the frequency used.

Note: The above is based on my experience with a Kenwood 7800, a Kenwood 2400 and a Bearcat 210.

Submitted by Mel Nelson, WB6IVN



TREASURER'S REPORT

Balance Forward		\$4,028.12
Income		
Initiation	\$120.00	
Dues	840.00	
Squelch Tales Ad.	300.00	
Other, Overpayment	20.00	
Total Income	-----	1,280.00

Disbursements		
Adm. supplies	145.48	
Squelch Tales	465.63	
Utilities (meter read)	166.63	
Other, refund	20.00	
Total Disbursements	-----	(797.74)

Checking Account	1,970.88	
Savings Account	2,539.50	

	4,510.38	
Balance Forward	4,028.12	
Net for December	482.26	

	4,510.38	
Balance December 31, 1981		4,510.38

RADIO CLASSES

A novice class started January 12 at the Convair Radio Club, and a class in General class theory is being formed. Sessions are held at Convair Missile Park on Kerney Mesa. Not too late to join either. Contact Joan, KM6S, at 292-7692 for the details.

(POTPOURRI Cont. From Page 3)

to overwhelming opposition to the November 18, 1980 proposal." Approximately 1200 comments were received. The sentiment was "strong opposition". The attempt to redefine the Amateur Radio Service provoked the most comments. FCC's parting shot was "should the amateur community at a later date wish to pursue, on its own, a general rewrite of the rules for the Amateur Radio Service, the contents of this docket will be most helpful".

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FROM OUR SCM

SIMULATED EMERGENCY TEST - 1981
by Art Smith, W6INI
ARRL Section Communications Manager

Simulated Emergency Test (SET) is the name given to the annual emergency drill sponsored by the American Radio Relay League. It involves the Amateur Radio Emergency Service, National Traffic System, Radio Amateur Civil Emergency Service, and clubs and nets without specific affiliation.

The objective of the SET held in San Diego County on the morning of December 5, 1981 were:

1. To test ARES communications plans.
2. To determine communications conditions from contingency locations.
3. To provide operator experience in locating and setting up communications at the contingency locations.
4. Where agency personnel were participating, to familiarize operators with the type and content of message traffic, and to familiarize agency personnel with the use of Amateur Radio.
5. To familiarize operators with formal message format message and handling procedures.

The simulated disaster was widespread flooding which resulted in the need for evacuating residents in several areas of the county. The SET plan provided for support of the San Diego County Department of Health Services, American Red Cross, San Diego (city) Office of Emergency Management, and the Rancho Bernardo Civil Emergency Plan. Approximately 90 operators participated and nine repeaters were used.

The Health Department Net had 13 stations located in San Diego, Oceanside, Vista, San Marcos, Escondido, Ramona, El Cajon, and Chula Vista. The Palomar Club's 13/73 repeater did an outstanding job for this widespread net. The Health Dept had personnel at all locations to generate realistic-sounding traffic.

The Red Cross communications systems, with Red Cross personnel at all locations, provided communications from the Chapter headquarters in San Diego to service centers in Oceanside, Escondido, El Cajon and Chula Vista via the 220 club's 224.90 repeater. Secondary nets from each service center to the evacuation centers for which each was responsible used repeaters in Vista, Escondido and the Poway ARS repeater on 63/03, and simplex frequencies. Simulated evacuation centers totaled 18 and were manned by Red Cross volunteers. The simplex net for the Chula Vista Service Center was backed up by a net on 75 meters.

The San Diego Emergency Net provided communications on SANDRA's Lyons Peak repeater with stations located at the San Diego Emergency Operations Center (EOC), six police sub-stations, and the Rancho Bernardo Command Post. A local Rancho Bernardo net was staffed by the community's Civil Emergency Committee using the Poway ARS repeater. For flood information gathering a net operated on the Mission Hills repeater (WD6APP) keeping the flood information center in touch with mobile units taking water level readings along the San Diego River.

A local Red Cross net used the K6OPY repeater located on Mt. Soledad and exercise coordination was accomplished with stations with stations on the WB6WBH 220 repeater.

All exercise objectives were met but it was noted that most participants were in need of more exposure to the fine art of handling written messages using standard format and procedures. Regular participating in the Palomar ARC's North County Traffic Net (13/73), which operates daily at 2000, is an excellent way to accomplish this.

SILENT KEYS

SANDRA Member, WA6NRP, Hal Grines, passed away on Christmas Day, 1981

SANDRA Member, W6BFP, John R. McEncroe, passed away June 13, 1981

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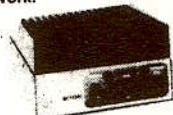
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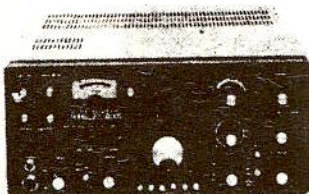
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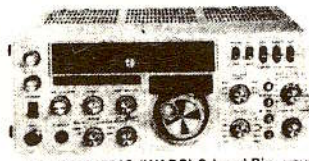
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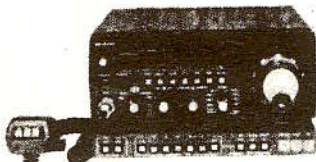
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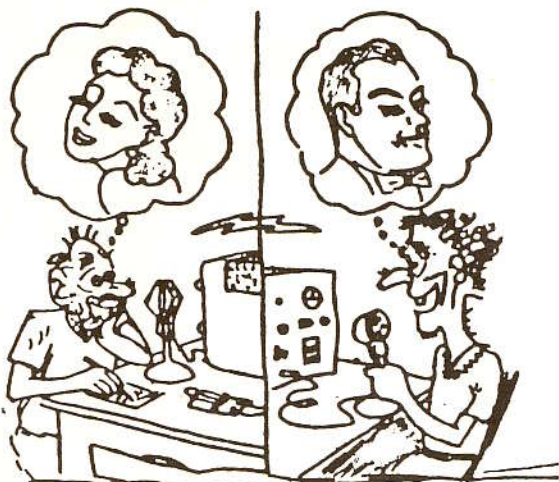
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MY BILL



Two meters that's what I like!
To sit me down before the mike
and talk to Joe and Pete and Sam.
Oh how I like to be a ham.
One fine day QRM was nil
I had my first QSO with Bill.

Now some OM's have nasal notes,
and some have frogs within their
throats.
But Bill, not a thing is wrong.
His voice was full and deep and
strong.
So many lovely things he said
and after that we made a sked.

We chewed the rag day after day,
I could not tear myself away.
Pearls of wisdom from his lips and
and quite a few amusing quips.
He sent 88's - romance bloomed
my heart soared, my heart bloomed.

Perhaps twas Kismet-such my fate -
that Bill would choose me for his
mate.

I envisioned a cottage small
with ivy and twin lead on the wall.
And me my Bill hand in hand
twirling the dial across the band.
He said that he would see me soon
and then one day just at noon
a CQ on the doorbell rang.
I rushed to it my heart sang
there stood a man-I'm Bill he said.
Oh no Oh No, my heart fled.

Wrinkled and bent with hands that
shook
Watery eyes with a shifty look
Hairless pate and toothless grin
(And I thought he'd look like Errol
Flynn!)

Now you yl's-please don't make this
dishearting mistake!
Woeful but wiser back at the rig
I'm listening now for a C.W. sig.

Contributed by Rich, W6JVA

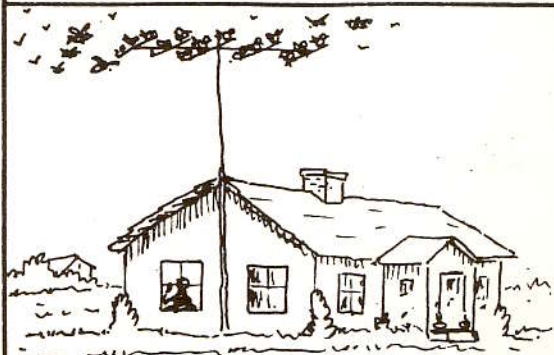
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Call BOB, WD6BP at 582-8707

FOR SALE: ICOM IC-SM2 DESK MIKE - Elec-
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used..... \$ 25
Call Walt, W6UZL at 292-7918.

HARMONICS

de WB6QEZ



"There must be something radically wrong with
my rig; I keep hearing an awful lot of funny
chirping!"

From The Call Letter (Poway ARC)

CAL'S CORNER

Well, the massive rainstorm of January is over and we can relax a bit while the cold wx sets in. My long johns were too moth-eaten to use so it was necessary to wear a couple pairs of my xyl's panty hose 'till I can buy some new ones. Sure needed 'em last night. Got so cold that when I sat a pan of hot water outside, it froze so fast that the ice was still warm. Can't understand what happened to Saint Nick, he ain't back from his rounds yet. He lives in Santee, ya know. That's why they call him Santee Claus. I've been building a new device for my two meter rig. It will definitely make me the fastest draw in the west. It's a reverse VOX which keys down as soon as someone stops talking. Anybody got a good Datsun grill for sale cheap? Seems that Little John, WA6HYQ and his lovely girl friend are both quite determined. They both decided to occupy the same parking place at the same time. Maybe the Santee Grill has a used one John. I still think that all candidates for office with SANDRA should come up on freq during the Sunday night 04/64 net and give us a rundown on themselves, their goals, intents and opinions of how the office should be run. Sorta campaign a bit. Who knows, we might elect a republican without knowing it and then it'll be too late. One more thing: Keep your eye on this column for a mind blowing, stupendous announcement in a future issue.

Cuddly Cal



WD6

Drink
Straight
Vodka



TEXAS STYLE

DALLAS AMATEURS FORM GROUP TO
REDUCE AMATEUR JAMMING

An automatic radio direction finding system is currently being developed to help clean up the 2-meter band. Called the Metroplex RDF Project by its

founders, Ken Winters, N5AUX, and J.R. Ewing, WA5WSN, the system will initially use four remote controlled RDF units located at strategic points surrounding the Dallas-Ft. Worth (Texas) metroplex. These two cities are about 30 miles apart and tests have shown that a one watt signal can easily be tracked at more than twice that distance across both cities under line-of-light conditions.

The proposed system will use Doppler type DF devices and synthesized 2-meter transceivers controlled by 220 or 450 mhz transceivers (possibly all HT's) via "black box" interface devices. The entire remote RDF unit including the antenna and power supply might be totally self-contained and housed within a one cubic foot cabinet. When the system isn't being used to track signals, the remote units can be switched over to remote base stations.

In actual operation, the remote units would be tuned to a specific frequency and each would take a bearing on every signal heard. The remote units would then transmit the bearings to a central control/decoding system consisting of a control link transceiver and a pocket sized microcomputer. The computer triangulates the bearing information and returns grid-map coordinates which indicate the location of the signal source to the central transceiver for transmission to the mobil D.F. operators in the vicinity of the source.

The most significant aspect of the project may not be the hardware, however. The overall program is being presented to the amateur community as a major project, professionally planned, organized and operated. In fact, the dual goal of the project is to establish not only a working system for automatic direction finding, but to establish a permanent, serious minded organization of individuals, repeater groups, and radio clubs across the country that will be capable of maintaining, using and expanding the initial system as far as the imagination can take it.

From W5YI report

METROPLEX

One of the features of the Sunday night and Wednesday night SANDRA nets is the WESTLINK AMATEUR RADIO NEWS. Over the past few weeks, WESTLINK has featured a story about a successful repeater operation in a very tough environment. SQUELCH TALES excerpts:

"With all the bad news we seem to be running into regards to repeater operation these days, it is kind of refreshing to run across what can only be termed as a true success story.

"Can you believe that there is a big city repeater with over 700 members, user access cross links to other bands, and an autopatch? Well there is, and it is located in the heart of the Big Apple - New York City.

"The system is called 'Metroplex', and in a three part story we learn how all this came about. Your host, one of the owners of this phenomenon, Burt Grebin, K2KLN:

"In late 1976 or early 1977, I got together with Alex, WB2MGB, and Andy, whose call at that time was WB2VUJ, and what we tried to do was to think about the kinds of things in VHF and UHF that were going on around the Tri-State area that were not really in the best interests or spirit of amateur radio, and come up with a way of providing a nice form on the air for amateurs who would feel welcome to an open system. Unfortunately at that time frequencies were not available for allocation through TSARC, the Tri-State Amateur Repeater Council, for this area. So, we went about the task of getting the equipment, buying it, and getting it all together, getting some sites, and just waiting for our turn. The sub-bands opened, and we were able to put our 145.450 machine on the air."

"Actually, Metroplex is more than a single system; rather, it is a group of repeaters owned by one club that operate on various VHF and UHF bands. How does a system this big survive? Burt Grebin tells us:

"500 members are active on any one of the repeaters. The numbers got big, I think, because people liked the way the operation went. It was casual. It was

open. We tried to stay away from the things that get people into difficulties. Like talking about Federal organizations, and talking about subjectives that might be argumentative.

(Burt went on to talk about how a system this big handles the problem of malicious interference.)

"To tell you that we don't have jamming would be an outright lie. I think every repeater, no matter where it is, experiences jamming. There are peaks and valleys to the jamming problem. The approach has been to basically ignore it. Stations do not try to overpower the jammer, they don't talk - at least on Metroplex this is the philosophy that we have practiced over the last four or five years, and it seems to be successful. We don't encourage them, and we don't talk about direction finding on the air. There is a committee that operates very quietly and does their thing. The legal boundaries are made clear to all members of the group so that nobody's toes are stepped on. I think by just ignoring the jammers we have probably dealt with them the best way we know how."

"One thing Burt didn't cover was the actual size of Metroplex. While it is a regional repeater group, it boasts members nationwide and worldwide. In fact, the day this interview was conducted, Burt welcomed a New Zealand station into the Metroplex family. If you want further info on Metroplex, write P.O.B. 237, Leonia, NJ."

Transcribed from WESTLINK

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SWAP MEET UPDATE

FIRST SATURDAY

ELECTRONIC swap meet, Santee Drive-In Theater Highway 67 & Mission Gorge Road, San Diego.

SECOND SATURDAY

POWAY Amateur Radio Society Flea Market, Westcom parking lot, Grand Avenue between Rancho Santa Fe & San Marcos Blvd.

THIRD SATURDAY

PALOMAR Amateur Radio Club Swap meet, Valley Vista Drive-in, north side of highway 76 (Mission Blvd), halfway between Camino Real and Airport Road.

LAST SATURDAY

TRW swap meet, NW corner of Compton & Aviation Blvd., Manhattan Beach.

ON THE AIR NEWS

The West Coast Radio School transmits amateur radio news at 5 p.m. on Monday and Tuesday evenings. Net control station is WB6NOA, Official Bulletin Station for the American Radio Relay League. The net control station is located in Costa Mesa, California. The frequency is 144.330 Mhz, FM. Good coverage through out the Southwest is

offered with 700 watts in a 10.5 db Omni directional antenna. Polarization vertical.

The same news is also on single sideband on Sunday evenings, 8 p.m. local time. The frequency used is 144.250 Mhz, upper sideband. S.W.O.T. check-ins will also be handled by net control station WB6NOA. Excellent southwest coverage with 1 KW and 2 KLM-16 up 60 feet. Polarization horizontal.

PROBLEMS OF THE MONTH

November Corrections.

Problem 1b = 15.9 Khz

December Answers

1. 125uv/meter
2. 50 ohms.

Jan Problems

1. The 10k ohms cathode resistor of a certain amplifier is by-passed to ground with a capacitor. If it is desired to operate this amplifier at a minimum frequency of 5 khz, what size capacitor should be used?

2. A series AC circuit has 20 volts across the resistor and 30 volts across the reactor.

- (a) What is the source voltage value?
- (b) What is the phase angle?

Fred Buell - N6CTX

NEW MEMBERS

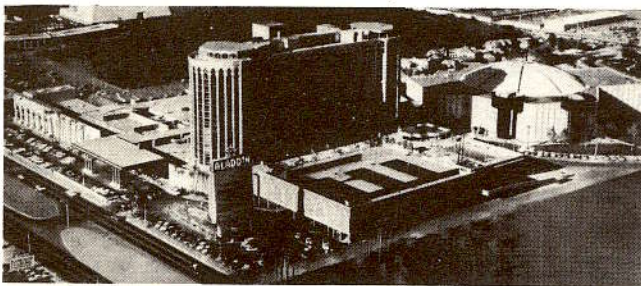
K6AQ	Evan R. Stover	5611 Adelaide Ave.	San Diego	92115	287-6652
WB6BKK	Steve Karas	921 Muirlands Dr.	La Jolla	92037	459-7001
N6CZQ	John M. Cordle Jr.	6470 Beaver Lake Ct.	San Diego	92119	697-2700
KA6DTK	William F. Manroe	3650 Fairway Dr.	La Mesa	92041	
WB6DUP	Walter J. Klinert	520 Division St.	Nat. City	92050	
N6DVL	Ralph P. Dempsey	2960 Naugatuck Ave.	San Diego	92117	272-7693
N6ELY	Teri Renko	10990 Pegasus	San Diego	92126	566-2092
W6FOL	Samuel C. Shelter	2063 Meridian	S. Pasadena	91030	258-1511
K2HML	Robert Johnson	P.O.B. 971	Reno, Nev	89504	
K6JEY	REV. Doug Millar	3472 Stockman St.	Nat. City	92050	267-3798
KA6LAH	Sara Millar	3742 Stockman St.	Nat. City	92050	267-3798
KA6LBL	Hazel E. Umbarger	3952 Bogoso Lane	Spring Valley	92077	465-1930
WB6MCA	Dick Hemphill	3242 Fairesta St. #2	La Cresta	91214	248-5097
W9MLW	Richard D. Prokop	880 Front St. Rm 6S31	San Diego	92188	231-1122
K6PP	Gene F. Horrall	620 Ecken Rd.	El Cajon	92020	442-3716
KA6RLA	Theresa Wolfe	Purdy St.	Spring Valley	92077	465-4065
WA6RYZ	Robert L. Crawford	9655 Jimzel Rd.	La Mesa	92041	469-2731
KB7TJ	John Annis	998 E. Main St. #12	El Cajon	92021	447-2544
K6YUJ	Sam Mangum	P.O.B. 6145	San Diego	92106	224-1254

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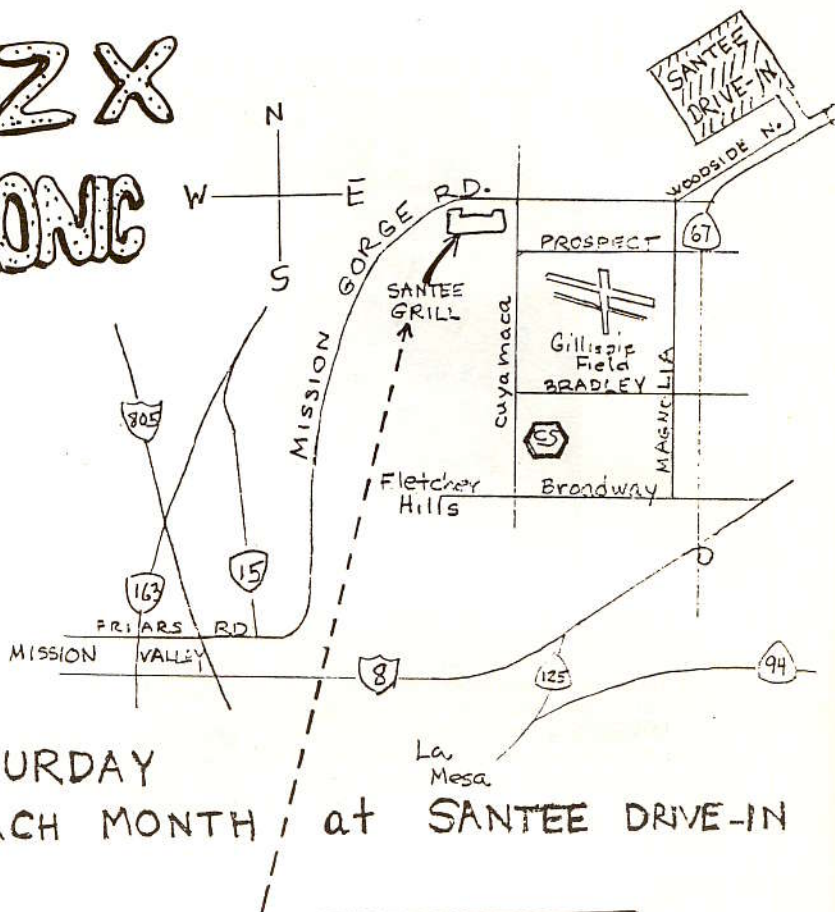
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- JAN. 16 REGULAR T-HUNT NITE. STARTS ON
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HEIGHTS. 8:00 PM
- JAN. 21 MEMBERSHIP MEETING, DEPARTMENT OF
EDUCATION, 6401 LINDA VISTA ROAD.
NOMINATIONS FOR OFFICERS. WRHV AND
HIS TRANSCONTINENTAL MODEL AIRPLANE.
7:30 PM.
- JAN. 28 SANDARC MEETING. BONANZA RESTURANT,
8105 CLAIREMONT MESA BLVD, 7:30 PM.
- FEB. 4 SANDRA BOARD OF DIRECTORS MEETING AT
THE BONANZA RESTURANT, 2633 EL CAJON
BLVD. 7:30 PM.
- FEB. 6 ELECTRONICS SWAP MEET AT SANTEE DRIVE
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