

QRM

BULLETIN ISSUED BY THE NORTHERN
BRANCHES OF THE WIRELESS INSTITUTE
OF AUSTRALIA, TAS. DIVISION.

P.O. BOX 1010
LAUNCESTON
TAS. 7250

December 1975
VOL. 5 NO. 6

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PRICE 40c

MEETINGS

- December 9th North West Branch Meeting Lakin Hall
Ulverstone 8 p.m. Ladies Night.
- December 13th (Saturday) Northern Branch Barbeque at
Joe Gelstows QTH
40 Lavender Grove
About 6 p.m.
See further details in Northern Notes

Y.R.C.S. MEETING

- December 13th Kings Meadows High School 10 a.m.
-for purpose of examinations only

Next meeting after will be February 28th

- December 13th Lakins Hall Ulverstone 2 p.m.
January 10th will be next meeting.

CONTESTS

- December 6th-7th ARRL 160 metre
- December 13th-14th ARRL 10 metre

EDITORIAL.

Well, another year is over and soon we will be making our new year resolutions. I hope one each of us will make it to write one article for Q.R.M. At the last meeting there was general agreement that Q.R.M. should not fold up due to increases in costs but that it should be maintained and include technical articles so please, how about one?!?! you may post it to P.O. Box 1010 Launceston and make the editor extremely happy as there are no reserves of articles at all at the time of writing. Due to Christmas holidays there will be no January issue but there will be a February one and the dead line is January 18th. At this time I would like to thank Gordon VK7AW for typing the mail wrappers, Lindsay VK7ZLD for posting Q.R.M., Joe VK7GJ, Frank VK7BC and Graeme VK7ZAQ for their monthly articles and the Grade 10 typing class at Cressy District School for typing Q.R.M.

On behalf of all the people associated with the production of Q.R.M. and myself I'd like to wish all our readers a very happy Christmas and a prosperous New Year.

CUW 76

Graeme VK7ZGG

NOTICES OF MOTION FOR NORTHERN BRANCH A.G.M.

Paragraph 7 of Northern Branch Byelaws indicate that notices of motion for the A.G.M. must be in the hands of the secretary 21 days prior to the A.G.M. The A.G.M. is to be held on the 12th March so this means notices of motions need to be in by the 20th February. They will then be circulated to members in the March issue of QRM prior to the A.G.M.

Perhaps there is also a need to begin thinking about who you want on the executive next year.

Brian VK7ZBY our President and all the executive wish members and friends a very happy christmas and a most prosperous new year.

Wanted 3 only 88 mh toroids or
AWA 40047 TV line oscillator coils
70° or 90° TV deflection yoke with focussing coil or magnetic
focussing included.
Contact Mark Corbould
268 Penquite Rd.
Phone 44 3223.

Northern Branch Meeting Notes.

The meeting commenced at approximately 2008 hours at the Bourke Street rooms with about 24 members present. Brian VK7ZBY reported on an excellent hour of the examiner.

A vote of thanks was extended to Kevin VK7ZAH for his work in the past as treasurer of the branch.

Correspondance was received from the town clerk confirming use of clubrooms, the Northwest Branch thanking us for the repeater donations and the Southern Branch requesting members for the Amateur Advisory Committee.

The financial report showed an income of \$1088.52 for the month and a bank balance of \$628.35.

A long discussion followed on the future of QRM due to increase in postage cost which will double in February, there will be a possible subscription rise from \$2.50 to \$3.50. Most members were keen to keep QRM going and have technical articles included (could do with more too Ed). VK7ZGG would like some assistance. The meeting asked Graeme VK7ZGG and Bod VK7ZRF to form a committee to look into all aspects of production and report to the next meeting.

Frank Morse then showed an interesting film on deep sea oil exploration call "Deep Sea Endeavor."

Notes via Bod VK7ZRF.

NORTH WEST NOTES.

The biggest point of dissussion around the branch this month was the cancellation yet again of the novice licence. One of our associate members called on his local member of parliament. This resulted in a promise to bring it up at question time in the house, unfortunately a few hours later both houses were dissolved. Result--no hope of a novice exam until February. Needless to say there are some very irate would be amateurs in our branch at the moment.

Our December meeting is going to be a Ladies Night so bring the Y L's and X Y L's along for a treat.

See you there.

VK7ZAAQ.

Northern Branch Barbeque

At QTH of Joe VK7ZGJ.

bring your own meat, bread sauce etc. will be supplied.

\$1 donation to cover drinks.

Its on Saturday 13th December at 6 pm.

Address; 40 Lavender Grove.

HF Notes

Conditions over the past few weeks have been predictably erratic on the three higher bands and will probably remain so for the next few months if the various predictions from the observatories prove correct as they usually do.

The lower three bands have been more active because of the above and some good DX is to be had when the sun drops below the horizon.

Last month's VK/ZL contest seemed to produce a greater variety of DX on CW than phone after one broke through the JA barrier.

28Mhz has been tuned occasionally and W's worked around 0300z at good strength.

21Mhz 2200/0100z UZC. UB5. JA. HB. OH. CW. with JZ's W's UA0/JT.VRI. on phone a little earlier.

14Mhz. 0200/0600 KL7. SVI. SV0. YSI. UK6. ZS2. PY1. PJ3. TI2. XE. W. & most of EU. with VK7DK long path.
0800/1200z A6. VQ9. OH. SM. LA. OZ. UA.

7Mhz. Europe most days at weekends between 0300/0700z with West coast and mid/south W's after sunset.

73's Frank VK7BC

WANTED TO BUY *** WANTED TO BUY *** WANTED TO BUY *** WANTED TO BUY

30 foot tetrahedron - wind up - triangular section.

contact David Chatterton

31 Kingston Street,

Norwood

or VK7ZGG Phone 469455.

David would like a position in the field of communications.

Can anybody help?

VHF Notes

At last we have some news for you. Six metres has opened at least five times in the last week.

John VK7JV and Kevin VK7ZAH both worked VK3ZAZ and VK3AQN on Saturday 22/11/75 during a temperative inversion, at the same time Kevin also worked a couple of VK3's on two metres. The mainland repeaters were also usable during the weekend

Getting back to six metres our first opening was to VK2ZAY on 18/11/75, the opening lasted about fifteen minutes. Again on the 19/11/75 we worked VK2BBR, VK4ZBH AND VK4ZRQ, all in about five minutes. On Saturday 22/11/75 ZL TV was watchable in colour for about three hours with QSB although there was no sign of their beacon, ZL4LV was worked by Kevin and Myself. As I write these notes ZL TV is snow free with QSB and has been for about an hour but as yet no ZL stations have been heard.

Meteor scatter still provides a contact if you have the patience to exchange a report. While working VK4ZNW via meteor scatter on 16/11/75 I also heard VK4ZJB calling. After working VK2ZAY on the 18th we arranged a sked with him for the next morning. Reports were exchanged at 7.30 localtime

73's Joe VK7ZGJ

Since this report was written there have been many other openings on both six and two metres so keep listening.

FOR SALE *** FOR SALE *** FOR SALE *** FOR SALE

AR 88LF: good general coverage receiver in good condition-needs realignment.

200Khz to 30.5 Mhz no B.C. band.

single converion - ideal for convertor use \$80 or best offer.

1 only 30foot TV mast \$12

1 only 50 watt base station low band AM unconverted
\$35 or best offer.

Contact S. Beveridge
2. Murphy Place
Scottsdale

(Scottsdale Primary School)

14 mhz to 50 mhz transmitting transvertor (no receiver) uses
2 x 2/5 and 6/40 final of approximately 2 watts SSB out.
Includes crystal. \$30

Contact: Joe Gelston VK7ZGJ
40 Lavender Grove
Phone: 44 3882.

FET Conversion of TE-20D Signal Generator

Graeme Heardon VK7ZGG

The TE-20D is remarkably similar in design to the LSG11 and so makes the conversion very similar to that described in AR March 1970.

1. Remove all wiring and components conceived with the AC power supply and filter network.
2. remove valves from sockets. The Fets may be mounted on a 7 pin and a nine pin plug or soldered directly to the board or the underside - I did the latter.
3. Change the 10K on pin 5 of the 6AR5 to a 1k $\frac{1}{2}$ watt resistor.
4. Change the 250K on pin 1 of the 6AR5 to a 500K $\frac{1}{2}$ watt resistor.
5. From pin 2 of the 6AR5 bypass the 300r resistor with a 100uf 3 volt electrolytic and a 0.001uf capacitor.
6. 12BH7A socket.
Replace with 2 of 2N3819
Drain to pin 1
Gate to pin 2 and Drain to pin 6
Source to pin 3 Gate to pin 7
Source to pin 8
7. 6AR5 Socket
Replace with an MPF 102
Drain to pin 5 or 6
Gate to pin 1
Source to pin 2
8. Replace pilot light with an L.E.D.
9. Add a nine volt battery and it should work.

Incidentally during the conversion I had to call on help from Brian VK7ZBY and discovered that an MPF 105 is no use to replace the 6AR5

- Also 1. if you use TIS 88's you may need 12 volts instead of nine volts and 12 volt batteries are hard to come by.
2. A 2N3819 is much better than an MPF102 in pin 6,7,8 of the 12BH7A socket.
 3. I placed the battery under the chassis and attached it with a strip of aluminum to the rear of the chassis.
 4. The unit with LED working draws about 30mA.

Northern Branch Equipment Store.

There are still some goodies available - I believe they came via the NW. coast Printed Circuit board available.
Double sided circuit board is coming.
- get your order in now.

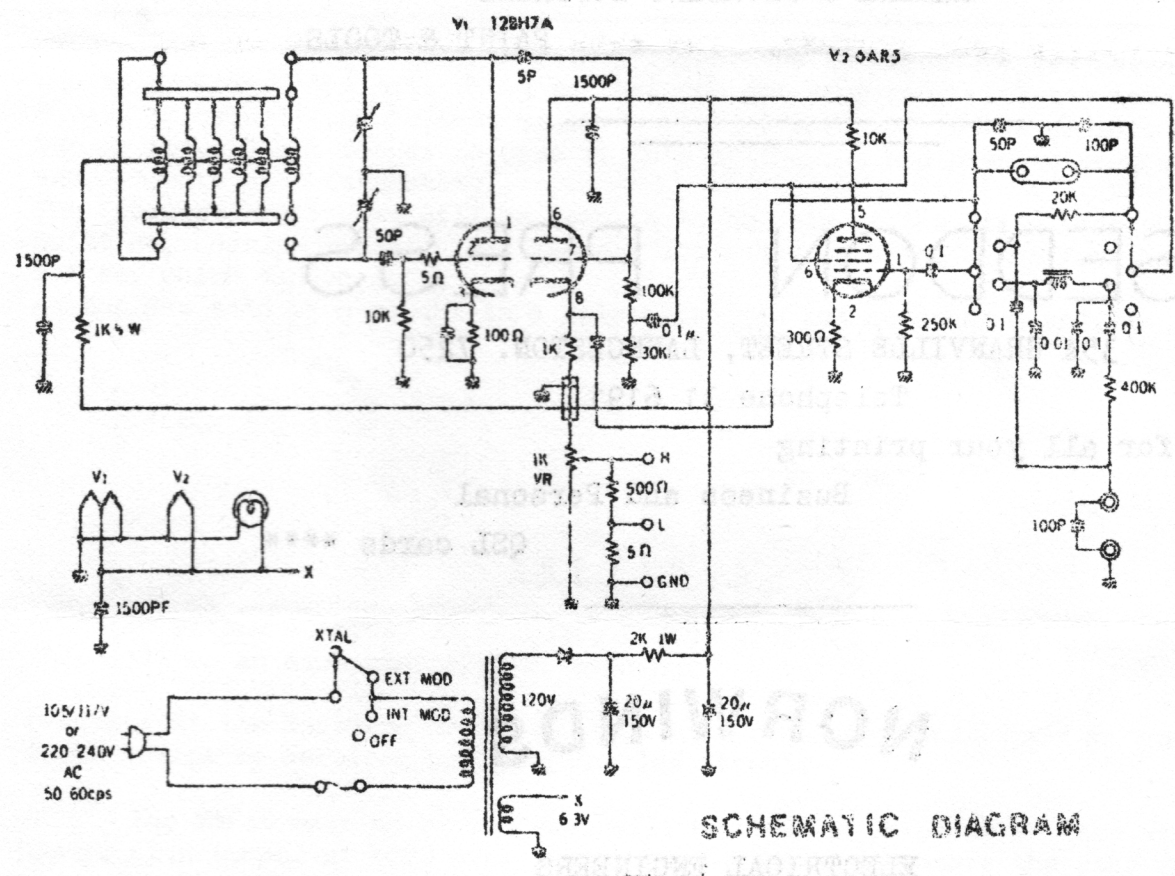
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Telephone 443119

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YOU WILL FIND IT EASY ON YOUR POCKET \$ \$ \$