

SQUELCH TALES

SAN DIEGO REPEATER ASSOCIATION

VOLUME VII

JULY, 1979

NUMBER 7

IT'S NOT THAT
OUR GOOD DEEDS
ARE PERFORMED
FOR THANKS - BUT
OUR SURVIVAL MAY
DEPEND ON LETTING
THE WORLD KNOW
ABOUT THEM!

- Lenore Jensen W6NAZ

Thanks, Lenore - we needed that!

**A once in a lifetime
opportunity to
purchase a
POWERHOUSE
radio at a
Give-Away
Price!**



350B
200 watt PEP



HF 700S
500 watt
PEP



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AN ERA!**
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RADIO EQUIPMENT & PARTS
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POWAY, CA. 92064

After 16 years continuous production totaling 55,000 radios, Swan has decided to discontinue production of tube type radios to make way for full production of solid state designs.

Swan will support these radios with factory service and parts for the years to come.

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Look to Swan — Look to Value.

FROM THE EDITOR'S DESK . . .

Probably some of you are getting tired of so much of Squelch Tales being a 'one man show' Well... you know the answer to that! Send in material and we will change the percentage.

By the way - it is our intention to maintain at least a 'five-flat-two-up' issue with the cover, (24 - 7x8½ pages in all), for the rest of this year. Help keep our Squelch Tales up to the high standard that has been established by the previous editors - so send in any items you think the rest of the members would like to see. (Note: If you hate the idea of writing just give me a landline and I'll take it down on tape as a special dispensation, hi). On all items, submitted to Squelch Tales, the Editorial Staff maintains editing rights as a responsibility to both the membership and the Board of Directors.

For those of you who are wondering why this department* does not contain 'Editorials-From-The-Editor' - there's no need. Just read the 'President's Page (or Report)' department - the 'editorial' is there.

We are featuring a 'Letter-To-The-Editor' Department for the first time this year. Speaking for the Staff, I feel that this is a very important department as it provides an opportunity for any member or guest of Sandra to address the readership in print. As with this issue's contribution, from Cal, an opportunity to express "TNX" to a fellow ham for the help he rendered Cal, WD6DSV. Also, as here, we would like to print each letter in full reproduction. However, for legibility, editing, or other reasons of printing, we might have to reproduce in "facsimile". Moreover, if for any reason, we must materially alter a 'Letter', (i.e., more than spelling or other slight correction, we will advise the writer and secure his ok before publishing it as his letter. All items submitted to the Editorial Staff must be identified by the writer's name. We will withhold the name of the writer if so requested and the letter is substantive.

Many of you older members probably will recall some of the very excellent technical articles one of your former editors, John, WB6VIQ, used to prepare and publish in Squelch Tales. Unfortunately, your present editor is about as up to date in solid state electronics as the horse & buggy is to the automobile. However, we will continue to print any special circuitry and 'Handy Hint' that we come across. To this end, if you have a particular circuit innovation you have come up with and found to be a helpful modification to an existing gear such as that submitted by Bill, WB6JAR, as shown on page 14 of the June issue please send it along. We will try to feature at least one of these 'Technical Tid-bits' in each month's copy of Squelch Tales.

That's the "thirty" for now,

Ly

*The term "department" refers to a subject category as explained in the February issue of Squelch Tales, (Volume VII, Number 2, page 3).



PRESIDENT'S COLUMN, Continued

There are eight standing committees and three ad hoc committees now active as shown below:

Table 1. Active committees

<u>A. Standing Committees</u>		<u>B. Ad Hoc Committees</u>
Meetings - WA6MDD/N6BSD	Membership - WA6KHA	Swap Meet - W6SZX
Publication - N6LY	Property - WA6MDD	Interference Policy-W6GIC
Emergency Coordinator-W6INI	Tax Committee - W6TXK	Board Photo - WB6DIT
Technical - W6PDA	Imperial Valley - WB6PMF	

Table 2. Committees not Implemented

Publicity	Education
Inter-club Liaison	Interference
Grievance	Survivors Assistance
Public Agencies	Finance & Audit

● Matters relating to several of the standing committees which have not been implemented to date will be presented to the membership at the regular membership meeting on July 18th, together with recommended action for membership consideration.

Hope to see you there



Fairmount Electronics

COLLINS R-390A RECEIVER WITH SSB ADAPTER
SBE-34 XCVR WITH VOX - 100 KC CALIBRATOR - SSB
MULTI-ELMAC XCVR CW - AM 6 - 80 METERS - MINT!
KENWOOD 59R RCVR - - MINT!
HEATHKIT SB-300 SSB RCVR, NICE, ETC., ETC.

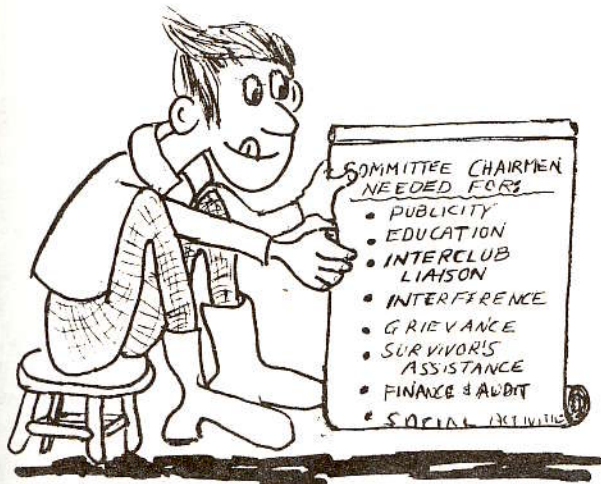
SELL OR SWAP!

NEW - SPECIAL! LOWEST PRICES IN TOWN

PACE COMMUNICATOR 25 WATT 2 METER MOBILE
NDI 25 WATT 2 METER MOBILE
COMMTRONIX 10 METER FM - XCVR

3721 FAIRMOUNT
SAN DIEGO, CALIFORNIA
714-282-8910

DON'T FORGET - WE BUY, SELL, SWAP. WE NEED CONSIGNMENTS
GET RID OF YOUR OLD GEAR!



Activity on the Board-On-The-Air net has been very gratifying with much very improved membership participation. Several of the Monday night nets have run well past the 8:30 PM closing originally scheduled to permit members to be able to QSY to the Westlink Broadcasts scheduled at that time.

It is my intention, as net control to limit the formal part of the net to the half hour, after which, any of the Board members present can continue further discussions while others can go to the Westlink Broadcast frequency.

Regarding net discussions, none of us on the Board wish to limit the opportunity for members to ask any substantive question, we do intend to avoid a 'polarized' discussion that leaves the majority 'on-the-side', or one which becomes 'circular' as so aptly put by Larry, WA6AIL.

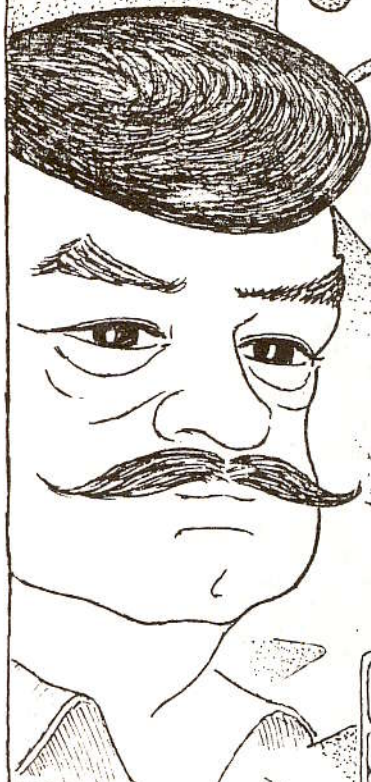
Secondly, remarks which could be construed by outsiders as detrimental to Sandra or amateur radio should not be made on general coverage repeaters. Instead, we should use a more restrictive means such as VHF/UHF simplex, (when possible), a HF band frequency; or if a 2-person QSO, why not the landline? Also, if you are not afraid to be 'in print' drop me a note by the U. S. Mail and I'll see to it that it comes to the attention of the Board.

Over the past months many concerned Sandra members have raised a number of critical questions regarding such matters as: (a) control provisions for our repeaters; (b) installation of the 220 MHz repeater on Laguna; (c) equipment update of the Otay 2 meter repeater; (d) Laguna 2 meter repeater performance restoration; (e) jamming on Sandra repeaters; (f) Ensenada (Mexico) interference to Otay 2 meters; (g) Sandra repeater site problems; and (h), the currency and completeness of reports on the system technical matters. Special reports will be given here in Squelch Tales as solutions or gainful progress is made on each of these questions as well as short announcements on the Sandra Nets.

Presented as an agenda item at the membership meeting, but lightly stressed, was the question of Sandra committees. Listed below in Table 1 are the functioning committees of Sandra. In Table 2 are listed those committees in need of implementation. An organization of nearly 700 members must depend upon the volunteer efforts of some dedicated members if operating costs are to be kept low. Currently, this necessary volunteer help is being carried by less than 5% of the Sandra membership. Many of our volunteers are donating much of their time and mobility costs, (i.e., gas at 90+¢ per gallon counts up!) to keep the dues at \$10 per year. So if some of you possibly can, speak up to help on one of the committees needed for a well-functioning association.

Continued on page 4.

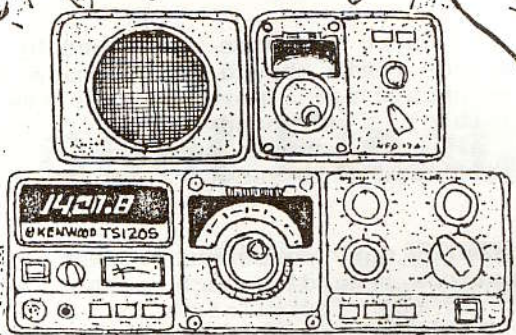
HAM RADIO OUT!



**KB6GU
TOM**



**K6NA
GLENN**



we've started goin' home
at 5:30 PM!!!

HOURS 10 TO ~~X~~
MON. THRU SAT.

560-4900

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SAN DIEGO CA 92123

Kenwood's Super NA
HF MOBILE

- BROADBAND!
- DIGITAL READOUT!
- I.F. SHIFT!

under \$700⁰⁰!

Dear Editor,

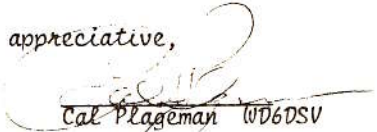
I would like the privilege of publicly thanking a fellow amateur radio operator for his offer of assistance to me on the evening of June 10, this year.

At about 11:00 PM on this day, I had a flat tire and found that my spare rim would not fit and was stranded out in Ocean Beach. I called the local police department on the auto patch and they informed me that no service stations were open at that time of the night which could assist me. After exhausting all avenues of escape, and resigned to either waiting out the night or taking a taxi back to my home in Santee, an amateur radio operator WB6RES handle John, who was in Clairemont Mesa, offered to come way out to Ocean Beach, pick me up and help me find a place where I could get my tire repaired. Needless to say, this would have been a very long trip and an extreme inconvenience to him but he repeatedly called me on the autopatch and again and again offered me assistance. I was able to call a tow truck and have the tire re-inflated and made a mad dash for Santee but during that rush for home, I had with me, the knowledge and re-assurance that should I have not made it, one amateur radio operator was willingly standing by to give me any help I required.

I have been an amateur radio operator for just over a year now and I am still being amazed at the willingness of other amateurs to help other amateurs. My only regret is that I did not become involved in this fantastic hobby many years ago.

Therefore, I would like to express my sincere thanks to John, WB6RES and to let him know that should another amateur ever need assistance, I vow to do as much as I possibly can for him, hopefully, that this attitude will grow and grow and be commonplace. Thanks so much, John.

Most appreciative,


Cal Plogeman WD6DSV

July 6, 1979

Larry Harvey N6LY
President, SANDRA, Inc.
4535 Niagara Street
San Diego, California 92107

Larry, I read "Dear Abby" regularly - along with Squelch Tales, of course. Recently she offered a quote which is timely and quite appropriate to today's realities. She wrote "A man who says he isn't interested in politics is like the drowning man who says he isn't interested in water". Politics has aptly been described as the "art of the possible" and, when practiced out in the open, is the healthiest of paths to moral and democratic decisions.

The other evening I stopped by the SANDRA Board meeting where the weighty matters of state were being pondered. One item stirred my interest to the point where I, quite openly here, propose to do a bit of "politicking" for I feel that a policy change should be considered on that "item".

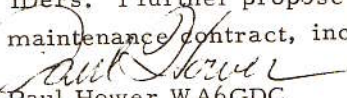
On the whole, the Trustees of the Association's repeaters have done a commendable job for a considerable period of time with very little thanks - and plenty of abuse they haven't deserved. I, for one, appreciate their work and that of those who have actively assisted them in keeping the machines going. That appreciation also includes the "control operators" who, except for the Sharp's machine, have done little to reveal their identity.

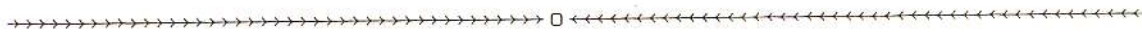
Recognizing that SANDRA is no longer a small group of personal friends but, instead, a rather sizeable number of subscribers to Squelch Tales and privileged (?) users of the facilities who are also members of the California corporation which owns and manages those facilities. In the transition I feel, as Gil expressed it so well the other evening, "I've been in the dark so long I've lost my tan!"

You are the President of the Corporation and its Chief Executive Officer -- the one person who must ultimately account for everything the Corporation does. Things it presently, in my opinion, is not doing very well are: (1)remedying some of the obvious operational problems on the repeaters, and (2) quieting the clamoring of the membership for relief from those same problems.

If I, as a member, have something of a critical (and, hopefully, constructive) nature to say then I want it to be heard and considered by someone who can be called to account for their response - or lack of it! Now..... for the politicking!

I propose that the President assume the Trusteeships for all of the SANDRA repeaters. Each successor to the President will likewise assume that responsibility with their call letters programmed into the IDers. I further propose that all of the repeaters be placed under a maintenance contract, increasing the dues to do so, if necessary.


Paul Hower WA6GDC



BOTH LETTERS HAVE BEEN REPRODUCED AS ORIGINALLY SUBMITTED. HOWEVER, WE RESERVE THE EDITORIAL RIGHTS AS NOTED ON PAGE 3, PARAGRAPH 4, AND WILL ACCEPT LETTERS-TO-THE-EDITOR FOR PUBLICATION ONLY UPON THESE CONDITIONS. - ED.

MINUTES OF THE MEETING OF
THE BOARD OF DIRECTORS

The regularly scheduled meeting of the Board of Directors of SANDRA, Inc. was held on July 5, 1979 at the Bonanza Restaurant, 2633 El Cajon Blvd., San Diego, California at 7:30 PM.

Board members present: N6LY, W6QR, W6GIC, WA6MDD, WA6KHA, WB6CYX,
WA6AIL. (WB6PMF is in the hospital)

Guests present: KA6FDK, WB6DIT, WA6URS, WA6GDC.

The minutes of the previous meeting were approved as published.

The Treasurer reported, copy of his report is printed elsewhere in Squelch Tales.

Property Committee: WA6MDD has not had a chance to visit the sites.

Publications Committee reported that not many members are taking advantage of the free ad policy for members.

Small Claims: \$100 was collected from the party in question.

Ron Earl has been appointed head of the Tax Committee, and Larry is getting the packet ready to turn over to him.

SANDRA has been asked to participate in the marathon sponsored by the Blood Bank. There was favorable comment among the Board members.

It was moved seconded and passed to give an Honorary Membership to Mike Sullivan, WA6HJJ for the service he is performing in handling bulletins on all SANDRA nets and others in the area.

Dave Olson is in charge of the picnic. It was decided to have the picnic in an area to be researched by KA6FDK (probably around Mission Bay) on August 25, 1979 at 10 AM. It will be a bring your own food affair and a family affair.

Because of the Air Force scheduling, the 220 maching will not go on the mountain until the end of July.

The SWAP MEET was discussed. The man from the SANTEE site will come to the next general membership meeting to answer questions. It will be only for hams if we have it on Saturday.

W6GIC was appointed chairman of a committee to revise the Interference Policy. Several people volunteered to participate on the committee.

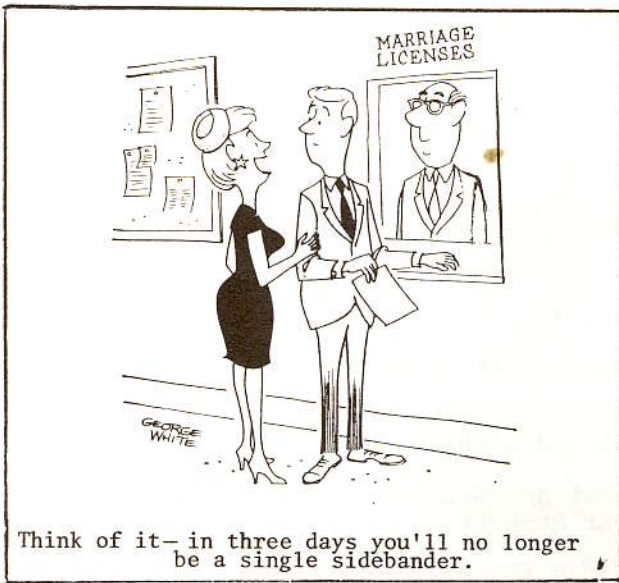
A poll of Board members was taken to see if there are objections to identifying the Control Stations. The majority of the board approved indicating Control members with a C in the roster.

WB6DIT donated a low pass filter for the 220 system on Laguna.

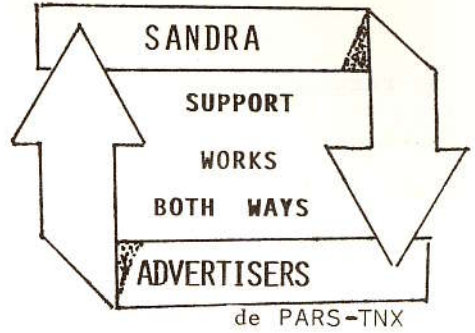
Meeting adjourned at 9:18.

Respectfully,

Sybil Allbright W6GIC
9 Secretary



CREDITS TO FLORIDA SKIP & W6SD CARRIER



SWEEP GENERATOR - BAY STATE
MODEL SG 132 15 - 400 MHZ AM FM CW
SELL OR SWAP
N6AQU
282-8910

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SAN DIEGO, CA. 92140

295-9781



... AINT NOBODY KNOWS THE
ROPES LIKE ME - OR CAN
BEAT ME ON THESE SUPPLIES!

35 AMP P.S.	\$106
20 ✓	75
12 ✓	54
7 ✓	31
4 ✓	33

Thwart the
SDG&E!
with MONTY'S Special
"BROWN-OUT"
INSURANCE
"SAVE-A-FREEZER"
CONSTANT VOLTG
1KW TRANSFMR
Call for details!

MINUTES OF THE GENERAL MEMBERSHIP MEETING
OF SANDRA, INC.

June 20, 1979

The General Membership meeting of June 20, 1979 was called to order at 7:40 PM at the Lion's Clubhouse on University and Utah. The President, Larry Harvey, N6LY presided. Introductions were made.

The minutes of the previous meeting were approved as was the Treasurer's report. There is a balance of \$2,276.09 in our checking account and a balance of \$2,000 in savings.

Announcements were made, and an agenda presented. A motion was made by WA6BXO and seconded by WA6BDW to take up interference first, and to have a special meeting to discuss only that subject in the very near future. It passed.

Larry presented a plaque for service rendered to SANDRA to Ollie and Cliff Kimball. WA6DWR provided the two plaques.

W6QR moved, WA6DWR seconded a motion to keep having meetings every month. The motion passed.

The need for updating the Otay 2 meter repeater was discussed. WA6DWR moved, N6AHJ seconded a motion to purchase a new Micor 2 meter repeater for Otay and to use the present one in another place on the frequency obtained from Lon, W6SLF. The motion passed.

Discussion on the Swap meet was tabled and W6SZX, Gary Fender has been appointed Chairman of the Swap Meet Committee.

KA6BCC moved, WA6OVP seconded a motion to investigate the South Bay swap meet location. The motion carried.

Gale, WB6CYX presented the subject of the aux link which would link either Laguna or Otay to Sharps in emergencies. KA6BCC moved to approve the concept of having the link and KA6FBG seconded it. It carried.

N6AYR presented a need for the Coast Guard to find out more about the dop-scans for use in finding boats. He has set up a meet at 1 PM on Sat. June 23 at the Parking lot at Cabrillo Monument. Those with the Dop-Scans are asked to attend.

KA6BCC moved to adjourn, seconded by WA6OVP. Carried. Adjourned 9:55 PM.

Respectfully,

Sybil Allbright W6GIC
Secretary

CORRECTION

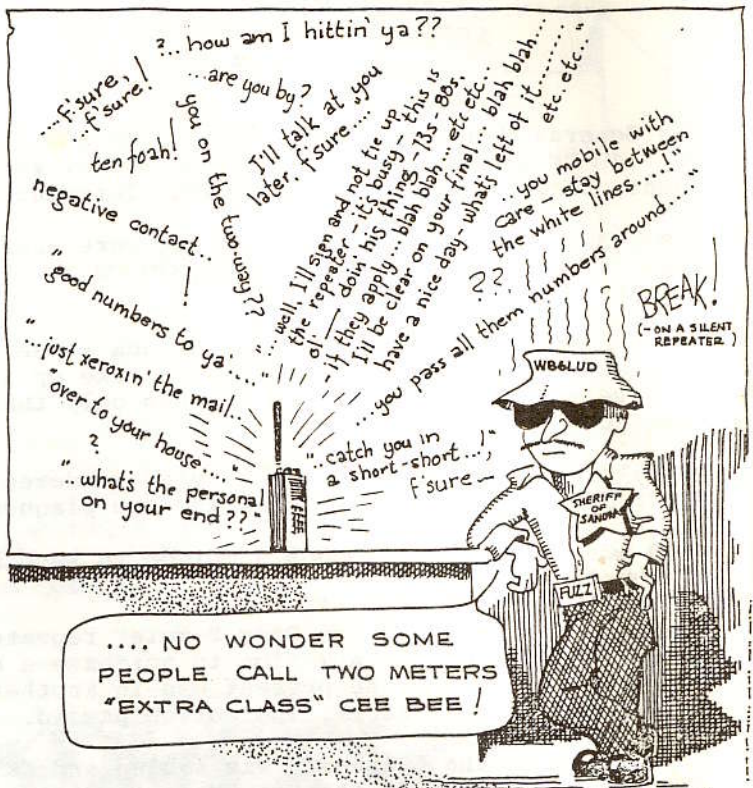
The title at the top of page 7 in the June issue of the newsletter (Squelch Tales) should have been "President's Column, Continued" instead of "Board Minutes, Continued".

MEMBERS

Extra copies of Squelch Tales are being left at several Ham stores for the convenience of any new Hams in the community and for CB enthusiasts who are considering becoming a Ham.

PROGRAMS

Any of you who might know of speakers who would be able to put on an interesting program for one of our meetings please let Dave, N6BSD or Dick, WA6MDD know the particulars.



PLASTIC SIGNS

HAHNE INDUSTRIES
767-3414 767-5625

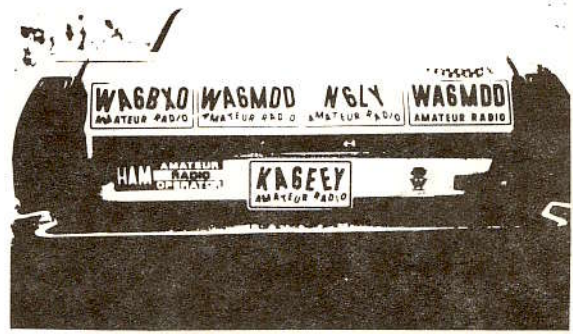
Interior - Novelty - Magnetic

THE PHOTO AT THE RIGHT OF THE POSTERIOR SIDE OF WA6MDD'S VEHICLE ILLUSTRATES HOW THESE SIGNS CAN BE APPLIED!

RECOGNIZE ANYONE?

P. O. Box 64
3169 Borrego Springs Rd.
Borrego Springs, CA 92004

PRICES FOR AMATEUR SIZE:
1 for \$8.00 2 for \$15.00 plus \$1.00 for postage if mailed.



TREASURER'S REPORT
as of 30 June 1979

Balance Forward \$2,276.09

INCOME

Initiation	\$ 200.00	
Dues	521.00	
Badges	17.00	
Squelch Tales	670.55	
Other	169.38	
Donations - \$13.00		
Doppler Scan - \$135.00		
Misc. - \$21.38		
TOTAL INCOME		1,577.93

DISBURSEMENTS

Administration & Supplies	262.83	
Phone Mate - \$182.18		
Taxes - \$35.31		
other - \$45.34		
Rents	124.78	
Squelch Tales	269.28	
Badges (5)	12.60	
Maintenance	35.81	
New Equipment	84.10	
220 - \$19.10		
P.A. System - \$65.00		
Other	155.00	
Doppler Scan - \$125.00		
SANDARC, Dues - \$10.00		
Misc. - \$20.00		
TOTAL DISBURSED		<u>944.40</u>

BALANCE \$2,909.62

Savings Account Balance Forward - \$2,000.00 (No Change)

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This new Amateur Radio Program will help you earn your General Class License

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Don't wait another day to prepare for and pass the FCC General Class Amateur Radio License exam. This program's extra code practice takes you to 15 words per minute code speed (13 WPM is passing). An informative text takes you through exam material step-by-programmed-step. You even take a simulated FCC exam. Besides text and two code practice cassettes, you receive a code practice workbook, a 31" x 41" Amateur Radio world map, a booklet on preventing radio/TV interference, a station log book, a set of FCC Amateur Radio rules and regs, the FCC Form 610 required to apply for your license and an FCC schedule of when and where exams are held. If, after completing the program, you fail to pass the FCC Amateur Radio General Class License exam, Heath Co. will refund your money for the text materials.

ER-3702, Shpg. wt. 26 lbs. 49.95

MONEY-BACK

GUARANTEE ON LICENSE

TO
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New! State-of-the-art Heathkit HX-1681 (QSK) CW Transmitter

CW performance you can count on for QSO after enjoyable QSO

- Full break-in CW operation (QSK)
- Built-in VFO
- Covers 80 through 10 CW
- Rugged 6146 finals

Cut through the QRM with the HX-1681's combination of solid-state technology and vacuum tube finals. This CW transmitter is loaded with the features that Heath engineering is famous for. It's a perfect match for the HR-1680 receiver. You get full break-in operation and built-in solid state TR switching. Plus a sidetone output with adjustable tone arm level and receiver muting. We've even provided keying for easy addition of an external power amplifier. Operation is easy, too. A clean front panel puts everything at your fingertips. Plenty of power out. A pair of rugged 6146s give the HX-1681 a minimum of 100 watts out on 80 through 15 meters and 75 out up on 10. Requires Heathkit Model HP-23C power supply.

Kit HX-1681, Shpg. wt. 16 lbs. 249.95



HX-1681 SPECIFICATIONS: Frequency Coverage (MHz): 3.5-4.0, 7.0-7.5, 14.0-14.5, 21.0-21.5, 28.0-28.5. RF Power Output: 100 watts min. on 80-15 meters, 75 watts min. on 10 meters. Mode of Operation: CW. Harmonic Radiation: 50 dB down at rated output. Spurious Radiation: 60 dB down at rated output. Power Requirements: 700-850 VDC @ 250 mA with max. 1% ripple, 250 VDC @ 50 mA with max. 0.05% ripple, -115 VDC @ 10 mA with 0.5% max. ripple, 12.6 VAC/DC @ 2.5 A. Dimensions: 6.75" H x 12.75" W x 12" D.

LAGUNA RESCUE...SUCCESS!

I would like to take this opportunity to thank the many amateurs that assisted the Sheriff's Search & Rescue team and myself during our recent operation including the rescue of an injured hiker off Mount Laguna. Without such assistance, our operation would have been delayed considerably longer, and quite possibly a life might have been lost.

For those of you who were not aware of this activity, allow me to present a brief explanation of what transpired.

Our Search & Rescue unit was called out at about 7 PM, Saturday, June 30, to rescue a hiker who had fallen and broken a foot. This mission appeared at first to be typical of one of many that we handle each year, and would normally require two or three teams, a minimum of communications, and most likely the use of our ASTREA helicopter for medivac. However, due to a chain of many unusual events and circumstances not anticipated, this mission turned out to be one of the most difficult in our history.

At about the time we arrived at the scene, word came to us that one of the resident deputies had gone into the canyon to render aid to the victim, and he himself became a victim of a snakebite. Our course of action now was changed to rescue the deputy, since time was now of the essence to get him to a hospital. Once that task was completed, we resumed the original mission. The remainder of the night was spent in attempts to actually locate the fall victim - we could attain voice contact once in a while, but being in a canyon area in the dark, echos and directions became very tricky. This particular area has an almost unbelievable density of large rocks and high brush.

Towards the middle of the next day, Sunday, visual contact was made, which then allowed the team to establish firm action. The problem now was how to get to the victim, some 700-800 feet on a ledge below. By this time, the weather began to work against us in the form of high wind gusts and blowing dust. The condition would not permit ASTREA to fly in close enough to air lift. It was now obvious that the task was going to be one of extremely difficult hand carry and rope techniques. You must realize also that in many of these situations it is very difficult to predetermine the terrain conditions - especially when so many rocks and bushes are bigger than you are, blocking vision.

By late afternoon, although the teams had the victim some distance out, it now became obvious that much more physical man-power would be needed, we were running out of time, the victim had a compound foot fracture, was exhausted, in pain, and so forth. Our teams were near the point of exhaustion.

The next course of action was to line up one of the large military choppers in the hope that it could tolerate the winds and air lift the victim. Ironically, the Coast Guard had another mission, and we were unable to obtain Marine Corps use. This now gave us only one option - brute man-power would have to do the job.

At about 5 PM I fired up the two meter rig, switched to the auto-patch, and dialed up the number to call for San Diego Mountain Rescue to request assistance. As luck would have it, my signal was not of good enough quality to get in! Now, suddenly, the whole course of events began to take on a new light - Larry Cox, W6GAIL, who happened to be on monitor duty, broke in to advise me of my signal problem, then offered to patch me through on his unit using the Laguna repeater. I explained to Larry what was going on, although he had been following news accounts, and he took immediate action to assist. Contact was made to put SDMRT into motion as well as to one of our air arm in-town contacts to initiate a new fan-out for our members who may have been missed. From that point on, primarily through the efforts of Larry, we began considerable usage of the two meter system. We established my mobile unit as the Laguna base, while Larry became the town base. Another problem I had, which will soon be corrected, was my lack of having a good simplex channel to use. Larry told me though that I shouldn't worry about using the repeater heavy, as "this is one reason why it exists". I accepted this without question, and figured besides, if we blitz the final, Wayne, W6PDA) would always be there to fix it (hi).

About the time SDMRT became involved, two of their two meter members, Ivan, W6TET and Alex, WB6TYP, joined in to offer radio assistance. We set Ivan up to coordinate with Larry on his end and asked Alex to come up to take over my task - by this time my mind was beginning to get blitzed, or at least sleepy, and I think I put my station QRX rather than QRT or something!

By about 9 PM or so, through ham radio effort, we contacted other teams such as De Anza (involving WB6LAW of El Centro) and the Saddleback unit from Orange County. To my knowledge, all outside assistance requested was on the scene before midnight - we estimate that three or more hours were saved through the use of Ham radio over that required had we had to use "old fashioned" systems. Whether or not this saved a life will never be known, but, it sure reduced the amount of time our victim had to suffer. I bailed out about 11 PM, after Alex re-established the Laguna base, and he was able to set up simplex. We left Larry and Ivan in town to maintain the overnight vigil. And, I believe Dave, WB6DSP, from Campo came on up to the scene to assist Alex. The operation secured at about 10 AM, Monday, with the victim out and away to the hospital. Even though tired and weary, all volunteers were rejoicing.

This entire operation gave me more insight into what a valuable resource the ham community is to an organization such as ours. I have been a ham for a number of years, but never as active as over about the last year. My time is consumed by the Search and Rescue activity. My experience from the other night was really a "first", and for the first time I saw what you people mean when you talk about public service aid. I'm no novice when it comes to working with volunteers, but this new experience now adds to my training and background, having found a fresh source of help to rely upon.

On behalf of our Search & Rescue team, I personally thank each of you who played so vital a part in this operation. I thank the general ham community as well for the excellent cooperation and awareness of our need for the repeater. Although never officially declared as an emergency net, I felt all hams still treated its use as such. I would like to thank in particular, Larry and Alex, who worked so well with us and tolerated my sometimes shaky practice, and to Ivan and Dave for back-up work. I apologize if anyone has been left out of mention. Although I am only a dues paying SANDRA member, I am still proud of being a part of it, and grateful for the opportunity to work with and get to know so many fine people. Many heads were turned and eyes were opened that night by persons who had never seen first hand what ham radio can do to serve them. You can be assured that while we will always try to minimize extended repeater use, we plan to include your communications expertise more often on future missions. Even a simple call home to let one of our wives know when to expect us in means more than you might ever realize. We hope to be able to count on you for service, be it simple and short, to complex and extended. It was my desire to see news coverage about your assistance, but it would appear the media saw things otherwise. You deserve public attention.

Thank you for taking the time to read this, and it would be my pleasure to submit future write-ups on joint operations should you so desire.

Sincerely,

Clif Morris, WA6PWN
Res. Lt. SDSU Search & Rescue

XX

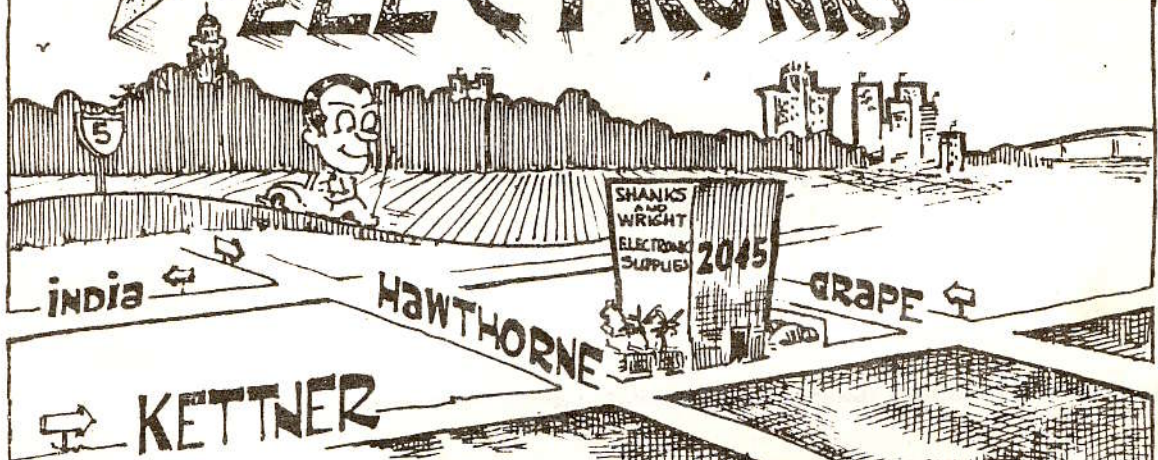
TID-BITS AND SUCH . . .

Sandra's Summer Picnic has been definitely scheduled for August 25th. Be sure to mark your calendar for this date, a Saturday. The starting time is 10:00 o'clock in the morning - come early and meet the folks! We are planning some games for the Junior Ops as well as the OMs, YFs, and YLs. Bring your own snacks or lunch. We may have a common dish such as potato salad or 'bean pot' but this is still in the planning stage. Oh yes, the place! It's to be in the Crown Point picnic area in Mission Bay Park - a lovely place to have a picnic, even if it is a bit far for some of Sandra members who live in El Cajon, Poway, Vista, and other points to the North or East - also South, as we welcome our Mexican members as well! Look in the August issue of Squelch Tales for final details. The August issue is scheduled for mailing early so there should be plenty of time to receive your copy.

A REMINDER The Sharp Autopatch on WR6ASM was designed and build for only the cost of materials to Sandra by Tony, WA6ZMZ; Tony's XYL Mary, WAGNAF: Terry, WA6SSP: and Mike, WA6SJD. This team was assisted by John, WA6QGN: Jack, WB6LUB: and Bob, WA6ZAC. Many, many thanks for this wonderful contribution, Gang - from us all in Sandra!

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Three years ago, at a SANDRA meeting, Amateur Radio was introduced to the California Department of Forestry's RED FLAG ALERT. Presented by Doug Allen, Chief of Fire Prevention for the San Diego Ranger Unit, the program was explained and Amateur Radio participation solicited.

RED FLAG ALERT is a fire prevention measure implemented by CDF during critical fire weather conditions. It involves CDF and citizen patrols of the wildland areas for which CDF is responsible. The wildland areas of San Diego County are divided into ten patrol areas each of which have from four to six patrol routes, for a total of 49 routes.

The objectives of the Red Flag Patrol are: (1) identify and report situations that may cause fires, (2) serve as a deterrent to arsonists, (3) report fires in their incipient stages, and (4) report then extinguish very small fires. Originally organized around CB participation, Red Flag Patrols now include Amateur Radio as well as CB organizations in addition to CDF units. However, since CDF patrols are interrupted whenever fires occur, the bulk of the patrolling is done by the citizens' groups. San Diego ARES is assigned responsibility for seven patrol routes in the southern part of the county and four in the north.

Red Flag Patrols are limited to daylight hours. Each patrol vehicle must be radio equipped and have a minimum of two persons, one to drive, the other to observe. Observers must be equipped with binoculars. Children cannot be carried on patrols nor can anyone carry a weapon on his person or in the vehicle. Patrols cover assigned routes and must remain on public roads. A log is kept of unusual situations, particularly vehicles which appear to have no legitimate business in the area. Immediate reports are made to CDF's Monte Vista headquarters if conditions exist which might cause a fire, such as open fires, camp fires, or off-road vehicles and equipment without spark arrestors. CDF will then dispatch an official to investigate. Red Flag units are often the first to report actual fires thus contributing to a quicker response than might otherwise be possible. Patrol members have no law enforcement powers and are forbidden to make personal contact with citizens while on patrol.

Patrol units are provided with identifying magnetic signs applied to the sides of the vehicles and a small red flag to attach to an antenna. The signs contain the CDF logo and are inscribed "RED FLAG FIRE PATROL."

The current fire season got off to an early start with unseasonably hot, dry, windy weather in the wildland areas of San Diego County, necessitating the calling of a Red Flag Alert for June 8 through 11. During this four-day period 58 Amateur Radio operators manned the eleven patrol routes and a portable 2-meter station at Monte Vista headquarters, with a total of 463 man-hours. Fifteen of them participated two or more days.

SANDRA's Otay repeater (146.06/64) and the Palomar Amateur Radio Club's Palomar Mountain repeater (146.13/73) were used to keep patrols in contact with CDF headquarters, located south of El Cajon. The four northern routes used the Palomar repeater and the southern seven routes used Otay.

CDF officials expect this year to be extremely hazardous with predictions for a very dry summer. This is indicated by a Red Flag Alert so early in the season. Many more are probable throughout the summer and early fall. If this occurs, many volunteers will be needed to cut down on the frequency with which present volunteers might be called. While operators with mobile 2-meter capability are desirable, an equal number without gear are needed as observers.

Volunteers for the Red Flag Patrol should let one of the following know of your availability:

Mike Sullivan, WA6HJJ, via 146.52 net Sunday at 1900; Jim Allen, W6OC (579-7951); Art Smith, W6INI (273-1120); and Lloyd Beauregard, WD6CSS (424-5785). Those in northern San Diego County contact Frank Ramme, WB6HFE (757-9365)



Repairs, etc.*



PICTURE OF FOR SALE ANTENNAS



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TWO METER COAXIAL ANTENNA

The following is an article published by H. J. Staten, AFW3INK, for a low cost MARS coaxial antenna that appeared in the AF MARS Newsletter, (1978).

"I was looking for a simple 2 meter antenna to use on Mars. It had to be cheap. I settled on the use of copper water pipe because all electrical joints can be soldered and because it is no more expensive than aluminum tubing. The parts can be purchased in the plumbing section of the local hardware store for about \$5. Actually, you get enough 3/4 inch pipe to make two antennas; so if you need more than one, the cost per antenna is less than \$4.

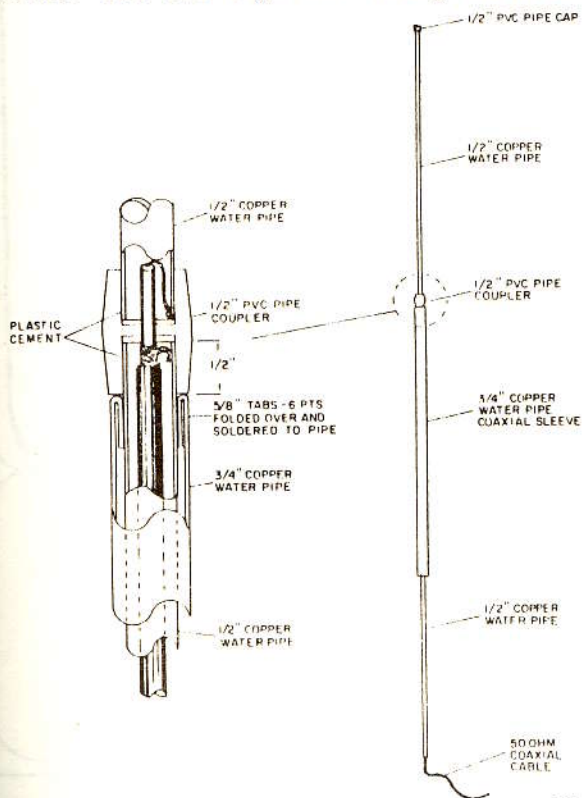
Remember that a coaxial antenna is really a dipole with the feed line run up through one element. Another way of looking at it is that it is a ground plane antenna with the ground plane folded down over the feed line. It is simple, easy to make, and easy to mount. The basic structure is 1/2 inch copper water pipe. The coaxial sleeve is 3/4 inch copper water pipe and the center insulator is a 1/2 inch PVC pipe coupler. In addition, a 1/2 inch PVC pipe cap can be put over the top to keep the rain out.

Assembly of the antenna is simple. First, cut the appropriate length of 1/2 and 3/4 inch pipe, (...19 1/2 inches for amateur FM). Set the short section of 1/2 inch pipe aside. It will be used later. Now cut six slots in one end of the 3/4 inch piece. The slots should be 5/8 inch deep. Fold the tabs between the slots down inside the pipe. Now slide this piece over the longer 1/2 inch piece. Position the 3/4 inch piece so that the end with the folded tabs is 1/2 inch from the end of the 1/2 inch pipe. Solder the two together being careful to keep the two pipes centered. The

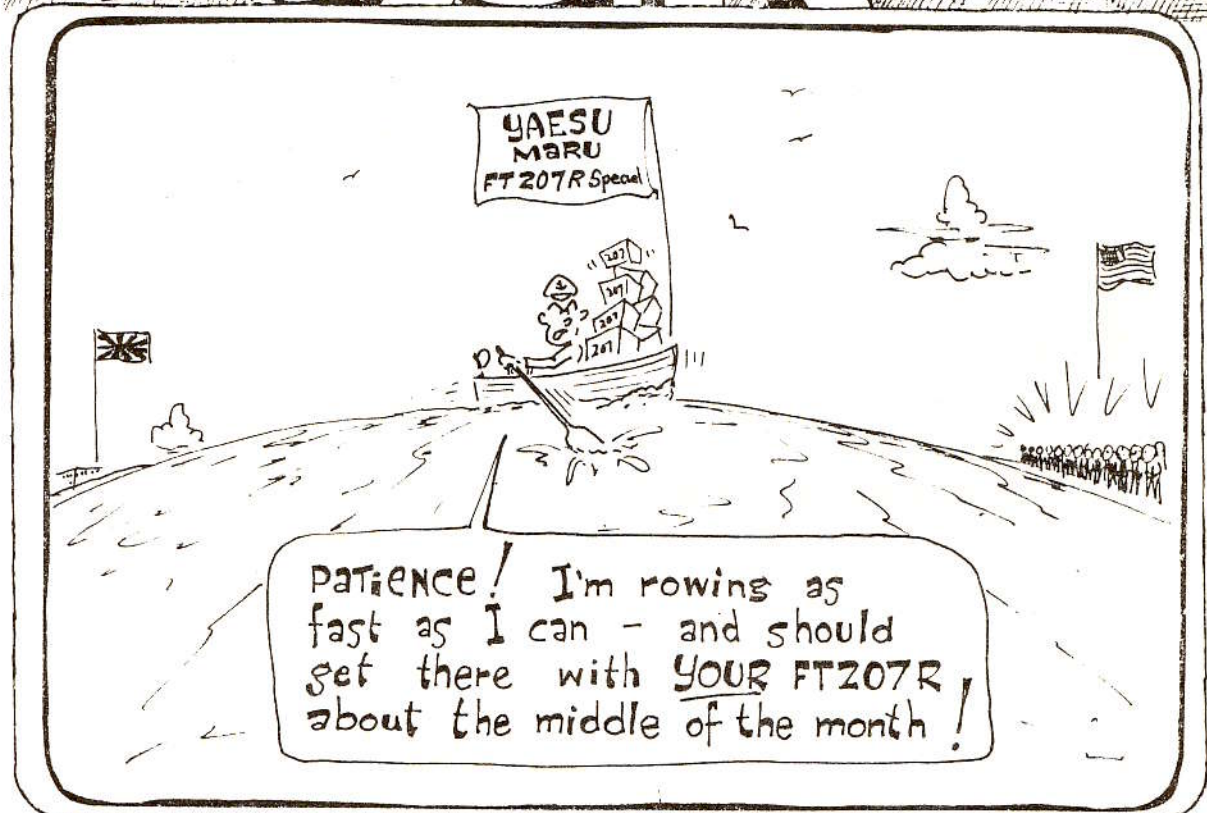
3/4 inch piece is now the coaxial sleeve. It should touch the 1/2 inch piece only where they are soldered. I used a small piece cut off a second PVC coupler as a spacer near the bottom end of the coaxial sleeve, but it did not appear to be required after the solder joint was made.

Now strip about 3/4 inch back of one end of RG58U. Separate the braid from the center conductor. Slide the RG58U up the pipe and solder the shield at the top. Leave enough slack to allow soldering to the top section as described below. Slide the PVC pipe coupler over the end. Now solder the center conductor inside one end of the short section of the 1/2 inch pipe cut off previously. Slide this pipe down into the PVC coupler. The 1/2 PVC pipe cap can now be put over the top end, if desired, to keep rain out. Your antenna is now complete".

CREDITS - ALSO TO THE UNKNOWN BENEFACTOR WHO SENT THIS ARTICLE IN TO US. LY



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OFFICE OF DISASTER PREPAREDNESS AND FIRE SERVICES Radio Amateur Civil Emergency Service

June 22, 1979

1. All Races Radio Operators
2. Amateur Radio Emergency Communications Service
ATTN: Mr. Art Smith, W6INI
3. Amateur Radio Club of El Cajon
- 4. San Diego Repeater Association
5. Palomar Amateur Radio Society

With the possibility of the Sky Lab breaking up and parts landing in areas of San Diego County, the Office of Disaster Preparedness and Fire Services has developed an Emergency Plan.

In this plan, the utilization of the two major Amateur Radio Operators organizations, will be put to use. The Radio Amateur Civil Emergency Service will be expected to back up the official city and county radio networks. Amateur Radio Emergency Communications Service has been requested to activate their RED FLAG ALERT SYSTEM and also furnish additional Radio Operators and Equipment to the Radio Amateur Civil Emergency Service, if needed.

A copy of the Office of Disaster Preparedness & Fire Services Emergency Plan is attached, along with three attachments outlining the Amateur Radio Operators Functions.

We request your support and participation,

73's

Ed Atkins

Ed Atkins, WB6UNB
Communications Coordinator

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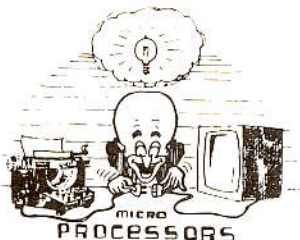
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We had intended to continue with our discussion on the application of the micro-computer to CW and RTTY this month. However, since we are planning on a general membership meeting program with the subject being CW and RTTY operations later this summer, we thought it best to hold the remaining discussion of this topic until that month.

Our topic for this month relates to the use of the microcomputer in contests. As all of you contest devotees know, in almost

any contest, the total score varies directly with the rate of making contacts as well as the total time spent in the contest. Hence, one might well ask, "How can we increase our number of contacts per hour?" One answer could be: "Take out the non-productive time consuming part of contest operations". Well, let's see what microcomputer applications can be used in a CW Sweepstakes contest, as an example:

- I. Elimination of duplicate call-ups and contacts.
- II. Semiautomatic logging of all valid contest contacts.
- III. Automated transmission of own CW for each contact.
- IV. Automated reception of other station's CW.
- V. Application of pre-programmed subroutines for determining:
 - a. Best band versus time of day based on "on-line" analysis of trends in the contest log data.
 - b. Best direction to point beam antennas concurrent with above.
 - c. Priority determination for highest number of ARRL Section multipliers based on on-line analysis of contest-log data and current band occupancy
- VI. For digitally tuned HF transceivers such as the Kenwood TS180S and the ICOM IC-701, provide direct digital control compatibility which can be driven by a microcomputer for direct tuning.

Assuming that the microcomputer is to be used as an adjunct to the home station equipment (and not in direct frequency control as in VI), one may consider programming for minimizing the number of keyboard operations by the use of 'User defined functions'. Now, consider the following illustrative example of the use of the microcomputer in the first four of the applications listed above:

1. Keyboard entry for computer-driven CW transmission of contest CQ, (i.e., "CQ SS de W6XYZ" repeated once or twice).
2. Upon a response, key in the responder's call letters, followed by the entry which activates the 'Duplicate Contact Search' subroutine, (Subroutine 1).
 - a. If the microcomputer finds a match with a previous call entry, it responds with Subroutine 2 by keying up the transmitter with CW, which in effect, says, "Sri, N4XY, u were our 482, ur 186 vy 73 eș gd luck N4XY de W6XYZ, sk".
 - b. If the microcomputer does not find a match it responds with Subroutine 3 by keying CW which transmits the contest message such as "N4XY hr is nr 1013 W6XYZ ck 35 sdgo k"

*Wondering what the numbers are for? Well, that is how I 'flush' the right hand margin.



WESTERN RADIO ELECTRONICS

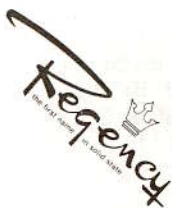
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3. The third stage in the operational sequence branches in the following manner:
 - a. If 2b. occurs and N4XY QSLs your number 1013, Key the microcomputer to 'copy' and record his contest message, monitoring the message as the microcomputer displays it on the monitor. If the message is garbled or incomplete, key in Subroutine 4, which calls for a repeat. If necessary, the option of copying aurally and then keying it into memory can be used.* The microcomputer should complete the log entry by adding own-station's message number as it goes into memory.
 - b. If 2a. occurs, select one of the following options:
 - (1) Revert to Step 1 for another 'CQ'.
 - (2) Call up Subroutine 5 which causes a transmission of "QRZ? de W6XYZ", (repeatable)#.
 - (3) Respond to another stations's CQ by keying in his call, (e.g., KA3YZ) and the entry for Subroutine 6 into the microcomputer for the transmission, (i.e., "KA3YZ de W6XYZ"), again repeatable#. Since release of Subroutine 6 is dependent upon its specific keyboard entry, the microcomputer would execute first to advise if the station to be called, ("KA3YZ"), is a duplicate call. If so, this would appear on the monitor and Subroutine 6 would not be transmitted.
4. During the contest the home station operator would call up on the monitor, a 'scroll' presentation of the contest log to check progress, or if desired, a hard copy printout.

Obviously, there are many variations to the above operational sequence example, depending upon the microcomputer system owned and one's programming expertise. The ability of the microcomputer to interface with the transceiver, expedites both reception and transmission, since much of the 'redundent' information in contest messages is 'handled' by the microcomputer's memory and instant recall.

If, in the operational sequence described above, one does not have the equipment capability to display and initiate CW transmissions by microcomputer it is still advantageous to use the microcomputer as a "scratch pad", duplicate contact 'adviser', and perhaps in addition, some on-the-monitor-only, analyses of the type specified in Application V[¶]. In any event, the use of the microcomputer in contest applications appears to me to be the best 'fun' application of two great hobbies!

Ly

*The human ear has a remarkable ability to receive a desired signal in the midst of a high level background noise and interfering signals.

#Stroking the same subroutine call-up key would cause a repeat CW transmission.

¶A selected part of the ham/microcomputer bibliography pertaining to contest applications appears elsewhere in this issue. [LOOK FOR IT - I DON'T HAVE THE SLIGHTEST NOTION WHERE IT WILL END UP- ED.]

The following are bibliography listings which apply most to your use of microcomputers in amateur radio contests. The "B" list of articles from *73 Magazine* given in the June 1979 issue of *Squelch Tales* should also be consulted as most of the references to the use of CW in sending and receiving would apply.

- C1) Hutton, L. I., "A Ham's Computer"; *73*, December 1976, p. 78.
- C2) Whipple, D., "Let BASIC Control Your Next Contest!"; *73*, May 1977, p. 76.
- C3) Bodson, D., & Fenichel, R., "Aim Your Antenna With a Micro"; *73*, June 1977, p. 108.
- C4) Belcher, G. E., "Try A Micro Contest Logger"; *73*, December 1977, p. 102.
- C5) Stewart, J. F., "At Last! A Use For Your Computer!"; *73*, April 1978, p. 88.
- C6) Zappala, C, "Computerized QSO Records"; *73*, September, 1978, p. 106.
- C7) Leininger, K. D., "A Multi-Memory Morse Machine," *73*, December, 1978, p. 160.
- C8) Thomas, C. E., "Winning the QSO Name Game"; *73*, April, 1979, p. 118.

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[Looking for a nice handheld - here's a dandy! - Ed.]
 Motorola HT 220 Hiband, four channels with accessories, 75/15, 04/64, 885/285, and 52/52 simplex. Asking \$300 for all. Call Mike, WA6NWL at 270-1423.

[The following list of goodies came in just before going to print - there's some good buys here - Ed].

Swan 500C with power supply for 117 v.ac. Shure microphone, MARS oscillator on the side with 10 crystals. Switch goes with it, outboard. Have plugs in back, asking \$400.

Comcraft CTR 144 Tunaboat receiver with VFO, 3 crystals inside/1 outside, 5 crystals available, with microphone - \$300.

Genave GTX 200, two simplex crystals, 3 local including Catalina, Otay, and Laguna. Also a Johnson 125 piggyback CB on Genave. \$150 for the Genave, \$ 20 for the Johnson.

Collins 388/URR (Same as 51J-3 Communication Receiver), Tunes from the broadcast band through citizen band, continuous - \$300.

Call Dan Farrell, now KB6PH, formerly WA6ULG at 224-6166. [Hope I got all the essentials correct, Dan - Ed].

FOR SALE:

TRS-80, 16 K Ram, Level II Microcomputer System. Single chip Basic Level I available for dual Basic I/Basic II conversion. This microcomputer is well trained in ham radio applications. Asking \$875 since it is almost new, original cost \$995+. Also Kenwood TS-520, integral 12 v.dc and 110 v. ac power supply. 75 meters through 10. Relatively low use - condition is excellent, \$475 asking price is about \$50 below Henry Radio. Reason for selling? - made the mistake of playing with an IC-701 digital beauty! Also have a pair of crystals for the Wilson handheld T-1502 for 146.16/76 will let go for a \$5 bill (Treasury kind). Call Larry at 225-8456.

+++++

Has anyone ever noticed how the ~~size of the~~ 'Header' cartoon varies in its size from issue to issue? Well, that's a tricky means I use to fill up a page when the members do not send in enough 'Swap/Sell' ads, or items for other newsletter departments. We hate open page space, when we can't find a 'Tid-bit' or borrow a 'funny' from another newsletter. - Ed.



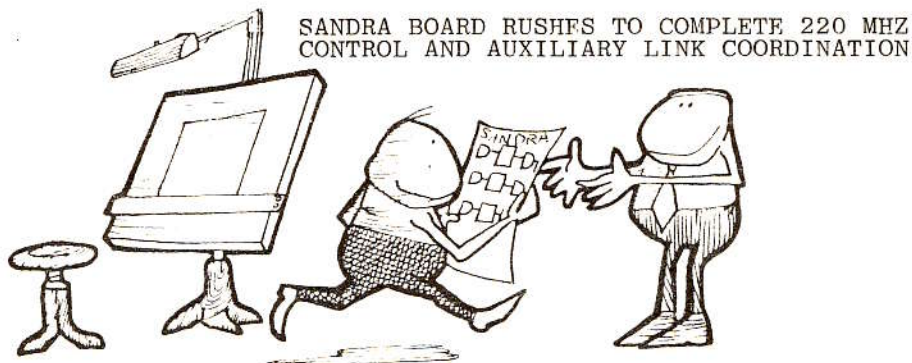
The 'Welcome Mat' is hereby extended to the following hams who are joining Sandra for the first time, and to all of those who may be rejoining after a period of absence. We, on the Board of Directors, speaking for all the gang, hope you enjoy the use of the repeaters, autopatch, and other Sandra sponsored activities.

KA6AGA	Howard	Merrill	13254 Poway Hills Dr.	Poway	92064	748-8161	1280A
WD6AOR	Johannes W.	Landmark	2641 Palace Drive	San Diego	92123	292-9243	0680A
N6AYR	Pat W.	Greenlee	P.O.BOX 6045	San Diego	92106		0680
N6BBN	Dale A.	Preston	1434 Wake Road	Coronado	92118	437-4546	0680
N6BIR	John A.	Stokes	8150 Jefferson Street	Lemon Grove	92045	Unlisted	0680
N6BIX	Eugene A.	Turchetta	1565-180 Mendocino Dr.	Chula Vista	92011	421-0978	0680
N6BSD	Dave	Olson	4419 Donald Avenue	San Diego	92117	273-9433	0680
WB6DPO	Don	Grant	9230 Wister Drive	La Mesa	92041	465-0929	0680A
KA6AEH	Arline	*Sazbo	P.O.BOX 1304	Borrego Spgs	92004	767-5292	0280
WA6HAH	Tim	Tison	4151 Vista Grande Dr.	San Diego	92115	287-1375	0680
W6JEL	Donald R.	Schulke	BOX 45A,	San Ysidro	92073	428-2934	0680A
WA6JMN	Elton C.	Johnson	10516 Pinehurst Ave.	Southgate	90280	Unlisted	0680Ltd
WA6LUP	Mack D.	Nixon	832 Escuela Street	San Diego	92102	262-1639	0680
WB6PPS	George	Miramontes	8817 Alphecca Way	San Diego	92126	Unlisted	0680
WA6PPG	Carl D.	Ferree	5787 College Ave. #36	Sin Diego	92120	287-2869	0680
WB6PFL	Al	Shorte	9330 Westhill Road	Lakeside	92040	443-6013	0680
K4SET	James H.	Crouse, Jr.	674-1st St., Apt D	Imperial Bch	92032	424-9572	0680A
WA1SEY	Mark A.	Allyn	4045 8th Ave. Apt. E	San Diego	92103	291-0578	0680A
N6YX	Bob	Bell	1926 Alexander Drive	Escondido	92025	745-3722	0980A

New Members - If you do not find your station listed above and you have just recently joined Sandra it is probably because there has not yet been enough time for recording and routing between the Membership Committee, the Treasurer, and the Squelch Tales Staff. All applicants become members of record as soon as application is received and posted by the Membership Chairman. Your listing should appear in the next issue of Squelch Tales.

HERE IS ANOTHER 'BIT' FOR THE TID-BITS . . .

Ye editor got lazy and neglected to retype pages 25 and 27 as would have been necessary for the right margin to be lined up evenly as in other articles since besides being lazy, we thought it might also be of interest to show off the half space feature of this Selectric II, (i.e., [-] is a full character space between the brackets and [-] is a half space between the two brackets. Distributing these extra half spaces throughout the line makes them scarcely noticeable.



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WB6CYX	Gale McGuffy	292-8550

TRUSTEES

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WR6AJL - Laguna	Wayne Bamford (W6PDA)
WR6ASM - Sharp	Dave Fender (K6QL)

SANDRA NETS

Sunday Evening at 8:00 PM on 04/64
 Monday Evening at 8:00 PM on alternate weeks with 04/64 & 75/15 "Board-on-the-Air" nite (Schedule announced)
 Wednesday Evening at 7:30 PM on 75/15
 Thursday Evening at 9:00 PM following the 3rd Wednesday of the month on 04/64 "Computer Roundtable"

SANDRA REPEATERS

WR6ACF	Otay	146.040	146.640
		222.600	224.200
		*444.500	449.500
		*1-BPL REED	
WR6AJL	Laguna	147.750	147.150
		222.460	224.060
WR6ASM	#Sharp	147.885	147.285
	#SHARP HOSPITAL, SAN DIEGO		

INFORMATION & INTERFERENCE REPORTING

Call 286-8550

AUTOPATCH:

EFFECTIVE MAY 20, 1979

ACCESS 37*

CLEAR 37#

SQUELCH TALES

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GUIDELINES

SANDRA, Inc., operates the above repeaters for service to the San Diego area and environs. The policy of the organization is that the repeaters are available for all licensed Amateurs to use, so long as applicable rules and regulations are observed, whether members of SANDRA, Inc., or not. Further, the following priorities must be observed:

1. Emergency traffic concerning the safety of life or property take priority over all other traffic.

Failure to yield to any station indicating the need for such traffic is prohibited, and may render the offender subject to legal action. Indication of the need for such traffic may be "Break Emergency", "Break-Break", or any other clearly indicated emergency statement.

2. Call-ups should be permitted over low-priority traffic.

If an operator "breaks" into a routine conversation, he should be immediately permitted to make such a call-up. He should not, however, "take over" the repeater and exclude those who were already using it. Breakers should return the repeater to the existing QSO.

3. "Rag-chewing" is not prohibited, but care must be exercised to assure the repeater is not tied up for extended periods.

Remember, there are almost 600 members and several hundred non-members, who have as much right to use the facilities as you do. Long QSO's should be limited to simplex frequencies on the lower bands. Keep transmissions and QSO's short during busy traffic hours and during adverse traffic conditions.

4. Ignore completely all jammers and willful interference on any of the repeaters.

Comments made to or about the jammer or jamming should not be made. Talk around or through the jamming without identifying it as such. QSY or use other modes of communication when possible if the substance of your communications is critical.

SANDRA, Inc.

San Diego Repeater Association

P. O. Box 81103

San Diego, CA 92138



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Coming Events . . .

- JULY 18 GENERAL MEMBERSHIP MEETING AT THE NORTH PARK (LION'S) CLUB HOUSE, 3927 UTAH AT UNIVERSITY - 7:30 PM.
- JULY 21 TRANSMITTER HUNT ON 146.76 MHZ. STARTS at 7:30 PM SHARP AT THE TOP OF DEL CERRO. SCHEDULED TO BE AN EXCELLENT HUNT FOR OLD TIMERS AND NEWCOMERS. BRING YOUR OWN SNACKS AND DRINKS. K6DYD WILL BE HIDING.
- JULY 26 SANDARC MEETING - 3650 FIFTH AVENUE AT 7:30 PM, (AMERICAN RED CROSS BLDG.).
- AUGUST 2 BOARD OF DIRECTORS MEETING - BONANZA RESTAURANT, 7:30 PM, 2633 EL CAJON BLVD
- EVERY SATURDAY - BREAKFAST MEETS AT BOB'S BIG BOY, 9035 CLAIREMONT MESA BLVD., AND ALSO AT COCO'S, 5505 LAKE MURRAY BLVD., 9 AM.

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