

THE WIRELESS INSTITUTE OF AUSTRALIA

TASMANIAN DIVISION

SEPTEMBER 1965.

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

MONTHLY BULLETIN

PRICE 6d.

<u>PRESIDENT:</u>	Mr. T. Allen	<u>TREASURER:</u>	Mr. V.F. Dore	<u>SECRETARY:</u>	Mr. K. Spiegel
	VK7AL		VK7JD		VK7KS

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

EDITORIAL

Another Remembrance Day Contest has passed by and all Divisions will be weighing up the evidence to determine the winner.

To the younger Amateur who did not participate in the Second World War, to generalise, would not view the R.D. in the same light as one of the older fraternity who did. I would venture to say that the former would however, on contemplation, feel by observation that this Contest has something which depicts that part of the " Amateur Code " which says the Amateur is Gentlemanly. To listen to the majority of the contest - ants, who, under adverse listening conditions, go to no end of bother to ensure the other chap has the necessary information. I know that the cynics will say, " Of course he will, to get the score " however, to listen further one hears acknowledgement of patience etc. plus chit chat which would denote that a high score is not everything.

The point of the matter is that if the R.D. does teach us to be friendly and considerate of others, then those who gave their lives did not in vain, let us and others prosper from these good manners - Lest WE Forget.

Meetings for September

September 7 North Western Zone; Lakin's Hall, Ulverstone. 2000 hours

September 8 Headquarters General Meeting 147 Liverpool St Hobart 2000 hours

John Moyle Memorial National Field Day Contest Results

Award Winners

Section A (Portable Phone)

VK1SB	S.F. Brown	484 points
VK2ASZ	R.L. Lear	583 points
VK3ZRY	R.L. Harrison	280 "
VK4KZ	R.M. Feenaghty	925 "
VK5TH	T. Mitchell	186 "
VK6MM	M.J. McDonald	162 "
VK9XI	D. Reed	104 "

SECTION B (Portable C.W.)

VK1SB	S.E. Brown	152 "
VK2JM	J.A. Mead	130 "
VK5ZF	I.L. O'Donnell	318 "
VK9XI	D. Reed	24 "

SECTION C (Portable Multi - Op)

VK1ACA	Canberra Radio Society	901 "
VK2BWI	V.H.F. & T.V. Group of the N.S.W. Division of the W.I.A.	1176 "
VK3AWI	W.I.C.E.N. Station of VK3	1648 "
VK5TM	R.D. Martin	800 "
VK6VF	West Aust.' VHF Group Inc.	410 "

SECTION D (Fixed Stations)

VK1LF	L.B. Fisher	195 "
VK2 APK	D.F. Kiesewetter	750 "
VK3 APJ	P.J. Dettmann	575 "
VK4LT	A.E. Carter	685 "
VK5RG	R.S. Gurr	255 "
VK7SM	S.G. Moore	775 "

TECHNICAL

To return to the fine article submitted by Leigh Gunther - may I hastily assure you that when I refer to this topic as "The who done it" I am referring to the murdered diode, not to any person or persons concerned with the publication.

HALF WAVE VS. FULL WAVE continued

Transient suppression (note that this does not = elimination) can be accomplished by putting a $0.01 \mu\text{F} / 600\text{V}$ condenser across primary if a full wave circuit, and that plus a $0.1 \mu\text{F}$ condenser across LT secondary (or $0.001 \mu\text{F}$ across HT, etc) if half wave. It is true that half wave is often used on LT circuits, for which an OA210 or even a BY100 is employed as rectifier, and safety factor is more than adequate. But these considerations are important if using, say an OA610 on LT, or the HT diodes on HT.

Where appreciable power is to be drawn, full wave gives lower ripple, Better regulation, more power output, cheaper transformer and condensers can be used, output voltage is usually higher, and peak currents are lower for a given average d.c. output. This latter point ensures longer rectifier and filter condenser life. In the case of an SCR, it means that a 4.7 Amp' SCR can handle 4.7 Amps if it is fed a.c. or half wave d.c., but about 6.2 Amps if fed full wave pulsating d.c. In the case of a battery charger, a bridge rectifier configuration allows a higher charging rate for a given transformer, and the lower peak current is much better for diodes and battery.

A half wave voltage doubler has all of the evils of any half wave system, but does have the advantage that any number of stages can be cascaded to give any desired multiplication factor. A full wave voltage doubler has high efficiency, as well as the various advantages of full wave mentioned above. Voltage multipliers have the advantage that LT transformers are often more efficient than HT ones. The voltage doubler (or any multiplier), however, suffers from the fact that the condensers are subject to high charging currents, and must be in good condition, of high quality, and having high capacity if an adequate job is to be done. This fact tends to prevent the voltage multiplier from being the best configuration, but within its limitations it is as good as a full wave bridge. For maximum power from a given transformer, bridge is simplest and best, even if you have to neglect the centre tap!

H A M F E S T.

A CORDIAL INVITATION IS EXTENDED TO ALL XYL's YL's and HARMONICS TO THE ONCOMING HAMFEST. COUNCIL AND MEMBERS OF THE DIVISION WANT THIS TO BE AS MUCH YOUR OUTING AS THE OM's.

EVERYONE IS TO BE CATERED FOR - WE DONT WANT ANYONE TO FEEL LEFT OUT.
COME ALONG AND MAKE THIS THE BEST OF ALL HAMFESTS.

GAMES? COMPETITIONS AND PRIZES - LOLLIES FOR THE KIDS - IT IS A MUST -

A LARGE ATTENDANCE WILL REALLY MAKE IT. IF THE OM IS DIFFICULT - TWIST HIS ARM -
AFTER ALL YOU LET HIM GO TO THE MEETINGS SO WHY SHOULDN'T THE LADIES HAVE A CHANCE
TO DERIVE SOME ENJOYMENT FROM THEIR OM's HOBBY.

NOVEMBER 27th and 28th. THE DATE.

Thanks to VK7MX for his fine list and suggestions to help make this the best HAMFEST.
Max's list caters for everything, Toilet Facilities; First Aid; Boiling Water; Cricket Gear
yes even a Rolling Pin (I have been given a few tips about throwing these Mum so come along
and see me at the Hamfest - I bet I can fix it so you can hit the brute - no fee.)
Next month I hope to publish a full programme, any more suggestions will be most welcome -
I would sincerely like to hear from the Northern Zone - Let us make it a truly Divisional
function - more next month.

DONT FORGET TO GET YOUR LOG AWAY FOR THE R.D. REMEMBER TIMES IN G.M.T.

See you all next month