

THE WIRELESS INSTITUTE

OF AUSTRALIA

MONTHLY BULLETIN

TASMANIAN DIVISION

Box 851J. G.P.O.

HOBART

MAY 1962

Price 6d

PRESIDENT.

Mr. T. Allen.
VK7AL

TREASURER

Mr. C. Harrisson
VK7CH

SECRETARY

Mr. K. Millin
VK7KA

Registered at G.P.O. Hobart for transmission by post as a periodical.

GENERAL MEETING.

The next General Meeting of the Division will be held at the Club Rooms, 147 Liverpool St., Hobart, on Wednesday, May 2nd. at 2000 hrs. Visitors will be very welcome as usual.

LECTURE

The lecture this month will be given by Prof. G. Ellis on "Recent work in Radio Astronomy at the University of Tasmania".

NORTH WESTERN ZONE

The next meeting of this Zone will be held at Lakin's Hall, Ulverstone, on Tuesday, 1st May.

NORTHERN ZONE

The date of the next meeting of the Northern Zone is Friday, 11th May. Owing to the incidence of Easter holidays this Bulletin is going to press a week earlier than usual and I have not heard where the meeting is to be held.

COUNCIL MEETING

The next Council Meeting will be held at the residence of our President Mr. Allen on MONDAY, 21st May.

SUBSCRIPTIONS

There are still many subscriptions outstanding. To those who have paid - thank you. To those who haven't - we would appreciate a remittance.

For the period 24/3/62 to 12/4/62 the Treasurer acknowledges receipt of subscriptions from : VK7CA. VK7TE. VK7SW. VK7NC. VK7KH. VK7YY. VK7PA. VK7PF. VK7CI. VK7GV. VK7AG. VK7DR. VK7AX. VK7AF. VK7GF. VK7LZ. VK7ED. VK7KA. VK7ZAI. VK7ZBA. VK7ZAO. VK7ZAQ. VK7ZAN. VK7ZAH. VK7ZAX. VK7ZEE. VK7ZAK. Donation VK7OM Messrs. R. G. Shorthouse, G. F. Sharp, G. Ränft, H. A. Hutchinson, G. D. Long, L. Jacobson, J. M. Kerr, R. Morell, C. G. Waldon, E. Bevis, J. E. Humble, D. Baigent, H. Harjono, K. L. Wheeldon, G. Cannock, G. J. Harper, H. Hiscutt and W. J. Nickols

CLUB ROOM FUND.

We acknowledge with thanks donations from Messrs. A.E. Allen VK7PA and L. Jacobson. While on the subject of the Club Room Fund, our thanks also to Mr. T. Allen VK7AL for his work in connection with a control board for the St. John Ambulance, to Mr. A. Morrisby VK7MY for transporting same to Launceston and to Mr. M. Chaplin VK7CA who has undertaken to instal the board. The funds should benefit handsomely due to the efforts of these members.

NEW MEMBERS

The following have been elected to membership : Full Member. Mr. G. W. Fink VK7GF. Associate: Messrs. Harry Harjono, D. G. Baigent and G. B. Lutwyche.

DISPOSALS.

Crystals listed last month are still available, first come first served. Price 10s/- each or five for £2-2/-

OFFICE BEARERS FOR THE YEAR 1962-63

At the Council Meeting held on Thursday, 12th April, the following were elected :

PRESIDENT	Mr. T. Allen	VK7AL	
VICE PRESIDENTS	Mr. L. Edwards	VK7LE	
	Mr. C. Harrisson	VK7CH	
SECRETARY	Mr. K. Millin	VK7KA	
TREASURER	Mr. C. Harrisson	VK7CH	
MINUTE SECRETARY	Mr. L. Edwards	VK7LE	
BULLETIN: (EDITORS	Mr. K. Millin	VK7KA, Mr. C. Harrisson	VK7CH
(TECHNICAL	Mr. A. Morrisby	VK7MY	
(DISTRIBUTION	Mr. T. Allen	VK7AL, Mr. T. Connor	VK7CT

BULLETIN

The amount of work and time entailed in getting the Bulletin out each month is considerable. Firstly the notes have to be collected, stencils cut, typing wrappers to be organised, duplicating to be arranged and copies collected when done, pages stapled, circular wrapped and finally posted. Our worthy Secretary has done a mighty job in this regard in the past when you consider that about 180 circulars are despatched. In order to ease the work it has now been spread over several members of the Council. In future VK7KA and VK7CH will collate the copy and cut the stencils, VK7AL and VK7CT will be responsible for collection, wrapping and posting, while VK7MY will ensure that there is a technical article ready each month.

CONSTITUTION

Copies of the Divisional Constitution have now been duplicated and it is hoped to have them available at the next meeting. Bulk lots will be sent to the Northern and North Western Zones for distribution and any other member requiring a copy may obtain a copy from the Secretary.

V. H. F. NOTES.

The next meeting of the V.H.F. Group will be held on May 16th. This will probably be the annual meeting - so to prevent you being "dubbed in" for some job, come along and defend yourself - not that this will help!!

Results of Athol Johnson Memorial Contest :

Mr. B. Eyre	VK7ZBE
Mr. M. Jenner	VK7ZAV
Mr. A. Morrisby	VK7MY

Bryan really deserved his win as most of his contacts were mobile - seems as though the rules are coming good. Activity in this year's contest left much to be desired - it is expected that the structure of next year's contest can be adjusted to encourage more activity.

Nothing DX-wise worked on 6 mx recently. Some stations heard and a few commercial harmonics. Main reason is probably that no one is listening.

Preparations are now in full force for OSCAR II expected anytime. It seems that the most valuable information can be obtained from doppler shift measurements - beam directions would need to be too precise. Doppler measurements taken over a number of passes enables calculation of slant height, velocity and point of closest approach of the satellite.

R. Emmett, VK7ZAO

FLASH BACK

Delving through old records I find that our honoured Patron Len Crooks VK7BQ was elected to the W. I. A. on 3/9/1925 and to him goes the honour of being a member for the longest period. He was closely followed by Lon Jensen VK7LJ and Bob O'May VK7OM both on 26/11/25 and Jack Milne VK7AG on 4/3/1926. Many a dit and a dah have these old stalwarts sent screaming through the ether since then and it is indeed good to know that they are all still active. May they be spared to pound the brass and/or bash the mike for many years to come.

BULLETIN ITEMS.

We would welcome any items, news, contributions etc. for the bulletin. To ensure inclusion in the next month's issue it must be in the hands of either the Secretary or the Treasurer no later than the third Thursday of each month.

TECHNICAL.

Six Metre Equipment.

Contributed by R. Emmett VK7ZAO

The usual reason offered for not building 6 mx gear is that the allocation is only temporary. However, when required, we now know that we will only be moved to 52 - 54 mc/s which will not affect Interstate operation at all, so a receiver tuning the present band will require no modification. Although we do not intend plugging 6 mx as "official" policy and it is not as ideal for local working as 2 mx, it still has much local and mobile operation, and a real VHF man should be capable of operating on both bands. Furthermore standard components and wiring procedures can be utilized.

(i) Receiver

The best approach is a crystal controlled converter working into a receiver having preferably a 4 mc/s tuning range in the 7 - 14 mc range. A 6 - 9 mc Command receiver is ideal. This will allow it to cover the permanent allocation.

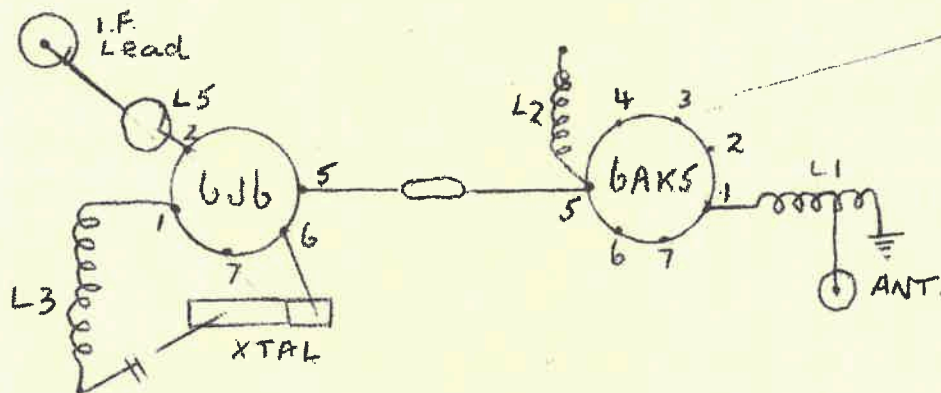
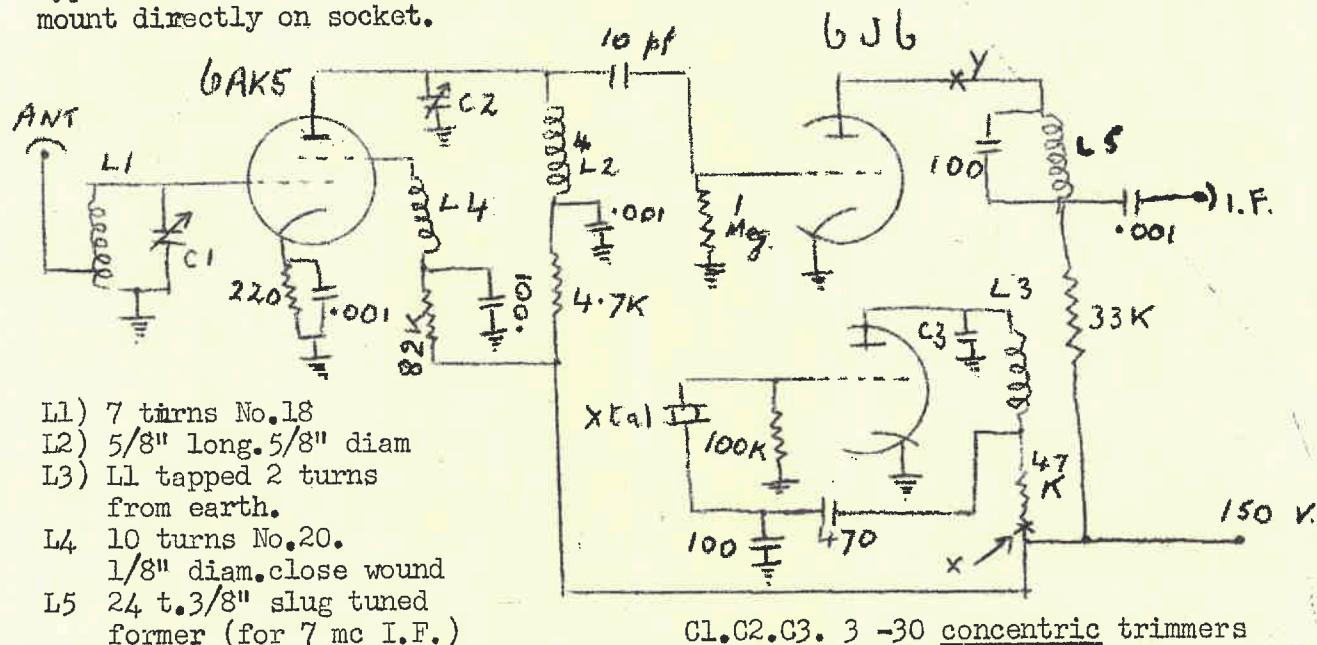
The following circuit is simpler than many commonly used and gives good results.

(a) To minimise trouble in lining up a 42 Mc overtone oscillator is used, these are only £2 each from a Victorian concern (for info. see a VHF Group member) and well worth it as only one coil is needed.

Crystal frequency. Aim to tune from 49.5 mc/s as crystal will oscillate lower in frequency than marked. Thus for a 7 mc/s I.F. upwards, use 42.50 Mc/s crystal.

(b) Valve types. Use a 6J6 as mixer and crystal oscillator as injection is simplified. R.F. stage - 6AK5. 6AG5. 6AM6. 9003 without modifying. 6CB6

Circuit. Layout is fairly non-critical, but keep all coils at right angles - see suggested layout. Use ceramic condensers throughout, especially .001 bypasses. All leads must be short, prune resistor and condenser pigtailed and mount directly on socket.



Suggested layout on 6" x 4" chassis.
This article will be continued next month.

THE JOURNAL OF THE AMERICAN MEDICAL ASSOCIATION
PUBLISHED WEEKLY
Subscription Price, \$5.00 per Annum in Advance
Single Copies, 15 Cents
Entered as Second-Class Matter, May 2, 1917, under Post Office No. 364, at Chicago, Ill., under special rate of Post Office Department. Accepted for mailing at special rate of postage provided for in Act of October 3, 1917. Postage paid at Chicago, Ill., and at additional mailing offices.
Copyright, 1917, by American Medical Association
Published by the American Medical Association, 535 North Dearborn Street, Chicago, Ill.
Acceptance for mailing at special rate of postage provided for in Act of October 3, 1917, authorized on July 10, 1918.
Postmaster: This publication is entered as second-class matter under Post Office No. 364, at Chicago, Ill., under special rate of postage provided for in Act of October 3, 1917. Postage paid at Chicago, Ill., and at additional mailing offices.
Second-Class Postage Paid at Chicago, Ill.