

THE WIRELESS INSTITUTE OF AUSTRALIA

TASMANIAN DIVISION

OCTOBER 1955

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

MONTHLY BULLETIN

PRICE 6d.

PRESIDENT: Mr. T. Allen
VK7AL

TREASURER: Mr. V.F. Dore
VK7JD

SECRETARY: Mr. K. Spiegel
VK7KS

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

EDITORIAL

I have often enquired from members of long standing in the Institute of the personality of the average Amateur. To generalise, what does he want from the Institute? Why is he like he is? What is he prepared to do himself?

Perhaps some may call me foolish or even optimistic when I say I think I can generalise in the answer.

Besides being a person with a practical bend the Amateur is also a dreamer - how many of us have wistfully wished we could have such and such a Transceiver, or work such and such a country, and so on - then such things as finance or other commitments throw a spanner in the works and we come back to reality. Sometimes in the case of the Institute it falls on the shoulders of your Council to face the reality, to make the decision, whether favourable or not - in all cases the decision reached has to be consideration to the whole and not the individual - hence the old saying "One cant satisfy all the people etc."

Being a dreamer the Amateur has his frustrating moments, as also does Council. He might grow a little cold on that special project or even the hobby as a whole - only to break forth with renewed gusto at a later date. Individually this does not matter - with Council, being collective, this does not happen as everyone does not get the "mood" at the same time.

Lastly, as in all organisations, there are the workers and the members - the ratio is usually alarming. When a worker drops out a small miracle happens - another is found, no doubt if all the workers dropped out a similar number would still be found. No man is indispensable - please remember that, also, if a few more "miracles" happened how much lighter the load would be on the workers.

Ted VK7EB

MEETINGS FOR OCTOBER

October 5	North Western Zone; Lakins Hall, Ulverstone. 2000 hours.
6	Headquarters General Meeting. 147 Liverpool St., Hobart. 2000 hours.
8	Northern Zone, Adult Education Centre, 51 York St., Launceston. 2000 hrs.
20	Headquarters V. H. F. Group. 2000 hours
18	Council Meeting. 1900

LECTURE

The lecture for the General Meeting for October at Headquarters on the 6th. October will be " Electronics in Medical Research ". Your lecturer will be Mr Rod Sutherland of the Cardiac Research Centre. Dont miss this enlightening talk, for two reasons - firstly the technical aspect, secondly to help one appreciate the wonderful job these people are doing in the publics interest.

JAMBOREE OF THE AIR :

Dont forget it - Dont leave it - Dont miss it.

Like everything else - it is what YOU make it. Probably one of the best publicity outlets we have - If you are interested in your hobby here is one way you can justify its existence. Help the Scouts - they can help you.

OCTOBER 16th and 17th.

VK / ZL OCEANIA CONTEST

Phone Section - weekend 2nd. and 3rd. October

C.W. Section - weekend 9th. and 10th. October

Consult your copy of August Amateur Radio for full details - and P -L-E-A-S-E dont forget to submit your LOG - DO YOU DIG ME DAD ?

HAMFEST

Either Hon. Sec has been overtaxed with mail offering suggestions to make this the main item for November OR he hasnt received any since VK7MX.

Well, I guess that is something - it could indicate that everyone is perfectly happy with things as they are - when you read the Editorial it isnt a bad achievement is it ? To satisfy all the people I mean - Full marks to the Organisers.

FOR SALE

The last of those fine pieces of equipment as advertised in a previous Bulletin.

ALLIED KNIGHT KIT (USA) MODEL 8 $\frac{1}{2}$ YU 144 WIDE BAND OSCILLOSCOPE.

This instrumen has hardly been used - in showroom condition - a real good buy for the professional or the discerning amateur. The price suggested would just about cover the parts. I would suggest this is the best piece of equipment the Division has had to sell to date.

REQUEST

Would all VK7s please leave 3590 kc clear for testing, making adjustments etc. This frequency, by gentlemens agreement is a mobile frequency hence, during the day time it does not give the mobile boys a chance - thank you.

the person who places a carrier on the air in the Hobart area - without modulation is heading for trouble in big leaps. Firstly there is a complete disregard for monitoring on the frequency before coming on. Secondly, this person is breaking two of the regulations

S. S. B. CORNER

Talk power does not refer to a hen party (no correspondence will be entered into - Ed.)

TECHNICAL

This episode concludes the very educational article submitted by Leigh - thank you very much OM. - I really like 'em when there are no circuit diagrams. Hope to hear you on the air soon with a down under call sign.

Half Wave Vs Full Wave continued:

The following relationships summarise some important parameters of rectifier circuit. The figures given are for no - load conditions, and condenser input filter. Under load, of course, output will drop, depending on filter and load impedance, and on valve or diode or transformer resistance.

Relative peak secondary voltage	Configuration	'Nominal' Relative peak reverse voltage across each rectifier (excluding transients)	Relative dc output.	XX
1.0	Half wave	2.0	1.0	
1.0 (whole sec.)	FW centre tap	1.0	0.5	
1.0	FW Bridge	1.0	1.0	
1.0	FW doubler	2.0	2.0	
1.0	FW quadrupler	2.0	4.0	
1.0	Half Wave	2.0	1.0	
2.0	Full Wave C.T.	2.0	1.0	
1.0	F.W. Bridge	1.0	1.0	
0.5	FW Doubler	1.0	1.0	
0.25	FW quadrupler	0.5	1.0	

XX As a limit under heavy load, this reduces to 0.54 of the value shown for half wave, or 0.707 of the value shown for full wave. Obviously the full wave configuration has better voltage regulation factor for a given size of filter.

I have arranged the data in two different ways to emphasize the distinct characteristics of each circuit, relative to constant input or constant output. You can see that for the same secondary voltage the half wave or doubler have twice the reverse voltage across each rectifier, but for the same d.c. output voltage, the bridge or doubler have half the PIV of the centre - tap or half wave. This relationship has been a source of considerable confusion, not least amongst experienced electronics men. I sadly confess to having been a victim myself, but I am comforted by the fact that a certain (nameless) organisation has built quite a number of voltage doublers to be used on a certain continent, in which a relative PIV of 1.0 was assumed. Which only goes to show that the ~~XXXX~~ OA210 can be a pretty good diode.

I wish to thank Tony Ohsberg and Ian Newman for reading this article and making helpful suggestions. We thank them along with you Leigh for a very fine article - ED.

FINIS THE END - THATS ALL

The Monthly Bulletin of the Wireless Institute of Australia
October 1965. Tasmanian Division.

-V.H.F. Notes.

There are a number of occurrences in the last week or so which are of interest- (I hope?)

Firstly, we have two new callsigns in the Southern zone after the issuing of the July examination results, (which were very late) these being VE7ZLD: David Marsland and VK7ZBJ: Barry Riddell who have been very fortunate because the V.H.F. activity has been extremely high of late. As at the time of writing there were approximately twenty five stations, thirteen of which are mobiles, active on the nett frequency of 53:035Mc/s.

This increased activity has brought to notice that there are at least two new communication paths available, one down to Huonville where 7TA and 7ZLW have been worked with quite good signals being evident, on one occasion 7ZAP mobile in Newtown worked 7ZLW with 5-8 signals each way, on that same evening he was also heard in other parts of the City but due to Q.R.N. on the band in these areas two way contacts were not made by these chaps. The other opening was towards Port Arthur where Charles 7XS heard 7ZAI in contact with a local station at quite good strength, but due to local QRM (namely two new HAMS) in Dave's shack two way communications were not established, but no doubt it will be proved at a later date.

NORTHERN ZONE

My spies tell there has been acute lack of activity on 2M Up there so this could account for the nil amount of news coming down our way, so let's hear from you soon eh!, well that's all for this month chaps, maybe we'll have some more next month if we are kept informed.

73's 7ZBJ.