

SQUELCH TALES

SAN DIEGO REPEATER ASSOCIATION

VOLUME VI

FEBRUARY, 1978

NUMBER 2

ELECTIONS are COMING



At the January meeting, the following members were nominated for the Board of Directors for the coming year:

President.....	Robert Brunette.....	WAGSND
Vice President..	Wayne Bamford.....	WGPDA
Secretary.....	Esther Lizardi.....	WB6NEH
Treasurer.....	Jack Williams.....	WB6LXG
Membership.....	Earl Seeman.....	WAGLAG
Meetings.....	Dennis Vierek.....	WAGATI
Members-at-Large:	Alex Hodoyan.....	XE2IO
	Gil Severns.....	W6QR
	Dale Marriott.....	WAGRAE
	Dave Olson.....	WAGKAQ

Since there was only one person running for all offices except for Members-at-Large, a motion was passed at the General Membership Meeting to just vote for three of the four people running for the Member-at-Large position at the February meeting by voice vote instead of using almost \$100 of the club's funds to send ballots out to all members. So this will be done to save the club some money.

The picture above shows some of the people running for office: Left to right are Dennis, WAGATI, Dave, WAGKAQ, Bob, WAGSND, Esther, WB6NEH, Jack, WB6LXG, and Wayne, WGPDA.

SANDRA, INC.

The PURPOSE of our REPEATER SYSTEMS is to FACILITATE 2-WAY RADIO COMMUNICATIONS WHERE EXTENDED RANGE IS REQUIRED OR WHERE NATURAL OR MAN-MADE LIMITATIONS TO SIMPLEX COMMUNICATIONS EXIST.

MANDATORY REPEATER OPERATING PROCEDURES

VALID COMMUNICATIONS:

1. Emergency communications (IMMEDIATELY acknowledging breaks).
 - a) YOUR CALL - REGULAR OR TIME FACTOR TRAFFIC.
 - b) BREAK - BREAK (2 breaks) - EMERGENCY.
 - c) BREAK - BREAK - BREAK (3 breaks) - LIFE OR DEATH.
2. Public Service and demonstrations of Amateur Radio.
3. Short transmissions or exchange of information.
4. Announcements.

IN-VALID COMMUNICATIONS:

1. JAMMING in any form and ACKNOWLEDGMENT OF JAMMING OR INTERFERENCE.
2. LONG TRANSMISSIONS (except emergencies)
3. RAG-CHEWING - QSO's that could be handled adequately on simplex or another band.
4. BUSINESS COMMUNICATIONS.
5. TESTING ON REPEATERS.
6. ABUSIVE language of an offensive or distasteful subject matter.

INTERFERENCE REPORTING PROCEDURE

The first DO's are really DON'T's !! Don't acknowledge.

Don't discuss.

Don't antagonize,

Make the Jammer think his transmitter is not working.

OBSERVATION PROCEDURES

1. Listen on input - note frequency.
2. Note time and date of incident.
3. If you have a beam or DF gear, take a bearing (magnetic).
4. Note the signal strength and antenna you used (mobile, inside, ground plane, beam, etc.)
5. Transmission content; ie: music, carrier, talking, etc.
6. Any identifiable characteristics such as hum, background noise, off frequency or discriminator reading.
7. Personal observations and opinions as to the source.

FILING THE REPORT

1. CALL (714) 286-8550 (unlisted) - YOU HAVE 60 seconds.
2. Give your full NAME and Call.
3. Your location at time of incident, such as street address.
4. TIME of incident.
5. Bearing - magnetic as read on compass.
6. Signal strength and antenna you used.
7. Transmission content.
8. Identifiable characteristics.
9. Personal observations and suspicions.

Minutes

The meeting was called to order at 7:45. The treasurer gave the report printed elsewhere in this issue.

No word on Laguna antenna. It was supposedly shipped on Jan. 20th. The antenna on Otay was damaged in the last storm. The Board wants to buy a spare antenna so the repeater won't have to go off the air while the other one is being fixed.

At the general meeting a motion was passed to not mail out ballots since there was only one person running for office except for the Members-at-Large. There will be a voice vote for 3 out of 4 Members-at-Large at the February meeting. This will save the club about \$100.

220: No word on delivery. SANDRA has the option of 3 frequencies available to make 220 on Otay work. 60/20, Paul's frequency, or Lon's frequency.

Jack, WBGAXW is in charge of contacting the city about Bingo. This is a possible money-making activity for the club.

SANDRA will order the crystals for the low altitude HI-band repeater. Lon donated his former frequency: 146.775-146.175. This will give people meeting on Otay a place to go when they can't make it on simplex.

Feb. 11 will be the Election meeting for SCRA at Cerritos College.

Alex says that reciprocal licensing is moving closer.

Motion made, seconded and passed to propose raising of dues to \$15 annually instead of \$10 due to increases in costs. The motion included a grace period up to April 15 where members could pay in advance for as many years as they wish at the \$10 fee.

A discussion was held as to recommendations for the new Board. These will be passed along as well as the beautiful Leadership Manuals prepared by this Board with the help of Ron, WA6WVX.

The meeting was adjourned at 10:35.

Respectfully submitted,
Sybil Allbright
substituting for the Secretary

Notice!!

SANDRA will have to change the meeting night in June, July, and August in order to get an even better meeting place in about Sept. For those three months our meeting will be on the third Wednesday instead of the third Thursday. It will be at our present meeting place. In Sept. we are first on the list to get the new bank auditorium now being built. Then we go back to our regular Thursday night meeting.



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NEW EQUIPMENT SPECIALS

MIDLAND	13-505	\$239.00
ICOM	IC-21A	349.00
ICOM	DV21	283.00
ICOM	IC3PA	65.00
ICOM	IC3PS	79.00
ICOM	IC211M	13.00
ICOM	2MSSB	216.00
ICOM	IC502	210.00
SWAN	600PC	449.00
SWAN	35-40SL 40 mobil	25.75
SWAN	35-75SL 75 mobil	28.35

USED EQUIPMENT SPECIALS

AMECO	621	\$ 53.00
CLEGG	FM27B	239.00
DRAKE	RV-4C	129.00
DRAKE	ML-2	169.00
HAMMARLUND	HQ110	119.00
SWAN	250	189.00

MORE NEW EQUIPMENT SPECIALS

SWAN	3501	\$ 54.00
SWAN (PS-SPKR)	117YC	119.95

W6KCK Joe
WB6QCS Albert
WB6UTQ Al

TREASURER'S REPORT FOR JANUARY 1978

BEGINNING BALANCE JANUARY 1, 1978

\$181.81

INCOME

Dues & Initiation	\$264.00	
Door Prizes, Dec. Gen. Mtg.	33.00	
Special Door prize, Sears Xcvr.	56.00	
Squelch Tales Ads	225.00	
Squelch Tales Subscription	4.00	
TOTAL		\$582.00

EXPENSES

Administration & Supplies	\$ 75.00	
Pacific Telephone, Auto-patch	19.80	
Rent, Otay Site, February	50.00	
University Towne Center, Jan. Gen. Mtg.	10.00	
Squelch Tales, Print Jan. issue	170.17	
Squelch Tales, Mail Jan. issue	43.65	
Squelch Tales, Misc. supplies	17.36	
Door Prizes, Dec, Gen. Mtg.	66.14	
Door Prizes, Yuma trek	38.42	
Refreshments	11.77	
TOTAL		\$502.31

ENDING BALANCE JANUARY 31, 1978

\$261.50

SAVINGS ACCOUNT

BEGINNING BALANCE JANUARY 1, 1978

\$697.19

ENDING BALANCE JANUARY 31, 1978

\$697.19

.....

JOKE TIME-READ IT TWICE!

Once there was an Indian chief who had three wives. He was very happy with them all, so to prove his love, he gave each of them a present; to one he gave a buffalo hide, to another, he gave a cowhide, and to the third, he gave a hippopotamus hide.

Now, it happened that all three were pregnant. Surprisingly, all three gave birth on the same day. The wife on the buffalo hide had a son, the one on the cowhide had a son, and the one on the hippopotamus hide had twins.

All of which goes to prove that the sons of the squaws of the hide of the hippopotamus are equal to the sons of the squaws of the other two hides!

FROM YELLOW THUNDER SMOKE SIGNALS, Baraboo, WI

THE GREAT HIT 'N RUN CHASE

The great hit 'n run chase of Friday, December 2, began about 7:30 PM with WBSJYR being struck while in his Buick by a little sports car in No. Olmsted. Muriel, WDSCQI, was driving in the car ahead of George and when the sports car roared past in a getaway, Muriel took off in pursuit. A call on 220 WR8AGA brought forth Jerry, K8YUW, who dialed up the LEARA 88 system autopatch to the police and then a running account of the pursuit ensued.

It ended up with the violator being chased down a dead-end street by both pursuers; then the sports car roared off the end of the road across a field in a cross-country attempt to escape that was doomed to failure - the field was a sea of mud and 400 feet of forward motion ended in burying the car door-deep in mud. At that time, the Westlake Police arrived and took over while the hit 'n runner gunned his motor attempting to move away - but it all ended soon with his arrest, a trip to the station and a change of scenery from being outside to inside!

George suffered a dented door and a rear fender -- and Muriel earned as a nickname the title "Barney Oldfield", so well deserved from putting her long experience with road rallye contests to good use indeed in this race.....

from Lake Erie ARC paper "The LEARA NEWSLETTER"

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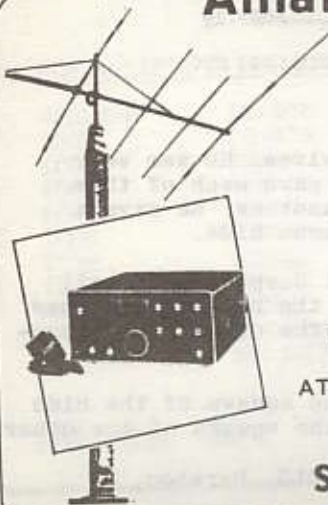
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SOUTHERN CALIFORNIA REPEATER ASSOCIATION

P. O. BOX 2606 • CULVER CITY, CALIFORNIA 90230

TO: Ed Flinn WA6YVX, Trustee, SANDRA

DATE: January 30, 1978

FROM: TOM RUTHERFORD, W6NUI - 220MHZ SUB-COMMITTEE CHAIRMAN

SUBJECT: NOTICE OF FREQUENCY CO-ORDINATION

REPEATER/REMOTE STATION CALL: WR6ACF LOCATION: San Diego
INPUT: 222.60 MHZ OUTPUT: 224.20 MHZ
CONTROL CHANNEL: XXXXXXXX MHZ
AUX LINK CHANNEL (UPLINK): XXXXXXX MHZ LOCATION: _____
AUX LINK CHANNEL (DOWN): XXXXXXXX MHZ LOCATION: _____

The above tentative frequency sanctions are based upon the information contained in your "Request for Frequency Co-ordination" (RFC) and are subject to a 90 day test period. All concerned co-channel and adjacent channel users are also being notified as indicated below. If there are any problems with these assignments, comments should be MADE IN WRITING WITHIN 14 DAYS. This tentative assignment shall be valid for 90 days, and then considered permanent if no valid evidence is received to the contrary. The following "Conditions", as indicated, are also part of this sanction:

- () HAAT calculations be supplied as per attached form.
- () Receiver documentation as per attached form.
- () FCC application must be received within 30 days for sanction to remain valid.
- ~~XXXXC~~ "WR" or Remote license to be received within six months for sanction to remain valid.
- () Other The above sanction verifies arrangement made at 220mc Technical Comm. meeting on Jan. 22, 1978 with Paul McClure, WA6HGK who will get another clear channel.

All frequency sanctions are subject to periodic committee review and may be cancelled due to six months or more inactivity. Since all sanctions are based upon the data in your RFC, any proposed system changes should be directed to the technical committee since other systems may be affected.

CO/ADJACENT CHANNEL USER NOTIFICATION

REPEATER CALL: WR6BBU LICENSEE/TRUSTEE: 222.58/224.18, Chino, Bill, WB6SNU
REPEATER CALL: W6HIL LICENSEE/TRUSTEE: 222.62/224.22, Long Beach, Bob, W6HIL
REPEATER CALL: _____ LICENSEE/TRUSTEE: _____

ALL comments should be made IN WRITING to the Technical Committee within 14 days. These comments will be considered prior to considering this action final at the end of 90 days.

cc: SCRA Secretary
WA6JPM
File

Tom Rutherford, W6NUI

ELECTRONIC SUPPLIES

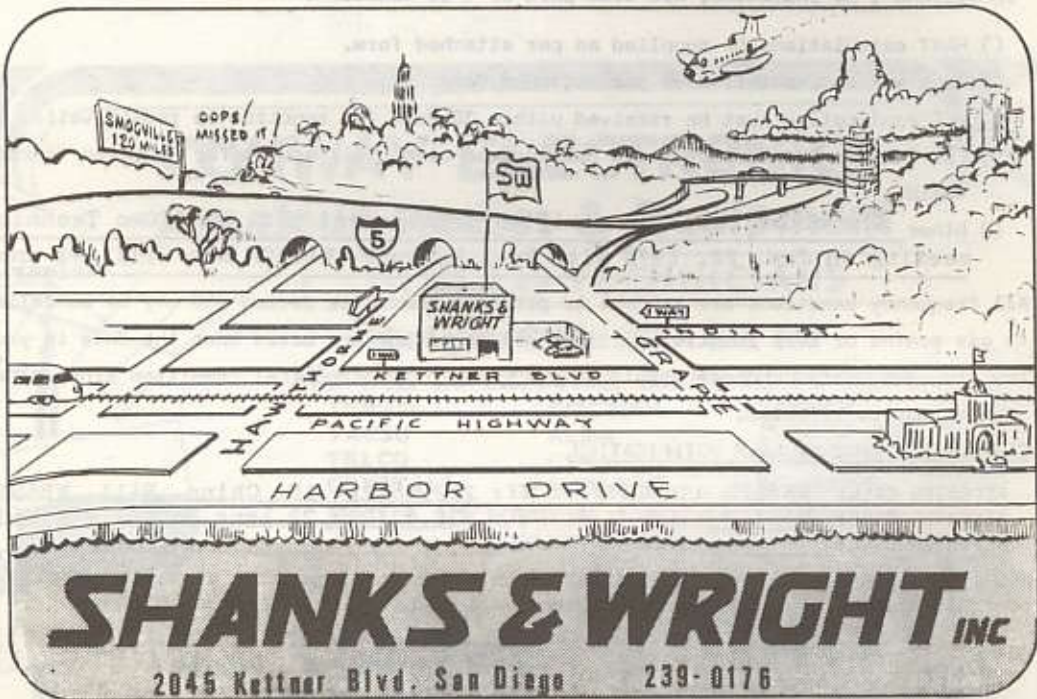
SINCE 1945

SW

W6BZE

W6OSD

W6DWA



Interference

-by Doug Hassel, WB9CEO

Since the beginning of time, man has lived with interference. Throughout our relatively short existence on this planet, interference has stuck with us as have famine, flood, pestilence and taxes. What has Man done to combat this ancient foe? Man went into the back yard, gazed up at the heavens and was rewarded - with the mechanical filter.

Mechanical filters were nice, but when man blazed new trails into the vast reaches of the spectrum, and reached the Promised Land of 2-meter FM, man discovered that themechanical filter was not enough. So, again man searched the heavens and hoped. Someone waved the magic wand and said, "Let there be helical resonators!"

Man rejoiced - helical resonators were a good answer to the problem of many types of off-frequency interference. But recently man is being threatened with a new type of interference - that which is generated by his fellow man - namely, jamming.

Jammers are a rare breed of men (or something similar) who intentionally interfere with that which is most vulnerable to them - repeaters. Repeaters are the perfect medium by which they can vent their frustrations to a large audience.

We have recently been plagued by jammers from all sides. Jammers who will stop at nothing to have their fun. In response to the large increase in jammers sprouting up, a group of amateurs with a common goal in mind has been formed. They are hard-working skilled people. These amateurs do not call themselves anything. They have been very successful to this date. They are not interested in grabbing credit, or the "glory of the kill". They are interested in preventing a hobby, which they love dearly, from turning into something like 11 meters, where the law of the jungle rules.

This group has a rather extensive intelligence network, complete with monitoring stations, investigative personnel, exhaustive records kept on as many jammers as can be found, and good relationships with law enforcement agencies at all levels.

Whenever the hunting team pinpoints a jammer, (which is happening all too often lately), there is no vigilante committee. The person responsible for the station on the premises where the interference is coming from is approached in a civilized manner, by two or more members of the hunting team, not at the time of the interference.

The responsible person is questioned to determine if he is personally responsible for the generation of the interference. If this person is responsible for the interference, he is given a choice - to cease and desist at once, or face exposure and possible prosecution.

from Chicago Squelch Tale

Sometimes a child will wander into someone's shack and operate the radio. Sometimes it's a young brother or sister. This is a small portion of the cases we have investigated, and the easiest to resolve. Sometimes we are dealing with a radio that was stolen, and is now in the hands of a non-licensed person.... These cases are the smallest portion of our operations.

Unfortunately, there are cases in which the licensed amateur is responsible for the jamming. This is a sad situation where the amateur has some resentment for a person on the repeater or for the repeater itself, and tries to make life miserable for everyone concerned.

The statement I am leading up to, is that most of the interference heard on repeaters is being perpetrated by our fellow amateurs. To me, this person is one of the lowest forms of life on earth. In a few moments of childish hatred, he is destroying a hobby that has prided itself on it's courtesy and consideration to it's members. The jammer's operation strongly opposes every principle that Amateur Radio stands for.

The purpose of this article is to educate. To educate YOU, the Amateur. To inform you that most of the jamming that appears on 2-meter FM is generated by other licensed amateurs. To inform the jammers and potential jammers reading this article that they should think about it before they degrade themselves and all other amateur radio operators. To inform all licensed amateurs, jammers or not, that a highly secretive, profusely skilled, tireless group of amateurs have formed a cohesive team dedicated to the elimination of jamming does, indeed, exist. To inform the Amateur Radio public that they should THINK the next time a jammer appears. They should think that transmitting a carrier on top of the jammer will not help to find him. They should THINK before they advise someone on the repeater not to talk to a jammer - that person may be a member of the hunting tea,.

I thank the Club for printing this article, and I sincerely hope that I have started you to seriously think about what jammers can do to this wonderful hobby if nothing is done about them.

HOW LIKE SANDRA!

This article could have been written by one of the Board of Directors of SANDRA - the same thing is happening here, and the club is taking almost the exact same steps.

I hope you all know that you can help the Interference Committee by calling in to our Interference and Information number - 286-8550. This number may be used for reporting any type of interference, for asking for an information packet to be sent to you, for changing your address, or just for communication with the people on the Board.

Your Ed., W6GIC

San Diego Teleprinter Society

The newly formed San Diego Teleprinter Society holds its monthly meetings every 4th Tuesday at the Bonanza Restaurant on Clairemont Mesa and Mercury at 7 PM. All Amateurs interested in RTTY are invited to come to the meetings.

You are also invited to join the net on 3607.5 every Wednesday at 7 PM. Also, there is a nightly ragchew on 145.7. The 220 RTTY Repeater will soon be in operation.

XX

DID YOU KNOW?

Did you know that besides listing the items you have for sale or wanted on the Sunday night net, you can get them to a greater audience by calling 278-4284 and listing them with the Editor of our club newspaper, SQUELCH TALES, and then they will appear in the paper the next issue. For example, here is one:

Heathkit HW101 with CW filter, Power Supply and Speaker for \$300. Call Ed, WA6YVX at 426-4881.

XX

T-HUNT...

This is an invitation to all members of SANDRA to try out T-Hunting. Dave, WA6KAQ, gave a very good talk on the subject at the last meeting. All you need is a beam, a receiver, and some type of attenuator.

The next T-Hunt will take place at about 7:30 to 8 PM on the Saturday following the General Membership Meeting. We all meet at the top of Del Cerro Heights by the Telephone Company towers. Come on out - we have a neat party at the end. This time the bunny will be Lon, W6SLF.

This is just another of the many interesting facets of

Amateur Radio.....

ITU Phonetic Alphabet

Word list adopted by the International Telecommunication Union

A	ALFA
B	BRAVO
C	CHARLIE
D	DELTA
E	ECHO
F	FOXTROT
G	GOLF
H	HOTEL
I	INDIA
J	JULIETT
K	KILO
L	LIMA
M	MIKE
N	NOVEMBER
O	OSCAR
P	PAPA
Q	QUEBEC
R	ROMEO
S	SIERRA
T	TANGO
U	UNIFORM
V	VICTOR
W	WHISKEY
X	X-RAY
Y	YANKEE
Z	ZULU

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Knights of the Airways



San Diego - your town and mine - Amateur Radio has no boundaries and the Knights of the Airways prove us right. This column is designed to honor the Amateurs in our community who are doing what comes naturally. The accounts recorded here are for the most part written without the knowledge of the participant. Such an honor is not worked for, asked for, nor is it expected when Amateurs are helping other people in need, whether the victim is an Amateur or not.

Dec. 18: North of Orange on Hwy 805 southbound lanes, a car ran off the road and landed in the ditch. WGYVY was on the scene and called for someone to call the CHP and ambulance. WA6OYI was monitoring 04/64 and picked up the distress call and proceeded with info to the CHP.

Palm and Plaza - Mr. Lowe, W6BKA calling for help. "I have a dead battery, and I need someone with battery cables." WA6UDU to the rescue. "WA6UDU, I'm away from my office, but I'll go back and get some cables and I'll be there soon. (He went back six blocks to get the cables.) WA6UDU got Mr. Lowe on the way.

Dec. 26: W6BYY, Gordon, on the scene where a camper has turned over near the center divider. "Send CHP and an ambulance, quick - North of Poinsetta on Hwy I-5." WB6RJB picked up the call a second later. Then W6HJB came on the scene and confirmed the location, "Three miles north of Encinitas, Leucadia area, 1/4 mile north of La Costa offramp. Info was relayed to CHP.

Dec. 29: 4:45 PM. Hwy 805 northbound, WA6YCA on scene "at intersection of I-5 and 805 - there is a grey Chrysler Cordoba on the soft shoulder - smoke billowing out from the hood. The people are just getting out. Call the Fire Dept!" An unknown amateur answered and made the call.

Jan. 3: 8PM, 805, Red sports car is on the soft shoulder. Ken, WB6VCC called for help. W3YEY/6 picked up the call.

On 805 at Carrol Canyon Rd, two cars overturned in southbound slow lane, gas was pouring out on the Hwy. WB7NNV was on the scene calling Otay. WB6NPT picked up the call and used the autopatch to call the CHP and the Fire Dept. W6ADD was one mile from the scene monitoring. He said he was on the way and would assist. No one injured.

W6VCE on the scene: Fedmart truck westbound I-8 at Mountain Springs Grade jack-knifed and hit a Pinto. One man was trapped inside Pinto. Two men stopped and tried to get him out. They checked his pulse - nothing. They were trying to get him out when it caught fire. Flames were shooting 100 feet in the air. W6VCE could not bring up Laguna. Finally received a response on 04/64. Other hams near or on the scene using simples got the CHP and Fire Dept. in action. The Fedmart driver was not injured. The Border Patrol was not far behind. Their radio didn't work. All communications was handled by amateurs. W6LAW handled the traffic - called all emergency vehicles. W6VCE stayed on scene until everything was in good shape.

KNIGHTS OF THE AIRWAYS (continued)

Jan. 26: 4:30 PM. WD6DJK called CHP for an accident on 805 - a car sideways in center lane. No one hurt.

All of these reports are from WA6OYI monitoring. Wish someone else would send in others they hear. I can't monitor all the time!

Many thanks to all amateurs doing their jobs in Public Service. This is what makes Amateurs special. Chicago prints their Public service reports in a colum called EARS. Just so you can see what they do, the following is an excerpt from their paper - Squelch Tale, January issue. Please call in or write Dennis Romack, WA6OYI at 3970 Mt. Albertine Way, San Diego, CA 92111 or call 292-5276.

73's, Dennis

EAR

Compiled by WA9NNN ~~ditk~~

Emergency Assistance Report

I have received a large number of cards upon taking over the EAR editorship, but only six were from December. A new supply of cards should be ready next month. Some of the old ones will be available at the meeting at Cavellini's.

Last Sept 11th Mike, CPMC's HAM HELP chairman called the Evanston PD to contact Chicago for paramedics to assist at an accident with injuries at 84th and the Dan Ryan. Earl W9CK made the original call.

Larry, WB9LOZ used the 220 autopatch to call the Police for assistance to a stalled auto on 294 near Dundee Road on 9/15/77.

A three car accident on the Calumet Expressway at 123rd was aided by WB9RZO calling WB9PCB who called the Chicago PD last October 3rd.

The 220 autopatch keeps getting more and more use in emergency situations Joe, WB9THV called the Sheriff's Police on 10/2 for an accident on the Kennedy near Edens; Squeak, K7RBM, our new president called the Minutemen for a motorist with a blown tire in a traffic lane of I-90 on 11/1/77; and Joe again on 12/11 used the autopatch to call the Mt. Prospect PD about an accident on Rt. 83 at Dempster.

K9MDM, Lefty called WB9YYD who called the State Police and Skokie Police for 2 accidents just 2 miles apart on the Edens last Oct. 7th.

Herb, WB9YGK relayed to the Niles PD of a 3 car accident at Dempster and Harlem reported by WB9WGI on October 31.

Thanks to Pete, K9VCE and Doug, WB9TWW a Niles Snowplow was sent clean-up the snowy mess at Milwaukee and Dempster on Nov 11th after Doug called the Niles PD.

Doug was kept busy later that month on the morning of the 16th when he reported 2 stalled cars, one stalled bus with on of the cars blocking traffic on the I-90 xway near I-294. K9BCH and W9GDH assisted. The Cook County Sheriff was notified.

On 11/22 WB9UHA ran out of gas on I-55 near Pulaski. WB9OXW answered his call for help by bringing him a gallon of gas.

A stalled car on the Calumet Xway blocking traffic was reported to the State Police by Lee, W9MGL after Chuck, WB9EJV called on CPMC.

Lee, W9MGL called the Sheriff at 10am on Dec 23rd to relay a message from WB9YKB about a stalled car at Harlem and North Av. Just an hour and a half later he called the Sheriff again to report an accident with injuries on the Eisenhower East of Sacramento as reported by W9IHM.

Also on Dec. 23rd K7RBM, Squeak notified the Police of a 3 vehicle accident on the Edens at Old Orchard, as reported by WB9MOV.

Be sure to keep a copy of the list of emergency numbers elsewhere in this issue handy along with your supply of EAR cards.

January Meeting



SAROC Hospitality Room Scenes



DIODES/ZENERS				SOCKETS/BRIDGES				TRANSISTORS, LEDS, etc.			
1N914	100v	10mA	.05	8-pin pcb	.25	ww	.45	2N2222	NPN	(Plastic .10)	.15
1N4005	600v	1A	.08	14-pin pcb	.25	ww	.40	2N2907	PNP		.15
1N4007	1000v	1A	.15	16-pin pcb	.25	ww	.40	2N3906	PNP		.10
1N4148	75v	10mA	.05	18-pin pcb	.25	ww	.75	2N3054	NPN		.35
1N753A	6.2v	z	.25	22-pin pcb	.45	ww	1.25	2N3055	NPN	15A 60v	.50
1N758A	10v	z	.25	24-pin pcb	.35	ww	1.10	T1P125	PNP	Darlington	.35
1N759A	12v	z	.25	28-pin pcb	.35	ww	1.45	LED Green, Red, Clear			.15
1N4733	5.1v	z	.25	40-pin pcb	.50	ww	1.25	D.L.747	7 seg 5/8" high com-anode	1.95	
1N5243	13v	z	.25	Molex pins .01	10-3 Sockets		.45	XAN72	7 seg com-anode	1.50	
1N5244B	14v	z	.25	2 Amp Bridge	200-prv		1.20	FND 359	Red 7 seg com-cathode	1.25	
1N5245B	15v	z	.25	25 Amp Bridge	200-prv		1.95				

C MOS			- T T L -			TRANSISTORS, LEDS, etc.					
4000	.15	7400	.15	7473	.25	74176	1.25	74H72	.55	74S133	.45
4001	.20	7401	.15	7474	.35	74180	.85	74H101	.75	74S140	.75
4002	.20	7402	.20	7475	.35	74181	2.25	74H103	.75	74S151	.35
4004	3.95	7403	.20	7476	.30	74182	.95	74H106	.95	74S153	.35
4006	1.20	7404	.15	7480	.55	74190	1.75			74S157	.80
4007	.35	7405	.25	7481	.75	74191	1.35	74L00	.35	74S158	.35
4008	.95	7406	.35	7483	.95	74192	1.65	74L02	.35	74S194	1.05
4009	.30	7407	.55	7485	.95	74193	.85	74L03	.30	74S257 (8123)	.25
4010	.45	7408	.25	7486	.30	74194	1.25	74L04	.35		
4011	.20	7409	.15	7489	1.35	74195	.95	74L10	.35	74LS00	.35
4012	.20	7410	.10	7490	.55	74196	1.25	74L20	.35	74LS01	.35
4013	.40	7411	.25	7491	.95	74197	1.25	74L30	.45	74LS02	.35
4014	1.10	7412	.30	7492	.95	74198	2.35	74L47	1.95	74LS04	.35
4015	.95	7413	.45	7493	.40	74221	1.00	74L51	.45	74LS05	.45
4016	.35	7414	1.10	7494	1.25	74367	.85	74L55	.65	74LS08	.35
4017	1.10	7416	.25	7495	.60			74L72	.45	74LS09	.35
4018	1.10	7417	.40	7496	.80	75108A	.35	74L73	.40	74LS10	.35
4019	.60	7420	.15	74100	1.85	75110	.35	74L74	.45	74LS11	.35
4020	.85	7426	.30	74107	.35	75491	.50	74L75	.55	74LS20	.35
4021	1.35	7427	.45	74121	.35	75492	.50	74L93	.55	74LS21	.25
4022	.95	7430	.15	74122	.55			74L123	.85	74LS22	.25
4023	.25	7432	.30	74123	.55	74H00	.25			74LS32	.40
4024	.75	7437	.35	74125	.45	74H01	.25	74S00	.55	74LS37	.35
4025	.35	7438	.35	74126	.35	74H04	.25	74S02	.55	74LS40	.45
4026	1.95	7440	.25	74132	1.35	74H05	.25	74S03	.30	74LS42	1.10
4027	.50	7441	1.15	74141	1.00	74H08	.35	74S04	.35	74LS51	.50
4028	.95	7442	.45	74150	.85	74H10	.35	74S05	.35	74LS74	.85
4030	.35	7443	.85	74151	.75	74H11	.25	74S08	.35	74LS86	.65
4033	1.50	7444	.45	74153	.95	74H15	.30	74S10	.35	74LS90	.95
4034	2.45	7445	.65	74154	1.05	74H20	.30	74S11	.35	74LS93	.95
4035	1.25	7446	.95	74156	.95	74H21	.25	74S20	.35	74LS107	.85
4040	1.35	7447	.95	74157	.65	74H22	.40	74S40	.25	74LS123	1.00
4041	.69	7448	.70	74161	.85	74H30	.25	74S50	.25	74LS151	.95
4042	.95	7450	.25	74163	.95	74H40	.25	74S51	.45	74LS153	1.20
4043	.95	7451	.25	74164	.60	74H50	.25	74S64	.25	74LS157	.85
4044	.95	7453	.20	74165	1.50	74H51	.25	74S74	.40	74LS164	1.90
4046	1.75	7454	.25	74166	1.35	74H52	.15	74S112	.90	74LS367	.85
4049	.70	7460	.40	74175	.80	74H53J	.25	74S114	1.30	74LS368	.85
4050	.50	7470	.45			74H55	.25				
4056	.95	7472	.40								
4069	.40										
4071	.35										
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.....19

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Newington, Conn., U.S.A. 06111

Being genuinely interested in Amateur Radio, I hereby apply for membership* in the American Radio Relay League. I enclose remittance (\$9.00 in the U.S., \$10.00 in Canada, \$10.50 elsewhere, U.S. funds) in payment of dues for year(s), including subscription to QST for the same period. Please begin QST with the issue. Amount enclosed: \$
The call of my station is
The class of my operator's license is
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Send Membership Certificate or Membership Card

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Address

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A bona fide interest in amateur radio is the only essential requirement, but full voting membership is granted only to licensed radio amateurs of the United States and Canada. Therefore, if you have a license, please be sure to indicate it above.

*Membership is available only to individuals. Life Membership is granted to members for \$180 (\$200 Canada, \$210 elsewhere). Write the Secretary for details.

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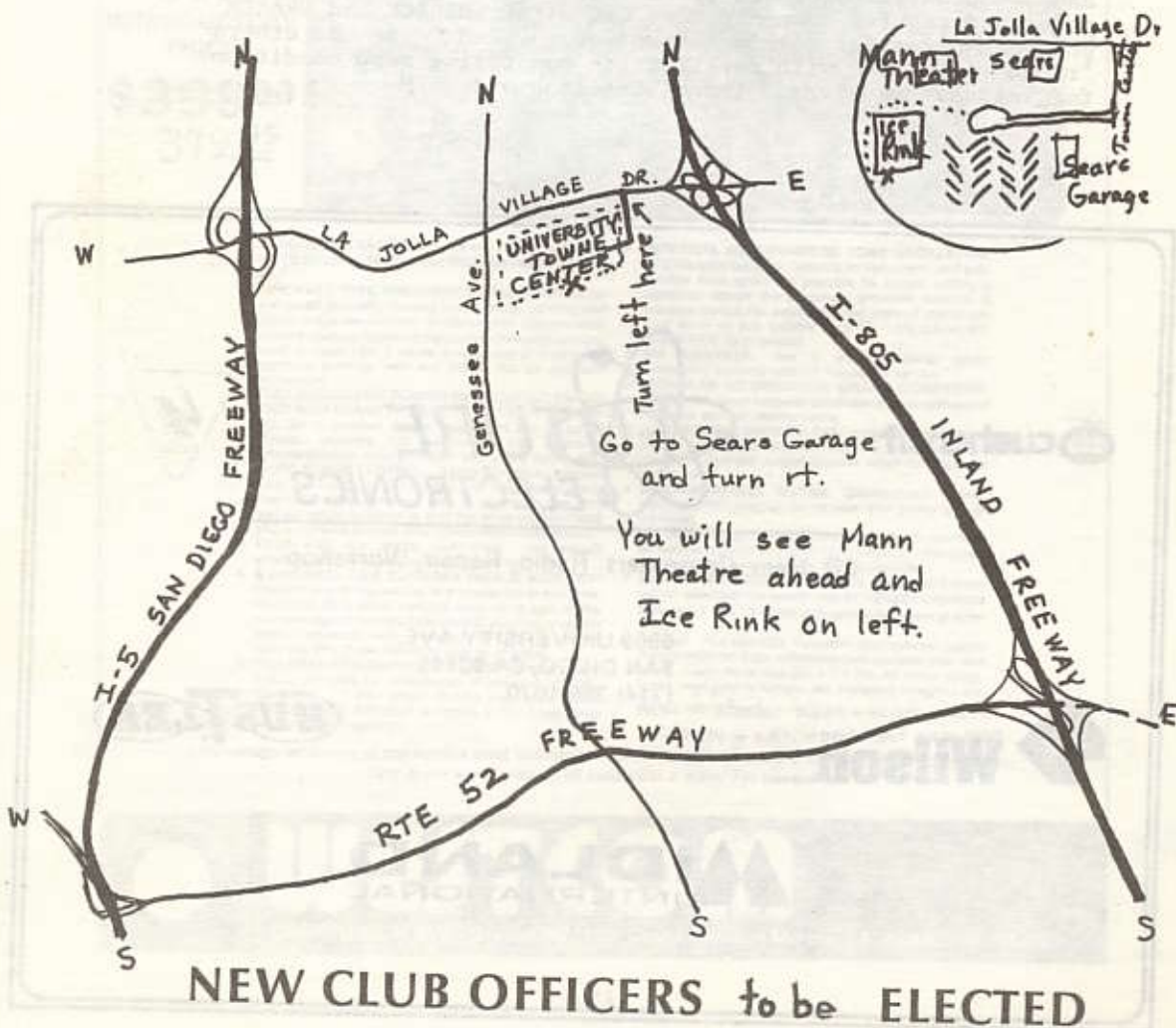
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NEXT MEETING

The next meeting will be on the subject of OSCAR. I am printing the map of our new meeting place one more time so you who have not been there may find it. After you park near the theater on your right and the Ice Rink Building to your left, go straight West through the Mall until you get to the end of the Ice Rink Building. You will see a curved sloping sidewalk which takes off to your left and goes down to the bottom of the slope. Turn east in to the entrance of the Ice Rink on the West lower level and you will see our meeting room on the left just before you would enter the Ice Rink. An alternate is to go through the Ice Rink and out the lower West door. Our meeting place will be on your right.

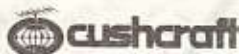


LEW McCOY, WIICP, is in the hospital with a heart attack that hit him last week as he shoveled snow in that East Coast storm. Lew, who is "Mr. ARRL" to literally tens of thousands of Amateurs, is getting along well but is expected to be out of action for two to three months. He's in Room 1257, Hartford Hospital, Jefferson Street, Hartford, Connecticut 06106.

TEXAS' TORNADO EMERGENCY just before Christmas generated much Amateur Radio assistance as three twisters, one causing considerable damage, were sighted. Repeaters WR5AAA, ATY, AFK, and ABX all helped in coordinating activities of various government agencies and handling over 250 health and welfare messages. About 600 buildings were damaged, though only a few injuries and one death were reported. Amateur Radio communications got very good media coverage during the episode. Thanks Westlink and W5TXV.

The Recent High Winds (some over 100 mph) in California's San Joaquin Valley caused \$14 million in damages while wiping out power and regular communication circuits. WR6ACE and WR6ALM provided essential communication for the Red Cross and others 'round the clock, with mobile units monitoring road conditions for holiday travelers. Thanks Westlink and W6ZH.

HR REPORT



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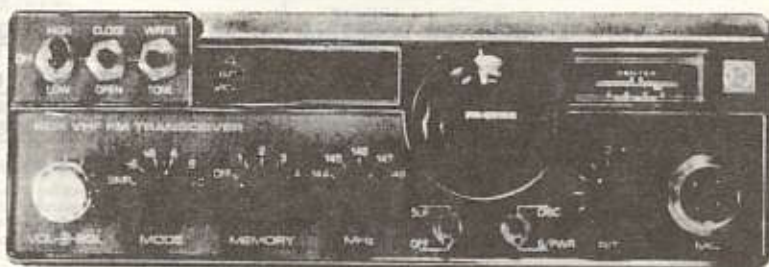


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- **TRUE FM:** Not phase modulation - for superb emphasized hi-fi audio quality second to none.
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- **MULTIPLE FREQUENCY OFFSETS:** Three positions A,B,C, provided for installation of optional crystals: EXAMPLE - 1 MHz offset. Duplex Frequency Offset Built in - 600 KHz plus or minus 5 KHz steps, plus simplex, any frequency.
- **INTERNAL MULTIPURPOSE TONE OSCILLATOR:** 1750Hz tone burst for "whistle on operation" and sub-audible tone operation possible by simply adding a capacitor across the terminals provided. Internal 2 position switch for automatic and manual operation, tone burst or sub audible tone PL - adjustable 60-203Hz (100 Hz provided).
- **RIT CONTROL:** Use to improve clarity when contacting stations with off frequency carrier.
- **MODULAR COMMERCIAL GRADE CONSTRUCTION:** 6 Unized modules eliminate stray coupling and facilitate ease of maintenance.
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ACCEPTED PROCEDURES

- I. IMMEDIATELY ACKNOWLEDGE A BREAKING STATION AND YIELD THE CHANNEL.
(Breakers should return the repeater to the existing QSO.)
- II. NEVER ACKNOWLEDGE JAMMERS OR INTERFERENCE OR TALK TO OR ABOUT IT.
- III. NEVER CONDUCT ANY KIND OF BUSINESS ON THE AIR.
- IV. DO NOT MAKE UNIDENTIFIED INTERJECTIONS OR RESPOND TO THEM.
- V. DO NOT USE DISTASTEFUL SUBJECT MATTER AND LANGUAGE ON THE REPEATER.
- VI. DO NOT TALK TO OBVIOUSLY INTOXICATED PEOPLE ON THE RADIO.
- VII. YIELD TO HIGHER PRIORITY TRAFFIC AS OUTLINED HEREIN.
- VIII. USE SIMPLEX WHENEVER POSSIBLE SO AS TO RELEASE THE REPEATER.
- IX. DO NOT MONOPOLIZE THE REPEATER. PAUSE FOR BREAKERS ONCE IN A WHILE.
- X. TESTING ON THE REPEATER IS DISCOURAGED. IT CAN BE DONE ON SIMPLEX.

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El Cajon.....422-5595	El Cajon.....442-3351
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San Diego.....238-1212	San Diego.....236-5911
U.S. Fortst Service..293-5262	County Sheriff....236-3111
AMBULANCE: La Mesa...461-1222	FREEWAY PATROL.....295-5177
National City..263-2333	CALIF. HIGHWAY PATROL...283-6331
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7:30 - Program: OSCAR. ELECTION.
- Feb. 18: SET and T-Hunt starting at the
top of Del Cerro. 7:30 PM. Lon
W6SLF will be hiding.
- Feb. 23: SANDARC meets at the Red Cross
Building at 3650 Fifth Ave. at
7:30 PM.
- Mar. 2: Board of Directors Meeting of
The new Board at the Hamburger
House on Clairemont Mesa at Rolfe.
Rolfe. 7:30 PM.
- BREAKFAST EVERY SATURDAY FOR ALL HAMS:
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