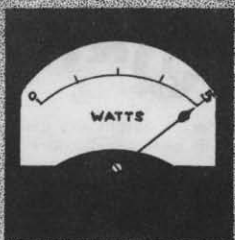


# QRP QUARTERLY



THE PRESIDENT'S CORNER  
by Ed Popp, K5BOT  
Vice-President, QRP ARCI

As Thom Davis (K8IF) commented in the last issue of the Quarterly, we need to get on the air more often. The list of times and frequencies that was published should help toward that goal.

We also need to "spread the word", so to speak. We should show that QRP works not only for contests and special events, but at other times as well. One way that I see to "spread the word" is by example.

My intention is to show that QRP works in normal everyday activities. As for myself, I use what I call the "Biblical" method. Remember David and Goliath? David is the QRP station and Goliath is QRO.

To start, I prow the band, any band, looking for a strong station calling CQ or one that I would like to talk to. When the time comes, I call him making no mention that I am QRP. If all goes well, we start into a normal QSO. Sometimes he might state that I am a little weak but no problems copying.

When we get to that part of the QSO about rigs, I state the type of rig, power without saying that I am QRP, and antenna.

Most of the time, you guessed it, he won't believe that you are QRP and will want to know more. All of a sudden, you have a great signal for low power and they usually say so. Just like fishing, you have hooked one.

It is also surprising how many have QRP rigs collecting dust and have asked me to stand by while they fire up their rig. The QSO continues and becomes very enjoyable. Others have turned down the power to the point where they have no indication that they are getting out and we still have a QSO.

Of course there have been a few that have gotten a little bent out of shape and the QSO ended faster than it started.

A friend of mine called a station on 80 meter sideband. When he told him that he was QRP, the other station gave him a list of reasons why QRP did not work. For some reason, he couldn't accept the fact that he was in QSO with a QRP station.

There have been times that the band seemed hot. This is when I find a clear spot, call CQ again with no mention of being QRP. The return is low but not knowing who will answer adds to the fun. When I get an answer, I follow the

procedure above. As a rule, another enjoyable QSO.

I use the Biblical method when I stray from the QRP frequencies. The best bands have been 20, 15, and 10 meters. I have also had success on 40 and 80 meters, but the rates are much better on the higher bands.

The surprising fact is the number of QRPers that I have run across using this method. Some have been members of the QRP ARCI while others did not know of its existence. Two of those hams were QRP not because they enjoyed low power, but because they were Solar Powered.

I do monitor the QRP frequencies and try to answer any QRP stations that I hear. I have also been known to call CQ/QRP to see if any others are around.

One of the better places to make contacts is in the novice band around their QRP frequencies. Let's not forget these fellows either. They are as eager to make QRP contacts and seem to have more patience and tenacity than many in the general portion of the bands.

Single sideband is a bit harder mainly because of QRM but there are many enjoyable QSOs and many interested hams. Just look on 10 meters and all those hams with converted CB sets.

73, Ed Popp, K5BOT

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PLEASE INCLUDE QRP# ON CHECK OR MONEY ORDER WHEN RENEWING YOUR MEMBERSHIP



QRP Quarterly is the official journal of the QRP Amateur Radio Club, International, Inc., and is published four times a year: January, April, July, and October. The QRP ARCI is a non-profit amateur radio organization dedicated to increasing world-wide enjoyment of QRP operation and experimentation (QRP, as defined by the club, is 5 watts output CW, 10 watts output PEP). Members agree to voluntarily limit their transmitter power to 50

watts output CW, 100 watts output PEP, except for public service work, where higher power may be necessary. Current club membership is 8009, QRP Quarterly circulation is 633.

Initial membership fee of \$6.00 (\$7.00 for DX applicants) covers lifetime membership plus first four issues of the QRP Quarterly. Membership information is available from the secretary/treasurer (see roster below). Subscription renewals are \$5.00 (\$6.00 for DX subscribers) for four issues. Expiration notice appears in red (rubber stamped) on the mailing cover of final issue. Expiration date also appears on mailing label, following QRP number: i.e. 4174-4/81 means member 4174's subscription expires with October issue, 1981 (or fourth quarter, 1981). Renewals must be received by secretary/treasurer by the 15th day of the month prior to month of publication for continuous service. Otherwise, renewal begins with the next issue. Send renewal notices, changes in call, or address changes to the secretary/treasurer (see roster below). PLEASE MAKE ALL CHECKS OR MONEY ORDERS PAYABLE TO: QRP Amateur Radio Club International, Inc. PLEASE DO NOT SEND CASH. New members will receive first issue following receipt of their application provided it is received at least 15 days prior to month of publication. Otherwise, their subscription begins with the next issue. Please include QRP# and Call on Checks and M.O.s.

Letters to the editor are welcome. Not every letter can be published, and the editor reserves the right to edit letters to conform to space limitations. Those desiring a response from the editor, officers, and directors should enclose a SASE with their letter. Construction projects or articles of general interest are always welcome. Manuscripts should be typed, double spaced, and all circuit diagrams should be clear and include all parts values. The editor and club are not responsible for testing projects that appear in this publication. Please include name, call, and phone number on all manuscripts and mail to the editor.

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Renewal ( ) for \_\_\_\_\_ yr(s). Change of address ( ) Change of call ( ).

Amount enclosed \$ \_\_\_\_\_ QRP ARCI number \_\_\_\_\_ Call Sign \_\_\_\_\_

Name \_\_\_\_\_ New Call (If applicable) \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip \_\_\_\_\_

Country (If DX subscription) \_\_\_\_\_

THE EDITOR'S SOAPBOX  
by Terry M. Gregg, KA5EXI  
QRP QUARTERLY Editor

It's that time again to talk to you, the reader. A few people read the Soapbox in the last issue. Comments I received were favorable. My thanks to those who wrote and, to those who didn't write, I know the spirit is there.

Our appeal for articles proved beneficial. I have tried to include one insertion from each individual. This is everyone's quarterly, so let's have 'em: Old Timers, Novices and Extras, XYLs and YLs alike. We miss the regulars, but hope they are only charging up for the next set of articles to come here.

As predicted, the first issue came out with some battlescars. During an academic 35 day stay in Austin, in January, Fred, W5QJM gave me some constructive comments to implement. All were openly received and hope they all help out, though not all at one time. The major mistake was to the DXers. My apologies to them and this issue should be in your hands "somewhat" quicker.

Thom Davis' "MEX" located elsewhere in this issue should prove to be a time saver for news briefs on the club. As soon as the bugs are out of the Heath Iambic Keyer, the mail may be "picked" up a bit quicker.

Here is a simple case of "do as I say, not as I do". My first exposure to net operations has been a couple of QNI with the GSN. One averaging every 4 months or so. Night classes at a local college nails one foot to the floor. Everyone is strongly encouraged to check into one at least monthly, if not more frequently. If there is any doubt about the Q signals used, check with an Operating Manual or other publication. Speed too fast? I'm sure the speed could be slowed down. Join in and be counted! Keep QRP alive!!

Don Bajorek, KA3ENX, editor of Radio Association of Erie, Pa. forwarded a copy with some information on meteor scatter for those sky watchers. The International Union of Radio Science has made a calendar of meteoric activity for the Northern Hemisphere. Predictions are as follows: 21-23 April, 3-6 May, 8-12 and 23-24 June, 27-30 July, 11-15 August, 20-23 Oct, 2-3 Nov, 13-15 and 22-23 Dec. -- Nittany ARC.. Pa. Any buffs out there want to give a shot, let us know what the outcome might be, if any.

Dean Barber in California came through on the request for the unknown artist. He's forwarded some very good samples and has stepped in to work with the QRP Quarterly. You'll be seeing some of his work in the next issue.

After July, my QTH will be changed to Grand Forks Air Force Base, North Dakota. The move will only delay some mail, but the Quarterly will still hit the streets on schedule. Anyone knowing a printer in the Grand Forks area, please let me know so I can be seeing where I will need to get the printing done, here or there.

Some notes before closing. Please be sure to contact us immediately upon your changing mailing address and the post office. We've got some returned copies due to no forwarding

FROM THE SECRETARY'S BLOTTER  
by Edwin R. Lappi - WD4LOO  
QRP ARCI Secretary/Treasurer

A reminder that all renewals for subscriptions to the Quarterly must now be sent to the Secretary/Treasurer, WD4LOO and include your call and QRP number, preferably on the check. Also I have been getting inquiries concerning expiration of subscriptions to the Quarterly. Please read my January column for explanation of the expiration info on your label.

If you write to me with questions which require a reply include an SASE. I have been receiving too many questions concerning your subscriptions, etc., without one. In the future I can no longer respond to inquiries without your inclusion of this small item. Forewarned is forearmed.

At the end of this Quarterly you will find profiles of candidates running for one vacant seat on the Board of Directors and a ballot. Please read these profiles carefully and mark your ballot, or a reasonable facsimile of it, and return it to me to arrive no later than May 15, 1982.

Elsewhere in this Quarterly you will find a picture and short profile of the club's 5000th member, PY8ZLC. I believe you will find Fred an interesting member. Try to work him and make him welcome to the club.

In the last issue of the Quarterly your Prexi KE1F, suggested times/freqs for trying to establish a QRP contact. Let us continue to support this suggestion to promote greater QRP activity by devoting at least 30 minutes a couple of weeknights and maybe an hour on weekends.

For you Novices/Technicians out there, I have suggested to the Board of Directors that the club establish a special NOVICE/TECHNICIAN DX AWARD for you only. If you like the idea, drop a note/postcard to one or more of the Directors/Officers so they will know of your interest.

I would like to remind each member to drop me a note whenever you have a change of address or change in call sign after an upgrade.

In October it will be time once again to vote on the other half of the Board of Directors. The following Directors, WA3ZBJ, WD4LOO, K6JSS, K7LNS, WA8CNN, and KA00 terms of office expire December 31, 1982. One of the above directors, KA00 has already indicated that he will not stand for re-election. Thus it is not too early for you to start thinking of possible nominees for these six seats on the board. I feel sure that some or most of the above members will stand for re-election. But if you know of a good candidate willing to serve, please let me know about him/her so I can request a profile as early as possible. The more candidates we have the more selection you as members have. Please do not wait until time has run out. Send me your nominations right now.

73, Ed.  
CQ QRP

Do you need only one or two numbers for QRP 25? How many states are you missing for WAS? Check into a net, QSO Party, or a contest. You may just be able to get them. Ek in es say Hi!

## MEMBERSHIP DRIVE CONTINUES

by Fred Bonavita, W5QJM

Some five dozen new members have joined QRP ARCI in the past six months thanks largely to an advertising campaign now entering its second phase.

More than 200 responses were received to ads the club ran in the classified section of CQ magazine for six months, which ended with the February 1982 issue. Our ads began immediately in the March issue of QST. It is too soon, at this writing to compare results, however.

As was noted in the last issue of the Quarterly, the ratio of new members to inquiries is roughly one in three. That return, according to a friend in the advertising business, is very healthy. And even though the others opted not to join, they now know more about QRP in general and QRP ARCI in particular than before they wrote. This cannot help but aid our efforts in the long run.

Witness the fact, reported elsewhere in this issue, that our membership total has passed the 5,000 mark.

Responses to the ads in CQ came primarily from the continental United States, with Canada second and Europe trailing a distant third. This is not to say Europeans were not enthusiastic about QRP. Those who wrote were very enthusiastic.

Take, for example, a letter from Bob Berge, ON4QX, of Antwerp, Belgium. An avid DXer with 355 countries worked and 318 confirmed, Bob said he was getting a little bored, since about the only rare country left for him was China (BY).

"I decided to do something with a manual key", Bob wrote. "I heard about QRP and purchased an Argonaut. If they had told me before that QRP was also (for) DX, I would not have believed it.

"But since 1 October 1981, until today (Jan 10, 1982) and to my surprise, I have worked on CW 81 countries. So I sold my complete station of four Yaesu and a linear and started QRP. What a thrill and fun."

And so it goes. Others wrote to say they had seen the ads and were renewing their lapsed memberships.

About the most intriguing inquiry came from Harvey Epton in Moncton, New Brunswick, Canada. His call...VE1QRP.

— C Q Q R P —

### QRP ARCI GREETES ITS 5000TH MEMBER

The QRP Amateur Radio Club International welcomes its 5000th member with a special greeting. No, this member is no more or less important than any of the other 4,999 members, but rather the special greeting is to blow our own horn on the growth of QRP ARCI. We, the officers and Board of Directors, are proud of the club's progress and accomplishments over the past 20 plus years.

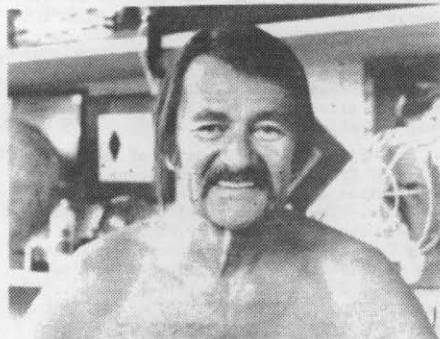
Now to member number 5,000. PY8ZLC is his call and his name is Fred Coates. He also

holds K4LC and has been licensed for 51 years. His QTH is Fazenda Nazareth on Marajo Island which is the largest island in South America and is located in the mouth of the Amazon River.

With no commercial services whatever, Fred has to provide his own power and has a 4 KVA and a 10 KVA diesel engine generator each plus a welding machine which uses gasoline costing as much as \$3.91 a gallon, so the welding machine is used for welding.

Anytime Fred wants to get on the air, he has to go outside to the warehouse, crank up a generator, adjust the voltage and cycle, return to the house where his shack is, warm up the gear and go on the air. Shutting down is the same garbage all over again, in reverse.

One day, he got an idea, why not go QRP, operate off a battery and then he could go on the air anytime he wanted to without going through the whole rigamarole? Besides, there would be no use to crank up a bunch of KVAs just for the need of less than half an ampere at 12 volts. That's more than 100 hours of key down time from a small 50 ampere-hour battery or well over 300 operating hours at 10% of time transmitting. Another large benefit was that operating could be done at night anytime or while the siesta hour was going on without fear of waking his XYL up with the noisy engine, thus obviating the reason for sly remarks about noise pollution from his XYL. Now the urge to operate did not have to overcome the inertia of turning on the generator.



So Fred went QRP and finds the mode quite satisfactory. Almost like old times back when he first started, as then almost everyone was QRP, but the stations were few and far between with no QRM problems. He has an HW-8 and has no trouble working most any station, but notes that certain conditions are better than others, like don't go on the air when band is heavy with QRM and high activity. This says that week days are better than weekends, generally speaking. Fred states that almost every contact for him is a DX contact. The large majority of QSOs are outside of Brazil, the nearest country being 600 miles distant and at that very little activity from the nearby areas. Right now, he has 31 countries, which include WAC and 24 states, which is not outstanding, but which were worked in about 40 hours of operating time. Total contacts are about 200.

(Continued on Page 7)



# QRP CONTESTS



**QRP CONTESTS**  
by William W. Dickerson - WA2JOC  
QRP ARCI Contest Chairman

I hope that all of you are ready for our second annual SSB QSO Party to be held the weekend of April 18. Rules were included in the last issue of the QRP Quarterly. At press time I was in the process of relocating back in Pennsylvania. So, if you have attempted to correspond, be patient as my family is still in Michigan and my mail is going there...

The following are some upcoming events of interest to the QRP community:

- April 17-18: QRP ARCI April SSB QSO Party.  
Rules in January, 1982 QRP Quarterly.
- April 18: RSGB Low Power Contest.
- May 16: RSGB RR CW contest with QRP section.
- May 29-30: CQ WFX Contest with QRP section.
- July 17-18: World QRP Federation QRP Contest.
- Sept 11-12: G-QRP-C Activity CW Weekend.
- Oct 10: RSGB 21 Mhz CW Contest with QRP Section.
- Oct 16-17: QRP ARCI Fall Code QSO Party.
- Oct 30-31: CQ WW SSB Contest with QRP Section.
- Nov 14: G-QRP-C/QRP ARCI Combined Activity Weekend.
- Nov 27-28: CQ WW CW Contest with QRP Section.
- Dec 26-31: G-QRP-C Annual QRP Winter Sports.

Here is the QRP ARCI monthly informal QSO Party plan. Informals are held on the first Sunday of each month: April 4, May 2, June 6, July 4, for this quarter. Try SSB on the half-hour. All times are in UTC:

- 80 M. 0100 - 0300  
40 M. 1500 - 1600, 1900 - 2000, 2300 - 0000  
20 M. 1600 - 1700, 2000 - 2100, 0001 - 0100  
15 M. 1700 - 1800, 2100 - 2200  
10 M. 1800 - 1900, 2200 - 2300.

Lets welcome the following new members when you hear them on the air.

- K3FKW, Kenneth Marinoff, #4881  
WD4DNG, Lloyd L. Adams, #4882  
N2CNI, Olof Jansson, #4883  
K7CZY, A. N. Huntley, #4893  
N8BZK, Joseph Curran, #4894  
N5AE, Richard H. Reimund, #4895  
WN9GEV, Howard L. Bacon III, #4896  
KC0DD, James D. Davidson, #4897  
W1KX, William C. Mann, Sr., #4898  
WA2SXF, Robert A. Meeker, #4899  
WA2ZLA, Fredric Weiss, #4900  
WA4QFJ, Michael W. Zulli, #4901  
N4FLC, Felix E. Stewart, Sr., #4902  
KA6RGC, Lawrence C. Wilson, #4903  
KM5C, George S. Black, #4904

## Official Announcement

The Milliwatt FD Trophy--Expanded Program  
by Ade Weiss, WØRSP

The Milliwatt Field Day Trophy Award was initiated back in 1970 by The Milliwatt: National Journal of QRP to encourage QRP operators to go out into the field and participate in the ARRL FD, and to provide them with a special form of recognition in the QRP world in addition to results published in QST. With the tremendous increase in QRP activity, the two American QRP (under-five watts output) organizations, The QRP Amateur Radio Club International (QRP ARCI) and the Michigan QRP Club, have added their support to the Milliwatt program by sponsoring two new categories and an expanded awards offering. Participants in the ARRL FD can now compete in three categories: 1) The Milliwatt FD Trophy, for 2 operator/1 transmitter class, under-five watts r.f. output; 2) The One Watt FD Trophy, for 2 operator/1 transmitter, under-one watt r.f. output; and 3) the QRP FD - Club Plaque, for groups exceeding the 2 operator/1 transmitter limit, under-five watts r.f. output. In addition, certificates will be awarded to 2nd-4th places in each category (provided a minimum of 10 entries are submitted in that category).

Scoring: QSO's X PWR MULT (5 watts - X4, 1 watt - X8) X 1.5 EMRG PWR (battery, solar, wind, etc.) + 150 for full portable installation.

Entry: Duplicate (Xerox, etc) of ARRL FD entry or similar (summary sheet showing breakdown of QSOs by band, power used, type of power source, whether full portable or Class 1E, checklist of stations by band or log copy). By August 31, 1982, to: Ade Weiss, WØRSP, 83 Suburban Estates, Vermillion, SD 57069. Results direct (include SASE) or see QRP ARCI or MI QRP C newsletters, or QRP Column, CQ Magazine.

- K4JXX, Lindsey H. Jeter, #4905  
WA4VWG, Joseph L. Vesey, #4906  
W8SFK, Robert L. Scott, #4907  
WD8IJR, Patrick T. Hall, #4908  
WA4SFP, Stanley Lieberman, #4909  
N9CFZ, James F. Kovarik, #4910  
WN8GUE, Steven M. Wheatley, #4911  
KA2KOA, Charles E. Whiting, #4912  
KD6VR, Terrance Fitzwater, #4913  
N5EM, Edward F. Manuel, Jr., #4914  
WB1GMH, John T. Fellows, #4915  
WA2TBV, Helmut R. Usbeck, #4916  
KB5SU, John R. Thompson, #4917  
KB6WF, James E. Dreiling, #4918  
KA0KRT, Terry A. Ward, #4919  
KR2S, William T. Morris, #4920  
WB6DYE, Mike Camp, #4921  
W6MUL, John S. Forchtner, #4922  
WA40ID, Robert Capozzi, #4923  
KA3DUF, Loren W. Parker, #4924  
KA4WWP, James J. Brennan, #4925  
(Continued on page 13)

QRP ARCI AWARDS SUMMARY SHEET

K4AHK

U.S.A.

CALL	DATE	BASIC	ENDORS. - MILES/WATT - NOTES	POWER	MODE	BAND
N5CLD	12- 6-81		50 STATE SEAL			
WB9ZDN	12- 6-81	163c	ONE MODE	2.5	CW	MIX
WB9HFY	12-15-81		50 STATE SEAL		CW	20M
K1EQA/6	12-20-81	164c	50 STATES	5.0	MIX	MIX
KD6CQ	12-20-81	165c	23 STATES	2.8	CW	40M
W4VC	12-29-81	166c	50 STATES	5.0	SSB	6M
K05YY	12-29-81	167c	20 STATES	MIX	MIX	MIX
AD2Y	1-25-82	168c	50 STATES	2.0	MIX	MIX
W2JEK	1-25-82	169c	50 STATES	2.0	CW	MIX
KA1MF	1-30-82		40 STATE SEAL	2.0	CW	MIX
WB8BHJ	1-30-82		50 STATE SEAL	3.0	CW	MIX
WB4RRA	1-30-82	170c	50 STATES	3.0	MIX	MIX
<u>U.S.A.</u>						
W6RCP	12- 6-81	404c	One Mode	2.0	CW	MIX
* K8IF	12- 6-81	405c	One Mode, One Band	3.0	CW	40M
KC4MK	12-20-81	406c	One Mode, One Band	2.5	CW	15M
KA4FJD	12-20-81	407c	One Mode, One Band	2.5	CW	15M
WB9VGJ	1-30-82	408c	One Mode, One Band	5.0	SSB	10M
WB9WOM	2-13-82	409c	One Mode	2.0	CW	MIX
WB8BHJ	2-13-82	410c	One Mode, One Band	1.5	CW	15M
WB8CTC	2-14-82	411c	One Mode	2.0	SSB	MIX
DK8DB	2-14-82	412c	One Mode, One Band	5.0	SSE	10M
WB6UNH	2-27-82	413c	One Mode	.25	SSB	MIX
WA2SXF	2-27-82	414c	One Mode, One Band	2.0	SSB	10M
<u>NET</u>						
K4AHK	1-16-82	#3	TCN			
E5BOT	1-30-82	#4	GSN, TCN			
K8IF	1-30-82		Seals for TCN, GIN - 80			
WA9WZV/4	2-10-82	#5	TCN			
K2TKS	2-23-82	#6	TCN			
KC4ZA	2-23-82	#7	NET			
<u>DXCC</u>						
W8SIDD	12-23-81	#20	One Band, One Mode	5.0	SSB	10M
<u>QRP-25</u>						
WB3KQZ	12- 6-81	940	25 Members			
KA3CZI	12-14-81		50 Member Seal #504			
WA1YLN	12-29-81	941	50 Member Seal #505			
N15CP	1-30-82	942	25 Members			
WB2IIX	1-30-82	943	25 Members			

CALL	DATE	BASIC	KM/W		POWER	MODE	BAND
			ENDORS.	- MILES/WATT - NOTES			
WB9ZDN	12- 6-81	681	To ZS2RM	5,151 M/W	2.0	CW 544	15M 229
NOCTW	12-14-81	682	To KA1GFG	1,000 M/W	1.0	CW 545	15M 230
VK1BB	12-14-81	683	To JK1IZF	1,643 M/W	3.0	CW 546	15M 231
KAOBLE	12-14-81	684	To VK2NEC	1,070 M/W	9.0	SSB 95	15M 232
KC4HX	12-20-81	685	To WA6TAF	2,175 M/W	1.0	CW 547	20M 175
HB9BOW	12-20-81	686	To PA0DST	19,500 M/W	.02	CW 548	20M 176
AE5V	12-20-81	687	To SM5CMP	2,463 M/W	2.0	CW 549	20M 177
KD60Q	12-20-81	689	To ZL2UW	2,322 M/W	2.8	CW 550	40M 127
KB2ZQ	12-20-81	690	To WB3GFR/6	1,300 M/W	2.0	SSB 96	10M 110
KB1W	12-21-81	691	To DL9CQ	1,302 M/W	3.0	CW 551	10M 111
WB1HIH	12-29-81	692	To W5VZK	40,000 M/W	.05	CW 552	40M 128
KH60A	12-29-81	693	KH6RZ to ZS6FG	2,501 M/W	5.0	SSB 97	10M 112
WA4QFJ	12-29-81	694	To KA6HXJ	2,340 M/W	1.0	CW 553	15M 233
WA7YRV	12-29-81	695	To VK3NSY	1,631 M/W	5.0	SSB 98	10M 113
WBBCE	1-16-82	696	To KD60	1,800 M/W	1.5	CW 554	15M 234
AF3Z	1-16-82	697	To DJ2ZI	1,333 M/W	3.0	CW 555	10M 114
EA1AER	1-16-82	698	To W0QGI	1,466 M/W	3.0	CW 556	10M 115
W6MUL	1-16-82	699	To AL7G, 2X QRP	44,000 M/W	.05	CW 557	10M 116
ZS6P	1-16-82	700	To W9NAX	4,288 M/W	2.0	CW 558	10M 117
VE6ACH	1-16-82	701	To K4JSG	1,433 M/W	1.5	CW 559	15M 235
* KA9JJK	1-18-82	702	To KA7HNR, NOVICE	1,900 M/W	1.0	CW 560	15M 236
EABEY	1-18-82	703	To ZL4KI	12,100 M/W	1.0	CW 561	15M 237
DA2VK	1-30-82	704	To KA5AGD, 2X QRP,	4,800 M/W	1.0	SSB 99	10M 118
N2CNI	1-30-82	705	To ZL2MM	4,400 M/W	2.0	CW 562	15M 238
W6JHQ	1-31-82	706	To WA1YLN, 2X QRP	1,590 M/W	1.5	CW 563	15M 239
WA3YZW	1-31-82	707	To G4DZW	2,313 M/W	1.5	CW 564	15M 240
N4FLC	2- 5-82	708	To AE7N	1,386 M/W	1.5	CW 565	20M 178
WBBBHU	2-13-82	709	To VK1FT	6,400 M/W	1.5	CW 566	15M 241
K4KJP	2-13-82	710	To W40DW	168,000 M/W	.000075	CW 567	23CM #3
* W40DW	2-13-82	711	From K4KJP	168,000 M/W	.000075	FM #3	23CM #4
JH6FZN	2-13-82	712	To JHBANO	54,652 M/W	.02	AM 37	6M 14
WA4FGM/O	2-13-82	713	To EA7BZN	21,750 M/W	.200	CW 568	10M 119
KA4TQA	2-13-82	714	To DL7CS	3,072 M/W	1.5	CW 569	15M 242
* VK2PCV	2-13-82	715	To N1BAX, NOVICE 1st CW QSO	2,500 M/W	4.0	CW 570	10M 120
WBSCTC	2-14-82	716	To VQ9WE	4,700 M/W	2.0	SSB 100	15M 243
WB6UNH	2-27-82	717	To WB9LTY	19,250,000 M/W	.0001	SSB 101	15M 244
WA2SXF	2-27-82	718	To VK1WH	4,925 M/W	2.0	SSB 102	10M 121

(Continued from 5,000th member)

Best contact was a round table between a PY and two VKs, who gave a 579 report in VK land.

For antennas, he has a four element monobander for 15 meters, a 5 element monobander for 20 meters, both at 35 feet and a 20/40 dipole at 45 feet. The rest of the QRP equipment consists of one straight key and a 100 ampere-hour battery which is used otherwise for the outboard motor launch.

Fred lives on a small cattle ranch and so has plenty of acreage for an antenna farm. There are no commercial services or roads, so there are no street poles or telephone lines

or ignition noise as there are no cars in the area. The 3 or so boats which pass by most days are all diesel engine equipped, hence, no ignition noise anywhere. Since the entire island is flat there is nothing in the way for a straight shot at all continents. And, except for the dry season, the water level is about three feet below ground level. All this goes to make up a pretty fair QTH for propagation according to Fred, which helps to explain why he gets out so well. Before QRP, he states it was the usual to get 20db over from Asiatic Russia and 30db over from European Russia on 20 meters and, further, he says, "Isn't that a ridiculous waste of power?"

### CLUB AWARDS UPDATE

by Bill Harding - K4AHK  
QRP ARCI Awards Manager

### NET NEWS

by Red Reynolds, K5VOL  
QRP ARCI Nets Manager

WOW! You people are really keeping me busy with the awards program and it surely is fun. Applications are coming in every day from all over the world. During the last quarter, Km/W certificates were issued to QRP'ers in nine ARRL DXCC countries and all continents except South America.

Several of you have made some rather unusual accomplishments. Our president, Thom Davis - K8IF, has won a WAC award endorsed for all CW on 40 meters. Al though the records are not complete in reference to single band endorsements, I could not find evidence of any other QRP-WAC awards having been issued for 40 meters.

Terry Young - K4KJP, who was mentioned in the October '81 issue of the Quarterly for his 432 Mhz Km/W award, has done it again. This time he and W4ODW have qualified for 168,000 miles/watt on 1296 Mhz (23 cm) using 75 micro-watts, a homebrew diode tripler from 432 Mhz and a homebrew 10 element Quagi.

A Japanese QRPer, JH6FZN, qualified for 54,652 miles/watt with 20 milliwatts output on 6 meter AM.

N4VC has qualified for the WAS award endorsed for all SSB on 6 meters.

Two Km/W awards were issued to Novices, KA9JKK and VK2PCV. The Australian certificate was issued for his very first Novice CW contact. How many of us can claim that kind of DX for our 1st QSO?!!

The Km/W distance champ for the quarter is WB6UMH with 19,250,000 miles/watt using 100 microwatts output on 15 meters.

Five of the new QRP-NET awards were issued and WD8IDD was the only DXCC applicant.

VK3AOR, Chris Levingston, wrote me about a Novice "JUMBUNNA" Award which is available from him. Jumbunna is Australian aboriginal for "let's get together and talk". The requirements are 15 VK3 Novice QSOs, GCR list and \$3.00. Australian DX Novice frequencies are 21.125 to 21.200 and 28.100 to 28.600 Mhz. They are limited to 10 watts input so QSOs with them can be 2-way QRP.

The new QRP-25 certificates are now available and I'm looking forward to issuing lots of these after the Spring QSO Party.

Please write me with your suggestions for improvements and/or additions to the Awards Program. A new operating award is being considered for Novice/Technician DX achievement. Your comments would be most welcome. A copy of the current Awards Program requirements and rules are available from me for a S.A.S.E.

See you on the air. 73, Bill, K4AHK

Novice QRP Operators. VK CW QRP Club points out that VK novice operators may only use parts of three bands - 3525 Khz upwards, 21125 Khz upwards, and 28100 Khz up... VK CW QRP Club, 3rd Quarter, 1981.

As we approach Daylight Savings Time, it is time to watch our favorite net(s) change frequencies and LOCAL time - all keep the same UTC. The Wednesday local time nets, GLN and GSN will move to 7040 Khz. NEN will move from 7040 to 7030 on a permanent basis to avoid SWBC QRM. Our latest and newest net, the South-west Novice Net, managed by KG6JII, will be on 7110 Khz, 1600Z Saturdays during daylight time, and on 3710 Khz, 0400Z Thursdays (local Wednesday time) during the "Normal clock" time. One other net possibility is being worked on hopefully with full information in the next issue of QRP Quarterly.

New 25 QNI winners since the last quarter are:

K3TKS	Certificate	TCN-20 (#5)
K4AHK	Sticker	SEN-40 (#1)
W6RCP	Sticker	TCN-20 (#6)
WD9EGW	Certificate	GLN-80 (#2)

At the time of the closing of the net logs, there were 5 members with 23 or 24 QNI on other nets. Seven members have qualified for twelve awards since the nets were officially sanctioned by QRP ARCI.

Current nets are:

TCN (K8IF)	0100Z Mon	14.060 Mhz
TCSN	2300Z Sun	14.285
TCNN (WA2KSM)	2359Z Mon	7.110
NEN (WD4LOO/ WA9WZV/4)	1300Z Sat	7.030
GSN (K5BOT)	0200Z Thur (DST)	7.040
	0200Z Thur (Normal)	3.560
SWN (W6RCP)	1600Z Sat	7.040
GLN-80 (K5VOL)	0200Z Thur (DST)	7.040
	0200Z Thur (Normal)	3.560
GLN-40 (N8CDP)	1500Z Sat	7.040
SWNN (KG6JII)	1600Z Sat (DST)	7.110
	0400Z Thur (Normal)	3.710

The net managers all appreciate any volunteers to NCS a net any week a month, and all offers to be an alternate NCS. Nets are a good source of up-to-date club happenings and a way to pick up new QRP numbers for awards. Hope to meet many of you in the upcoming QRP SSB QSO Party. Red, K5VOL

Note to all XYLs and YLs alike: The club is for everyone. I want to start a column by and for you. We only publish articles from the OM; all the articles we ever get is from the OM. Please don't be shy. Build something. Whatever!!! Send it all to the editor, address on the inside front cover.

Don't forget: Renewals and new memberships are processed through the club Secretary/Treasurer. If they are sent to the editor, their processing is only delayed. The Sec/Treas.'s address is on the inside front cover. Thanx.

A Diamond is but carbon that has withstood the pressures of time... Plato



"DE K8IF MBX NEXT?"  
by Thom Davis, K8IF

As of January 15th a new service has been available to QRP ARCI members. This new service, called the K8IF Mailbox, operates on the principle of message relaying. The K8IF Mailbox, or MBX, uses the INFO-TECH M-500-ASR terminal, a Micro-processor based communications system usable on CW, RTTY, and ASCII. With the addition of an expansion board, the unit can be used to read, store, and replay messages - ie, Mailbox mode.

The MBX is operated on CW, and is located on 7.043.0 MHz (transmit frequency). Availability has been, for the most part, 24 hours. The exception being nets - ie, TCNSN TCN, GLN. When 10 Mhz becomes available, a new operating frequency may be established, as 7 Mhz does not seem to be the optimum band for propagation to most parts of the U.S.

Access to this system is by the use of select codes or commands. There are two options available: 1) SEL-CAL - Replays "canned" messages ie, messages written by K8IF (not erasable) and 2) MBX - To read, write, list, or delete messages left by users. Whether using the SEL-CAL or MBX, the user must always precede all commands with "VVV VVV".

As of this writing, the following commands are available:

<u>SEL-CAL Command</u>	<u>Function</u>
K8IFZW	Sends date, time, ID, and gives the command code for listing SEL-CAL and MBX commands.
CMD	Sends all command codes for SEL-CAL and MBX.
NUZ	Sends a "canned" News message for QRP ARCI, or other items of interest.
20Z	Sets MBX to 20 WPM.
30Z	Sets MBX to 30 WPM
40Z	Sets MBX to 40 WPM

<u>MBX Command</u>	<u>Meaning</u>	<u>Function</u>
ZL=	<u>List</u>	Lists all messages by number, and the heading, ie: 001 K8IF DE WA2JOC 002 K8BX DE K5VOL, etc.
ZR # =	<u>Read</u>	Replays message number # ie. Reads contents of message #
ZD # =	<u>Delete</u>	Deletes message # ie. deletes message from mailbox memory, and re-assigns new message number to messages after deleted message.
** ZS=	<u>Select</u>	Selects message numbers for that callsign
ZX=	<u>Identify</u>	MBX identification ie. to locate "BX frequency.

<u>MBX Command</u>	<u>Meaning</u>	<u>Function</u>
ZB= to/	<u>Begin</u>	Begins heading of message, call to/call from ie. file name of message.
= msg NNNN	<u>Message</u>	Opening for message text, the message, closes message.

\*\*Depending on your WPM, it may be necessary to leave a space between the Z and S. Note also, ZS may change to ZG in the future, ie. ZG for Get message number for call.

Again, all commands (SEL-CAL or MBX) must be preceded with "VVV VVV". A space may be inserted between the Z and next letter without affecting operation of command (MBX). It is also important that your speed (WPM) be close to that of the MBX ie. 20, 30, or 40 WPM. For instance, if you're sending 35 WPM and the MBX is set for 30, the MBX may not respond to your command. Therefore, you should set the MBX for 40 WPM or QRS to 30 WPM. However, for speeds less than the MBX, operation is normal.

Here is an example of how to operate the MBX:

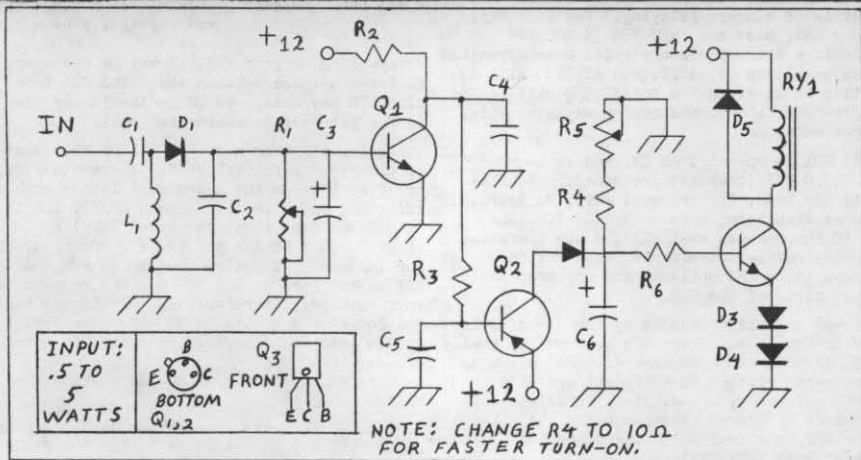
1. WA2JOC puts his transmitter on 7.043.0 and sends "VVV VVV ZS= WA2JOC =" The MBX finds two messages for him and sends "009 WA2JOC DE K4JO 015 WA2JOC DE K8BX"
2. Bill then Reads message 015 by sending "VVV VVV ZR 15 =" The MBX finds message 015 and sends "015 WA2JOC DE K8BX (the message text ...Hi Bill...73 Tom NNNN). Bill does the same for 009, and MBX replies...
3. Both messages being read, WA2JOC then Deletes \*messages (starting with last message first) by sending "VVV VVV ZD 015 =" The MBX sends "MSG 015 DELETED". WA2JOC then deletes 009, and the MBX replies...
  - \*a. Always delete the last msg first (if there is more than one message for you).
  - b. Do not put an extra (=) between ZD and # - You will delete a wrong message!
4. WA2JOC then Begins messages back by sending "VVV VVV ZB= K8BX / WA2JOC=" MBX replies "WA2JOC BEGIN MSG TO K8BX K".
  - Bill then sends his message "VVV VVV = Hi Tom es txr fr ur msg...NNNNN".
  - The MBX replies "WA2JOC QSL MSG # FOR K8BX OK"\*
  - Bill then writes K4JO, and MBX replies... \*\*If your message was less than 255 characters, MBX will send "OK". If your message is over 255 characters, the MBX will send "OVERWRITE ERROR", and record only the first 255 characters.
5. To make MBX identify send "VVV VVV ZX=".
6. To list all msg # and heading send "VVV VVV ZL=" (Note: The list can be lengthy, so try ZS=call= first).

(Continued on Page 13)

Wanted - A simple program for use on an Apple II to compute distance in miles between two points, given longitude and latitude of each point... K4AHK, Awards Chairman



# From the BREADBOARD



## AN RF SENSED ANTENNA SWITCH

by Michael Bryce, WB8VGE

It seems that every now and then we read about someone who works all kind of DX with 500 milliwatts with a coat hanger stuck in the back of the rig. Well, I can't do so well and have to connect a better antenna. If that still doesn't work, then I connect a small amplifier to the output of the rig. I'm not talking about a 500 or a 50 watt amplifier, but only a 5 watt one. Now if I'm using a transceiver some means must be made to get the amplifier in and out of the antenna line between transmit and receive. Enter... the RF sensed antenna switch.

This little circuit will control all the switching needed and will do so at the touch of the key. It's simple to build and should cost next to nothing in parts. All components were obtained from the junk box here.

Let's look at the circuit for a minute and see how it works. RF from the exciter is coupled via a small disc capacitor, in this case a 5 pf. A 1N914 diode rectifies the RF into a small amount of dc. This small voltage is then placed on the base of the 2N2222 transistor and when it reaches the turn on point of the transistor (which is set by the 50K trimmer pot, R5) it turns on. When the transistor is off, the collector is normally held at 12 volts by R2 (10K).

Once the transistor is turned on the collector is now at about zero volts. When this happens the PNP transistor Q2 is turned on. This allows 12 volts to be passed through diode D4 and charge capacitor C6. At the same time transistor Q3 is turned on and the relay is pulled in routing the antenna through the amplifier. When the key is let up we no longer have RF to turn on Q1 so it shuts off. This now places 12 volts on the base of Q2 and it

also shuts off. Diode D4 acts like a one-way valve so C6 can't discharge through Q2.

Since the charge on capacitor C6 is about 12 volts this will hold the transistor Q3 on till it is discharged by R5. This control is used to set the delay of the relay.

Diodes D5 and D6, which are in the emitter lead of Q3 are there to set up about 1.4 volts of bias which is needed to keep the relay from staying on by leakage and Q3 residual voltage. They may or may not be needed depending on the relay and the transistor used. If that's the case, then the emitter lead of Q3 is connected to ground.

Diode D7 across the relay coil prevents damage to Q3 when the coil is shut off.

The construction of this circuit can be on perf board or, as I did, a small printed circuit board. An S.A.S.E. will bring both the art work and parts placement.

After assembly is done a few checks with the voltmeter are in order. Adjust R1 and R5 to their center positions. First check to see if 12 volts are at the collector of Q1 and the base of Q2. Now if we apply a small amount of RF to the input, the voltmeter will show some base voltage at Q1 and the relay should pull in. Adjust R5 for the amount of delay you wish. On my printed circuit board I have R5 as a small trimmer pot. There's nothing wrong with making it a small front panel control if desired. If for some reason the delay did not pull in, a simple way to check it is to take a clip lead and apply 12 volts to the collector of Q2. This will make the capacitor charge up and turn on Q3. If it does then the trouble is in Q1 or Q2 or the associated parts. If the relay still does not pull in, then the bugs are in Q3 and its parts. Remember, RF must be present at the input to trip the relay.

(SEE PAGE 14)

Homebrewer's Directory for  
Parts and Components

The following list of sources of parts and components is provided for those budding homebrewers who may not know where to obtain those components listed in the Breadboard plans they see in the Quarterly. No claims are made as to quality of parts or service offered by these suppliers.

1. Radiokit (New parts and kits)  
Box 429  
Hollis, NH 03049  
603-465-7660  
MC, & VISA Cards
2. Circuit Specialists (New Parts)  
Box 3047  
Scottsdale, AZ 85257
3. Circuit Board Specialist  
(Circuit Boards and Kits)  
P.O. Box 969  
Pueblo, CO 81002  
303-542-5-83
4. Semiconductor Surplus  
2822 N. 32nd St  
Phoenix, AZ 85008  
602-956-9423  
MC & VISA Cards
5. MHZ Electronics (Semi-conductor)  
2111 W. Camelback  
Phoenix, AZ 85015  
800-528-0180 (Orders only)
6. Fair Radio Sales (Surplus)  
1016 E. Eureka, Box 1105  
Lima, OH 45802
7. Ramsey Electronics (Solid State)  
25 75 Baird Rd  
Penfield, NY 14526  
716-586-3950  
Minimum Order \$6.00
8. Caddel Coil Corp. (Coils)  
Poultney, VT 05764  
802-287-4055
9. Poly Paks (Surplus)  
P.O. Box 942-M1  
S. Lynnfield, MA 01940  
MC & VISA Cards
10. D&V Radio Parts  
12805 W. Sarle  
Freeland, MI 48623  
517-695-2210
11. Active Electronics Sales Corp.  
(Transistors & Semi-conductors)  
P.O. Box 1035  
Farmingham, MA 01701  
617-879-0077  
MC & VISA Cards
12. CMI Electronics (New Parts)  
715 Armour Road  
N. Kansas City, MO 64116  
1-816-474-7170  
MC, VISA & AMEX Cards
13. ENF Enterprises (Surplus)  
119 Foster Street  
Peabody, MA 01960  
617-531-5774  
MC, VISA & AMEX
14. Digi-Key Corp. (New Solid State)  
Hiway 32 South  
P.O. Box 677  
Thief River Falls, MN 56701  
1-800-346-5144  
MC & VISA Cards
15. Merlin P. Jones Assoc. (Surplus)  
P.O. Box 12685  
Lake Park, FL 33403  
305-848-8236  
MC & VISA Cards
16. Surplus Electronics Corp. (Surplus)  
7294 N.W. 54th Street  
Miami, FL 33166  
305-887-8228  
MC & VISA Cards
17. Aldelco Electronics Co. (Semi-cond)  
2789 Milburn Ave.  
Baldwin, NY 11510  
516-378-4555  
MC & VISA Cards
18. Eteo Electronic Corp.  
North Country Shopping Center  
Rte 9 North  
Plattsburgh, NY 12901  
518-561-8700  
MC & VISA Cards
19. Chaney Electronics, Inc. (Surplus)  
P.O. Box 27038  
Denver, CO 80227  
303-781-5750  
MC & VISA Cards
20. J.B. Saunders Co. (Surplus)  
3050 Valmont Road  
Boulder, CO 80301
21. Jameco Electronics (Solid State)  
1355 Shoreway Road  
Belmont, Ca 94002  
415-592-8097

This by no means exhausts the list of possible suppliers, so if you have others you think should be on this list, let the editor know so they can be included in future issues.

If you know someone who persists in their philosophy that cranking the drive down on the finals will keep the signal down to a local area, make them aware of the potential of the signal. Show them the awards summary sheets compiled by the Awards Chairman. A signal will still get out!! Don't let them adopt a loose policy; even during non-optimum conditions, there may be someone who could be having better conditions. Give the other person a break.

Courtesy Pays. Someday you *may* be the other person. (Ed.)

QRPP IN THE MOUNTAINS  
by Dan Lewis, N6HY

"SCHEMATIC" of the QRPP Backpack

Backpacking and QRPP go hand in hand, provided the camper/operator knows how to plan a trip properly.

Rigs of more than 5 watts are impractical for backpacking because of the weight of the power source.

If backpacking is the primary purpose, then a minimum rig such as a crystal-controlled, ultra-lightweight unit that will fit in the palm of your hand should be used. But even this is a tradeoff in that what advantage you gain in weight you offset with a loss in flexibility to operate.

On the other hand, if your goal is to combine a backpacking experience with efficient operation, a full-blown, VFO-controlled side-band rig such as the Argonaut is your best option.

One convenient way to haul heavy gear is to backpack in groups. The chief carries the rig, while others in the party divide the remainder of the equipment among them.

My personal philosophy is to haul the extra weight but keep the miles per day traveled down to a comfortable, manageable level. Consider your priorities: Would you rather take a larger battery and extend your operating time or would you rather bring along an extra canister of gas for the stove? I have always enjoyed breathing out a can of peaches or pears at the summit of a mountain while others choke on freeze dried food

But don't short-change yourself on cold-weather or pure survival gear for the sake of taking a rig along. Radio equipment must not displace these items, or your survival is at stake. Of course, you do have the advantage of being able to radio for help in an emergency.

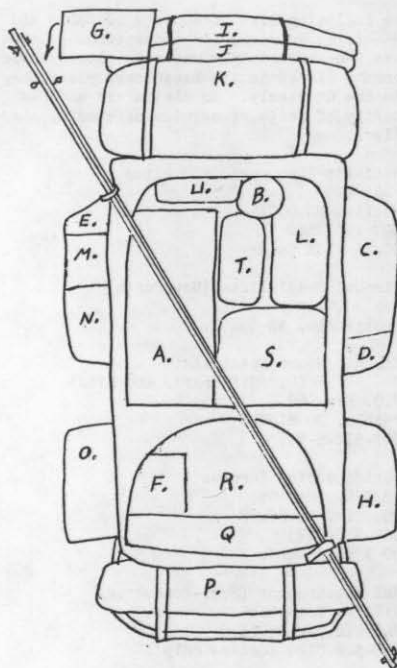
A good antenna for backpacking is an end-fed wire or a dipole fed through a lightweight transmatch. If you are below the tree line, a rock tied to a cord and thrown across a limb can be used to pull your antenna into place. If you are above the tree line, consider a collapsible mast. Sometimes a convenient ravine helps get the antenna above ground level, if you have enough lightweight nylon cord to span the distance.

Plan your excursions to allow plenty of time for slow walking speeds and ample operating time. Consider also that altitude sickness takes most of the fun out of any mountain experience. Try to acclimate yourself for at least a week if you will be at more than 6,000 feet.

Make sure you apply well in advance for whatever permits needed to enter wilderness and other areas. Some popular areas, such as the Mt. Whitney region, require permit applications several months in advance.

I expect to be in the Mt. Whitney area and on the air QRPP the weekends of July 1-3 and August 1-3. I will be using the QRP ARCI band plan and will be listening for QRP and QRO stations alike.

Upgraded? Tell us so we can tell others!!!



"Parts List"

- |  |                  |
|--|------------------|
| A - Argonaut   | B - Oranges      |
| C - Canteen  | D - Beans        |
| E - Gaiters  | F - Cookpot, Cup |
| G - Collapsible Mast w/Wingnuts and Screw-eyes   |                  |
| H - Toilet paper, snow goggles   |                  |
| I - Down Coat  | J - Parka        |
| K - Sleeping bag and Pad   |                  |
| L - Gorp (Walnuts, M & M's, dried apples   |                  |
| M - Map, insect repellent, flashlight, matches, candle, cookpot handle, spoon, P-38 can-opener, Compass                                    |                  |
| N - Mirror, moleskin, aspirin, chapstik, water purification system   |                  |
| O - Canned Fruit, beans, cheese, dried meat  |                  |
| P - 2 pound tent   |                  |
| Q - Hot cocoa Mix, lemonade  |                  |
| R - Underwear, raincover for pack, down vest, canteen, stove   |                  |
| S - Calibrator, transmatch, lantern battery  |                  |
| T - Toolkit: Power cords, log, pencil, small screwdrivers, pocket knife, small side cutters, coax, ju'pers, 8" steel grounding spike, tape |                  |
| U - Antenna: 100 ft 20 guage hookup wire, 275' roll #18 nylon twine (170 # test)   |                  |

Are your membership dues to expire in a few months, six perhaps? Why not save yourself some 11th hour planning? Save the editor the task of having to "Red Letter" your envelope for last issue... Renewals can be made any time during your membership period. Why not avoid the "Christmas Rush"? Renew now. We want you!!



"DE K8IF MBX NEXT?"  
(Continued)

Some noteworthy points: Be sure that:

- o You are zero beat with the MBX frequency, or transmitting on 7.043.0 +/- 80 Hz.
- o Conditions are adequate - MBX is fussy about QRM, QRN, QSB, or signals at noise level.
- o Your sending is good - Don't run characters together or space too far apart.
- o You send commands correctly - Don't mix-up command characters like ZD=#, ZR=#, ZB/call =, etc. MBX only likes correct commands, otherwise you may get no response, read the wrong msg, or delete a wrong msg!

Remember, you are smarter than the MEX!  
Don't try to trick it - send only what it wants to hear. Furthermore, don't be afraid of the MEX (it doesn't bite) or become frustrated, practice makes perfect. Also, don't be shy, mistakes are welcomed - nobody gets it right the first time. GL.

73, Thom, K8IF

Memorandum to Readers: Add the following items to the above text for MBX:

SEL-CAL Command Function

K8IFZW This command sent to MEX initially turns on MBX and then subsequent functions will follow as listed above.

MBX OFF Gives date, time, and turns off MBX.

73, Thom, K8IF

(From The Editor's Soapbox)

address. If you know someone who moved and did not get a copy due to this error, send us the 29¢ stamp so we can keep the library current and complete.

The editor (me) is still getting renewals here. If you renew or know someone who's joining, send applications to the Secretary/Treasurer, address inside front cover.

Help us support QRP activities. If you want to talk to someone, even in your town, use the radio, use the QRP frequencies. Listen for others to join in; give a pause between returns for breakins. Create a roundtable, talk about QRP and the club. Promote our activities. Keep your calendar updated on the QSO Parties and the contests.

That's a wrap for now. Don't hesitate to submit articles. Technical help needed? Drop a line here for inclusion in the Quarterly. Push QRP. Tell people about us. This is your club, so help us expand.

Good luck QRP/QRp and BCNUl.

73, Mike, KA5EXI

Late Memorandum to Readers: Just a reminder to all concerned that the 50 watt membership requirement has been dropped.

(New Member List, Continued)

KA4TQA, Donald W. Holloway, #4926  
KABLCR, Donald E. Addington, #4927  
VK1BB, Barry L. Bennetts, #4928  
AA7AA/9, John A. Miller, #4929  
KB4PA, John C. T. Meyer, #4930  
WB3HKN, Leonard W. Theodore, #4931  
KA6NPD, Richard D. Vernot, #4932  
VE6ACH, Charles W. Hunt, #4933  
KA5IMO, Harry N. Howell, Jr., #4934  
AC1L, Richard C. Burnham, #4935  
W1DKY, Robert F. Bessette, #4936  
N1BOM, John T. Collins, #4937  
WA3VVG, Robert H. Lundberg, #4938  
WB2AJP, Richard J. Gillani, #4939  
KA7GWR, Donald F. Carter, #4940  
WB8UUJ, Thomas A. Root, #4941  
KA5HKR, Lawrence C. Bentley, #4942  
ZL2BJC, Iain M. Hill, #4943  
KC4HX, Monte E. Smith, #4944  
KA1EXG, Frederick Sterner, #4945  
WB0CRQ, Richard K. Snyder, #4946  
WA3RXE, Thomas K. Harris, #4947  
KB9KX, Thomas R. White, #4948  
N5AF, Sammy E. Neal, #4949  
VE3CI, Jim Dunstan, #4950  
KA4JOZ, Sherwin Goldman, #4951  
N0CNZ, James J. Connolly, Jr., #4952  
WB4LJP, James E. McQueen, Jr., #4953  
N6HY, Dan Lewis, #4954  
SM1CNS, Thomas Bevenheim, #4955  
KA4YAE, Robert M. Peterson, #4956  
NS4Q, Robert E. Duer, #4957  
KA0MRS, David L. Bitters, #4958  
WB7TNH, Joseph P. Heyde, #4959  
KA4BGW, Earl Dehart, #4960  
KA3ILM, Roberta P. Bembry, #4961  
WD6FDH, John B. Mooney, #4962  
W1FMR, James M. Fitton, #4963  
WB9N00, Michael J. Stein, #4964  
WB6UNH, Frank T. Crowe, #4965  
N8DFC, Lowell L. Huprich, #4966  
KA2MIN, James J. Meaney, Jr., #4967  
WB9WGM, Gerald CzaJa, #4968  
WB8BPD, Jeffrey S. Krenz, #4969  
N1BKX, Federick . Kelley, #4970  
K4RYI, Errol H. Barnes, #4971  
W4NZP, William H. Robertson, #4972  
G4NNJ, Allan G. Forster, #4973  
W6JHQ, Thomas R. Brown, #4974  
KB2XR, Kenneth E. Poucher, #4975  
DA2VQ/KB6TE, Victor Knoch, #4976  
HK1IV, Alfonso Soria, #4977  
WA1YLO, Charlotte Curry, #4978  
WB8HRW, Roger Suer, #4979  
WB1GMG, Joanne Fellows, #4980  
W0GNJ, Wayne Paarmann, #4981  
WA1GRB, Bruce E. Altfeiter, #4982  
AC6G, Antoine Galindo, #4983  
KA6JQD, Stephen A. Grant, #4984  
WB8QYT, Jeffrey L. Popa, #4985  
KA2MHS, Fitzroy Rogers, #4986  
KA2NHP, Russell T. Foster, #4987  
KA9JKK, Max H. Adams, #4988  
WB3GNJ, Jim Seeber, #4989  
KA9LGA, Edward F. Kloubec, #4990  
VK2DMW/ZL1BVU, Frank Lewis, #4991  
WA2PNF, John M. Sawina, #4992  
WB9UDY, Jack R. Coate, #4993  
VE7DZD, Roger Henly, #4994  
W0VS, James J. Droeger, #4995  
CT4SL, Joao J. Pargana, #4996  
K9HVS, Martin A. Perry, #4997  
WA1MAC, Paul D. Clark, #4998

QRP ARCI Election for Board of  
Directors  
(One Seat - expires Dec 31, 1985)

Nominees:

James A. Holmes - W6RCP, QRP #4300

On a recent transcontinental 20 meter net, a non-member checked in and asked the question: "Why are most of the QNI QRP numbers in the four-thousand series?"

In asking the question, that station hit on one of the major problems facing QRP ARCI and one which I, as a member of the Board of Directors, would propose we actively solve; not only expanding our membership but encouraging older members to renew their interest and activities. In other words: Get some more "low numbers" checking into our nets, entering our contests and otherwise keeping active.

The club needs an aggressive program to increase the percentage of renewals each year. Abolishing the 50-watt "power pledge", a move I supported, was a step in the right direction, but there must be other efforts as well. I want to work on the problem, find the answers and take what action is needed to keep our membership ranks high.

I have worked hard to encourage QRP participation in the Southwest. In a state which is known for its "California Kilowatts", I have convinced several hams that QRP is a much better approach.

For the past year, I have been the Southwest Section Nets Manager and net control station for the SWN-40. I enjoy QSO parties and nets. The wall of my shack is adorned with five QRP ARCI awards and certificates attesting to my interest. Over the years, I have had QSO with 147 members, and always on the lookout for more. Between contacts, I experiment with wire antennas, striving for the perfect one for my limited space.

A ham radio operator for the past 24 years, I have held calls K8LTV, KH6DFQ, and was /KG6 for 2 years. I hold a General class license and have been a QRP ARCI member since 1979. I retired from the Federal Aviation Administration as a supervisor in electronics aids to air navigation.

James F. Lammers - KC5YY, QRP #4709

I retired from the USAF in March, 1974. Most of my twenty years in the service were spent as a Special Agent (criminal and counter-intelligence investigator).

I am an Advanced class license holder and have been a licensed ham since 24 December 1979.

It is my belief that a member of the Board of Directors should be exactly what the name implies. That is to assist in the direction of the club's basic goals in accordance with the wishes of the majority of the membership.

I believe that I can make a valuable contribution to the club and its membership by following this basic guideline that I have established for myself.

I would work toward the goal of seeing that awards and recognition be given to those who operate within our club's definition of what QRP actually is in order to encourage more QRP operating time.

I would like to see the club expand its membership, but not at the expense of degrading our goals. I feel that it would be much better to have a relatively small group of totally dedicated QRP enthusiasts than to have a large, cumbersome organization that lacked definite goals and positive leadership.

A ballot is provided on the facing page for votes on this office. Don't be one of the silent majority! Vote and be one of the vocal minorities. (Ed.)

—QRP-AROUND THE CORNER-AROUND THE WORLD—

PARTS LIST

R1 - 25K Trimmer	R6 - 10K
R2 - 10K	C1 - 5 Pf
R3 - 2.2K	C2,5 - .01
R4 - 100	C3 - 10 Mf
R5 - 50K Trimmer	C4 - .1
Q1 - 2N2222	C6 - 100 microf.
Q2 - 2N2907	RY1 - 12V
Q3 - TIP 29A	D1-4 - 1N914
L1 - 1 mh	D5 - 1N4001

The circuit will work on just about any frequency and with about 500 milliwatts input level. I've built several of these. With a clip lead connected to the input and the other end hanging from the lamp over the bench, I have been able to trip it with the 2 watts coming out of the 2 meter hand-held at up to ten feet away.

Now that we have the project running, we can put it to use. Aside from switching a small amplifier in and out of the line, the next best idea that comes to mind is a simple T-R switch to move the antenna from the receiver to the transmitter. As it takes very little to trip the relay one should find a place for one in their next QRP transceiver.

By setting the control R5 we can just about get full break-in (QSK). This will determine the relay speed - fast enough to follow the keying speed of the sender. Here would be a good place to use up some of the reed relays you picked up at the local hamfest.

If used for T-R switching, the first part of the circuit can be used for numerous other functions. One could be a sidetone sensed by RF from the transmitter. By setting control R1, we could come up with an RF level detector that would light up an LED when we would exceed a preset amount. By adding a few more parts we could come up with an RF level detector that would light up an LED if we drop below a preset level. The uses are up to the builder, as what can be done.

So there you have it. Hope this circuit will find itself into your next QRP project.

BALLOT

Official Ballot for QRP ARCI Board of Directors election - please read the profiles of the two candidates for the one vacant seat on the Board of Directors. After reading the profiles, vote for one and only one of the two candidates who you feel will best serve the club. Please return the ballot (or facsimile of same) to arrive no later than May 15, 1982, to:

Edwin R. Lappi - WD4L00  
Secretary/Treasurer, QRP ARCI  
203 Lynn Drive  
Carrboro, NC 27510

Call \_\_\_\_\_ QRP # \_\_\_\_\_ (For verification purposes only)

----- (To be separated by Secretary-Treasurer) -----

Vote for one only

1. James A. Holmes - W6RCP, #4300
2. James F. Lammers - KC5YY, #4709

