

THE WIRELESS INSTITUTE — OF AUSTRALIA —

TASMANIAN DIVISION

BOX 851J. G.P.O., HOBART.

FEBRUARY 1963

MONTHLY BULLETIN.

Price 6d

President.

Treasurer

Secretary

Mr. T. Allen VK7AL

Mr. C. Harrison VK7CH

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 in the Club Room, 147 Liverpool St., Hobart, on WEDNESDAY, 6th February 1963 at 2000 hours. The lecturer for the evening will be Mr. John Macey VK7ZOO and his subject: "Pulse Modulation for the Amateur, or How to Get 10 Kilowatts from an 807".

NORTHERN ZONE.

The next meeting of the Northern Zone will be held at 73 George Street, Launceston, on FRIDAY, 8th February at 2000 hours. There will be a tape recording obtained from the N.S.W. Division, of a talk by Bob Wilson on "Linear Amplifiers" with 17 slides, and should be very interesting.

A picnic will be held at Greens Beach on SUNDAY, 17th February for members, their families and friends. Make a note of the date and have a day at the beach. Listen to VK7WI broadcasts for further information.

NORTH WESTERN ZONE.

Little has been heard from this Zone recently, but as far as we know the next meeting will be held at Larkins Hall, Ulverstone, on TUESDAY, 4th February at 2000 hours.

COUNCIL MEETING.

MONDAY, 18th February at the residence of Mr. L. Edwards VK7LE, Musgrove St., Lindisfarne, at 2000 hours.

NATIONAL FIELD DAY.

SATURDAY, 9th February 1800 to 2300 hrs. SUNDAY, 10th February
1000 hours to 1600 hours EAST

There has been a considerable increase in portable/mobile activity in VK7 recently, and there is no reason why the Division should not be well represented this year, so let's make a special effort to get as many on the air as possible. You can be portable/mobile anywhere outside a one mile radius of your home. If you cannot get on all the time, why not take the family for a picnic on the Sunday and combine a day out with a day on the air. Intrastate working is permitted, and if between portable stations counts 10 points as against 2 for contacts with fixed stations. Your cooperation can help other contestants, SO BE IN IT. And don't neglect 3.5 mc/s during the day, many useful points have been scored there around midday in previous years. Also remember that a lot of portable stations are crystal controlled, so make a point of listening off your own frequency. And don't neglect to send in a log however few contacts you have. Full details "Amateur Radio" January p.17.

LECTURES AT MEETINGS.

Mr. Len Edwards, our Lecture Organiser, would welcome any suggestions regarding subjects for lectures. If you would like any special subject let Len know and he will do his best to organise it.

STATE OF NEW YORK

IN SENATE

JANUARY 10, 1901

REPORT

OF THE

COMMISSIONERS OF THE LAND OFFICE

FOR THE YEAR 1900

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ATHOL JOHNSTON MEMORIAL CONTEST (by VK7ZAY)

The Athol Johnston Memorial Contest will be held from 0001 hours on the 23rd February to 2359 hours 24th February 1963, to perpetuate the memory of one of VK7s V.H.F. enthusiasts, Athol Johnston, and to encourage V.H.F. activity, particularly mobile and portable.

The Contest rules are as follows :

1. Sections. (a) Transmitting (Telephony only)
(b) Receiving.

An operator may enter both sections, but he must submit two separate logs. Points claimed in each section will be counted as two separate entries.

2. The contest will be for intrastate contacts only, any visitor to VK7 will be welcome to take part if they wish.
3. All bands above and including the 50 mc/s band may be used. Cross band contacts are invalid. Skeds may be arranged for any band.
4. All entrants will operate within the terms of their licence and observe all regulations laid down by the P.M.G. Department.
5. Definitions: The terms used below are defined as follows :
 - (a) Home Station. A station operating from the licensee's home QTH.
 - (b) Portable Station. A station operating a mile or more, as the crow flies, from the licensee's home QTH.
6. Scoring. One point per mile, measured over the shortest distance between the two stations, points claimed on the nearest whole mile. A home station multiplies the score so obtained by one (1) and a portable station by two (2).
7. To qualify for two or more contacts per band with same station, one of the following rules must be observed :
 - (a) Change to another band.
 - (b) In the case of two fixed stations a six hour period must elapse between contacts.
 - (c) One or both stations to move to, or outside, a 5 mile radius from the position of any previous contact.
8. Stations will exchange reports and map references by giving readability, signal strength and a 6 figure map reference, e.g. for a possible contact from Mount Wellington, 59511719.
9. Maps to be used. Lands and Survey, scale $\frac{1}{4}$ " to the mile. The station will give its location by grid reference and it is the responsibility of the operator to give the correct reference. Operators need only purchase the map of the area in which he will be operating. He must enter the map no. in his log.
10. Logs. Standard contest log sheets are to be used, refer to past issues of A.R. for typical formats. Logs are to be in the hands of Mr. G.D!Emden VK7ZAS by 2000 hours on the 20th March 1963.
11. Awards. The winner of the transmitting section will hold the Perpetual Trophy until the result of the next Contest is declared. The winner of each section will receive a Certificate.

The Trophy shall remain the property of the W.I.A. Tasmanian Division and shall be returned to the Institute if the Contest lapses.

FOR SALE.

Set 3 Aegis max. selectivity 455 kc IFT. Two J22 one J23. Brand new 30/- Portable TX RX comprising 6C4 xtal oscillator to 6BW6 final, modulator, carbon mike with press to talk switch, 12AX7 speech amp., 6BW6 Heising modulator. Receiver 6AN7 mixer, two 12BA6 IF Amp., 12AV6 audio amp., 6AM5 output, noise limiter, "S" meter, netting switch, frequency coverage approx. 3.0 to 8 mc/s. Will load into any antenna, with variable tapping on final tank. Housed in case 11" x 10" x 6". Genemotor power supply for operation from 12 V. battery....£19.

Contact Jim Oliver VK7JO, 73 Normanstone Rd., Launceston.

Sounds the goods for anyone wanting to have a go in the National Field Day.

STRAYS.

Mr. Bryan Eyre VK7ZBE has left for Antarctica and hopes to be on the air during his 12 months stay down there and will be signing VK7BE. Keep an ear open for him.

VK3ASZ, the Official Station of the S.W. Zone, Victorian Division, conducts slow morse practice on 3550 kc/s every Sunday, Tuesday and Friday at 2030 hours and is being received very well here.

One of the biggest VK7 round table QSOs on record must surely have been the one that took place on 7040 kc/s on 30/12/62. Stations in the hook up were VK7CT, VK7GV, VK7KA/MM, VK7OM, VK7DK/7, VK7JB, VK7KS, VK7DS, VK7JO, VK7MZ and VK7CH/MM. A most interesting QSO.

NOISE REPORTS.

Don't forget to complete the noise report form included in last month's Bulletin and forward it to Mr. E. Beard VK7EB, 148 Derwent Ave., Lindisfarne, before 28th February. The more reports received the better chance we have of getting some action in cleaning up some of the power leaks that seem to be worrying most everyone. I hear that VK7ZAI has built up some VHF equipment to track down these noises and will be glad to help.

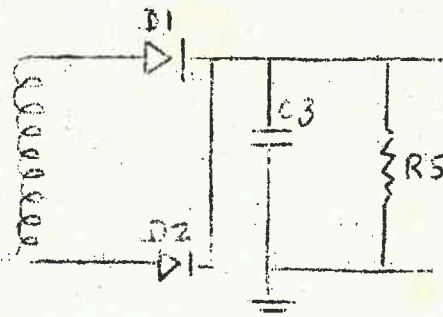
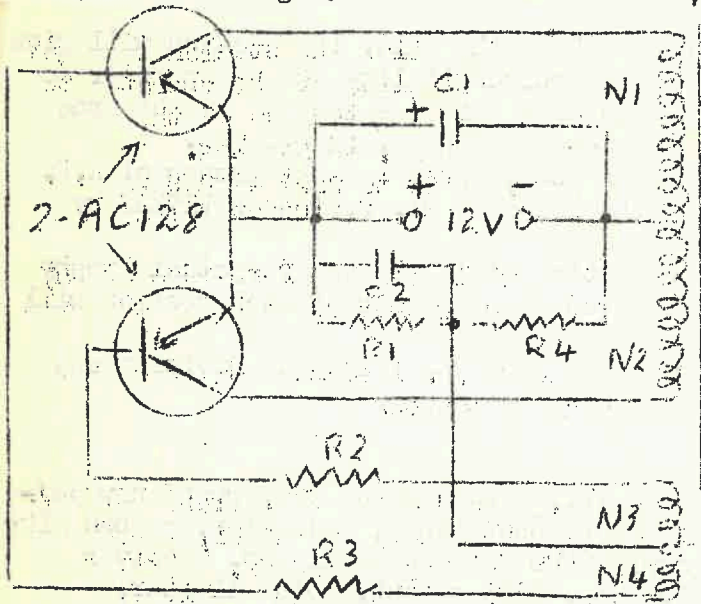
SUBSCRIPTIONS.

A reminder that subscriptions are due and payable on 1st March next. We're giving you plenty of notice this year so that you can start saving now. In the past it has cost the Division several pounds each year for "Amateur Radio" for those who fail to renew. You probably know whether you are going to pay at a later date, but we don't, so in future anyone still unfinancial as at 1st April will be removed from the "Amateur Radio" Circulation List until their subscription is received. This will probably mean missing several issues. In addition it makes unnecessary work for all concerned. Your cooperation in paying promptly this year would be much appreciated.

TECHNICAL.

Suggested Transistorised DC-DC Converter for 128 Sets.

This push-pull circuit with its high efficiency and good regulation should find application in small portable rigs such as the 128, etc. The converter uses the recently introduced 2-AC128 matched audio transistors. Starting and drive conditions for the transistors are controlled by the voltage divider, R1, R4. Transformer winding details are given in the Table. R2 and R3 are included to allow for characteristic spread of transistors. Output approximately 170 volts at 25 ma/. The transformer is constructed with all windings wound on the centre leg of the ferrite "E" core. The windings should be insulated with .005" paper and, in the case of the primary should be bifilar wound to minimise transient voltages. The cores should be firmly clamped together and no air gap is necessary.



Winding	No. of Turns	Enamel Copper Wire
N1	58	25 B & S
N2	58	25 B & S
N3	12	30 B & S
N4	12	30 B & S
N5	500	34 B & S

- R1 100 ohm $\frac{1}{2}$ W.
 R2, R3 220 ohm $\frac{1}{2}$ W.
 R4 4.7 K ohm $\frac{1}{2}$ W.
 C1 40 uf 16 vW.
 C2 1 uf 125V
 C3, 16 uf 300v.
 D1, 2. OA210
 R5 100k ohm
- T1 Ferroxcube ferrite
 "E" Core (56907.13/3A)
 Ferroxcube ferrite
 "I" Core (56010.33/3A)

(Adapted from an article in "Mini watt" Digest, October 1962)

DISPOSALS.

Available to financial members on the usual conditions. Applications on the attached form together with remittance (unless you have a credit balance) to Disposals Committee by February 18th. Items can be inspected at the next meeting, As most is too heavy to conveniently post, it would be appreciated if country orders could be collected when someone comes to Hobart.

<u>Item No.</u>	<u>Description</u>	<u>Price</u>
B3	A further supply of these popular 122 transformers has been received and we offer the set of three, new in sealed boxes, for	.25s/-
	Or separately	
B31	ZAA0616 Microphone tranny	5s/-
B32	ZAA0615 Driver transformer s.e.primary,p.p.secondary for grids of 6N7 plus low impedance secondary for headphones	7s/6d
B33	ZAA0617 Modulation tranny 6N7 Class B modulators to 807 P.A.	£1.
C1	BFO Coils 455 kc/s for 122. New	3s/-
C2	We have been fortunate in getting a quantity of commercial vibrators heavy duty, 9 pin, 100 watt synchronous, 12 volt, and also commercial vibrator transformers, 12/24V. heavy duty, 100 watt multi-tap secondary, "C" Core, and some 100 ma filter chokes. This is beautiful stuff currently used in commercial gear. ALL BRAND NEW. Kit consisting of : (a) Vibrator transformer 90-177 (Sec.tapped about 200-400V) (b) 2 heavy duty vibrators (one for a spare) (c) 9 pin socket (d) 100ma filter choke The lot	£2-5s/-
C3	770170 Vibrator transformers 6/12 volt ("C" cores) believed suitable for transistor power supply windings. Secondary multi-tapped about 200-400v. Similar to 90-177 but lighter duty Brand new	7s/6d
C4	V5211 6v. synschronous vibrators. New, boxed	.6s/-

NOMINATION FORM - COUNCIL

We, the undersigned, bring Full Members of the Wireless Institute of Australia, Tasmanian Division, hereby nominate Mr. _____ for the position of Divisional Councillor for the year 1963/64.

Proposed by _____ Seconded by _____

I agree to accept the above nomination and, if elected, to act in the above capacity.

Date _____ (Signature) _____

DISPOSALS.

2/63

The Secretary,
Disposals Committee,
Wireless Institute of Australia,
Box 851J, G.P.O.
Hobart.

<u>Item No.</u>	<u>Items applied for</u>	<u>Quantity</u>	<u>Cost</u>
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Cash/Cheque/M.O./P.N. for £ enclosed.

I certify that these items are for my own use and not for resale.

Address Name

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