

THE WIRELESS INSTITUTE — OF AUSTRALIA —

TASMANIAN DIVISION

Box 851J. G.P.O., Hobart.

October 1962

Price 6d.

PRESIDENT

Mt. 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 monthly meeting of the Division will be held at the Club Room, 147 Liverpool St., Hobart, on WEDNESDAY, 3rd. October at 2000 hours.

The lecturer for the evening will be Mr. John Greenhill of the University of Tasmania, who will give a talk entitled "Telemetry". Visitors will be very welcome of course.

NORTHERN ZONE.

The next meeting will be held on FRIDAY, 12th October at the new meeting place, 73 George St., Launceston, at 2000 hours. A lecture is being arranged.

NORTH WESTERN ZONE.

The next meeting will be on TUESDAY, 2nd. October at Larkins Hall, Ulverstone, at 2000 hours.

COUNCIL MEETING

The next Council Meeting is on MONDAY, 15th October at the residence of Mr. T. Connor VK7CT.

JAMBOREE OF THE AIR.

A reminder that this will take place from 1000 hours SATURDAY, 20th. October to 1000 hours MONDAY, 22nd October. Arrangements have been made for the following scout groups to participate :

1st New Town	From the home of Mr. J. Oliver VK7JO
1st. Mt. Stuart	From the W.I.A. Rooms, 147 Liverpool St. VK7WI
8th. Hobart	From the home of Mr. I. Nichols VK7ZZ
1st. Derwent	From the home of Mr. K. Spiegel VK7KS
13th. Hobart	From The Lea. VK7BS operated by Mr. J. Batchler VK7JB and Mr. E. Cruise VK7EJ
Bowen District	From camp at Sorell with Mr. K. Johnston VK7RX.

Mr. E. Beard VK7EB will provide a station to operate from Cambridge Airport in conjunction with the 16th Hobart (Air Scouts) field day on Saturday 20th October and then as required at VK7WI. No definite information is yet available as to the number of groups participating in the North. Where practicable VHF equipment will be used to provide a link between southern stations.

WEEKLY BROADCAST VK7WI

Don't forget that this is rebroadcast by VK7CT on 3672 kc/s each Sunday. If you are having trouble in receiving the 7146 transmission try 3.5. Reception throughout the State is quite good at times.

P. M. G. HANDBOOK.

I understand that the latest edition of the "Handbook for Operators of Radio Stations in the Amateur Service" is now available from the Radio Branch at 3s/- a copy.

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LIBRARY.

At the last General Meeting a committee consisting of Mr. D. Watson VK7DW, E. Beard VK7EB and P. Corby VK7ZAX was appointed to reorganise our library. They have already made a start on sorting out the books and magazines on hand and in renovating a book case. Council has allocated a sum from the Equipment Account to purchase a few more modern books, and they would appreciate any donations of books, magazines, etc., also handbooks on surplus sets.

NEW MEMBERS

The following new members have been elected : Messrs. G. C. Johnston, G. J. Howard, John Fowler and Robert Reid.

FOR SALE

Class C Wavemeter in original condition. Price £10-12- 6d. See Mr. D. H. Clifford VK7DC, 4 Shasta Ave., (off Risdon Rd.), New Town.

WANTED

Ted Beard wants a 200 pf double spaced capacitor ex Command 744 9 mc transmitter.

V. H. F. NOTES by N. Fisher VK7ZEE

David 7ZAI and Danny 7ZDM are still at Kelso but nothing has been heard of them although skeds have been kept every weekend at 1730 hours (Nearly had kittens when I was listening carefully and heard my callsign come out of the noise - it was only 7ZAO being received on the back of my beam!). Sunday 16th provided some activity on 2 metres with 7ZEE and 7ZAO/Q looking north for rumoured 7DK type signals. Nothing was heard but we would be pleased to keep skeds for any experiments you want to carry out Den. Just let us know the time. Dave Berry has become the third Hobart 2 metre station to be heard at Catlands. He put up a ? ? (can't read your writing Nev.) 3 el. beam for the effort and a two way contact will be possible when a long awaited 13 el. beam is commissioned at my QTH. It is quite within the realms of possibility to get the 40 miles as I can hear 7ZAO/Q at 5/7 when they are running 8 watts in. Take note you fellow low power stations.

Nothing much is doing on 6 metres. Two converters are in the "thinking about" stage and Wilf is in the market for some high wattage cathode resistors. It's not too early (or late) to start thinking about mobile/portable equipment for the Athol Johnson Memorial Contest and seeing I have decided who is going to win it this year you had better make a move.

Stations lending gear for the Jamboree link are requested to check all is ship-shape in readiness.

The next meeting of this Group is on WEDNESDAY, 17th October.

CONVENTION GET TOGETHER.

It has been suggested that we have a hamfest at Campbell Town during November and VK7EJ has been appointed to go into the matter and report. This location was selected as being fairly central for the ham population. Nothing definite yet but he would appreciate any ideas or suggestions and an indication of how many might attend.

INSTITUTE BOX NUMBER.

We still have occasional correspondence sent to Box 371B, G.P.O., Hobart, which often causes a delay in receipt by the Secretary. Again please note that this box number should be used for the QSL Bureau ONLY. Our Divisional box number is on the top of the front page of every Bulletin.

BULLETIN.

News seems to be a little light on this month; even the Technical Editor was too busy moving his QTH to provide a technical article! Recent appeals for articles, comments, news, criticism etc. has fallen on deaf ears and not a thing has been received. With a membership of over 150 surely someone can occasionally give us a hand. It's quite a job finding enough items to fill even two pages. One contribution from each member would provide material for years ! SO WHAT ABOUT DOING SOMETHING NOW.

1968

1. The first part of the paper is devoted to a discussion of the general properties of the system. It is shown that the system is stable and that the solution is unique. The second part of the paper is devoted to a discussion of the asymptotic behavior of the system. It is shown that the system converges to a steady state and that the convergence is exponential.

2. The third part of the paper is devoted to a discussion of the numerical solution of the system. It is shown that the system can be solved numerically and that the numerical solution is accurate.

3. The fourth part of the paper is devoted to a discussion of the physical interpretation of the results. It is shown that the results are in good agreement with the experimental data.

4. The fifth part of the paper is devoted to a discussion of the conclusions. It is shown that the system is stable and that the solution is unique.

5. The sixth part of the paper is devoted to a discussion of the future work. It is shown that the system can be extended to higher dimensions and that the results can be generalized to other systems.

6. The seventh part of the paper is devoted to a discussion of the references. It is shown that the results are in good agreement with the experimental data.

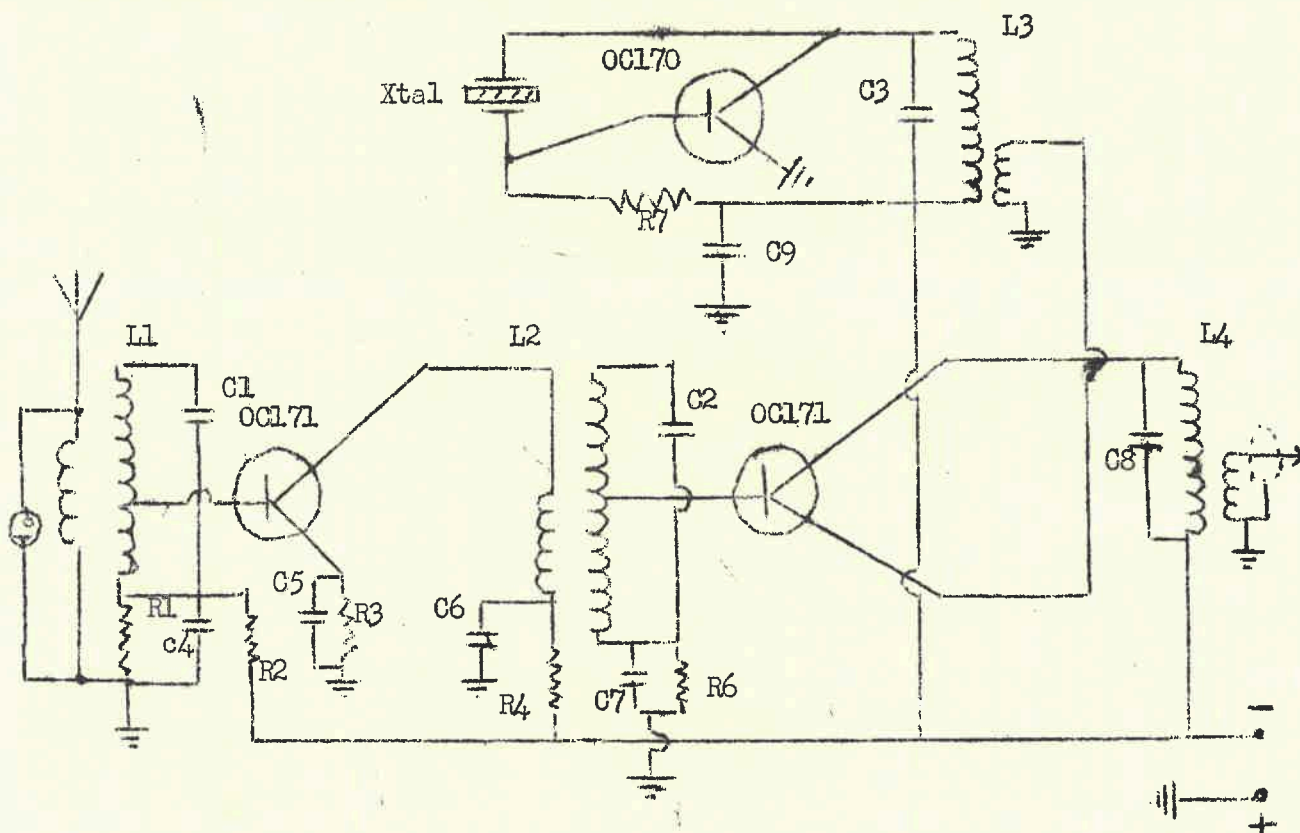
7. The eighth part of the paper is devoted to a discussion of the acknowledgments. It is shown that the results are in good agreement with the experimental data.

8. The ninth part of the paper is devoted to a discussion of the appendix. It is shown that the results are in good agreement with the experimental data.

9. The tenth part of the paper is devoted to a discussion of the bibliography. It is shown that the results are in good agreement with the experimental data.

TECHNICAL.

TRANSISTORISED CONVERTER by S. Molen VK2SG (NSW Division Bulletin May 1962)



R1	8200
R2	47000
R3	2700
R4	1000
R5	8200
R7	500,000
C4	.04 Mfd
C5	.04 Mfd
C6	.04 Mfd
C7	.04 Mfd
C8	240 MMF
C9	5,000 MMF

Band	Coil Details	C1	C3	Xtal
14 Mc	L1/L2 23 turns No.24 enam. tap at 6th turn 5 turns No.24 enam. L3 26 turns No.24 enam. 3 turns No.24	15	15	4450 Kc 3rd.harm.
7 Mc	L1/L2 35 turns No.28 enam. tap at 10th turn 6 turns No.28 enam. L3 40 turns No.28 enam. 4 turns No.28	33	33	6350 Kc
3.5 Mc	L1/L2 58 turns No.40 enam. tap at 16th turn 8 turns No.33 enam. L3 80 turns No.33 enam. 5 turns No.35 L4 standard B/cast arial coil.	40	40	2850 Kc

$\frac{d}{dt} \left(\frac{1}{\sqrt{1-v^2/c^2}} \right) = \frac{v}{c^2} \frac{dv}{dt}$

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