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# QRP

No: 21

JUNE 1951

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LOW POWER RADIO  
RESEARCH and NEWS

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“ Q . R . P ”

No 21

RESEARCH and NEWS

JUNE 1951

EDITORIAL.

This month's mail-bag has produced an even greater variety of gen than usual and, while I have been unable to send personal answers to anything like all of these welcome letters, I do want you to know that every one of them have received due attention and are most heartily appreciated.

There is one in particular from which I want to quote. It is from Ernest Ashby, G3HCW, of Pontefract. He says:--

"...I must admit that originally I was QRP because of circumstances, but now I am a confirmed adict. It is very nice to be able to compare notes with other QRP men and I really look forward to the mag every month. The exploits of the "big" men like G02CNC and G5QI certainly show us lesser "bods" the way round. It is really amazing the consistent way they reel off their big scores. All we fellows can do is to "take it on the chin" and tag along behind."

"I also deplore the apparent loss of interest by the SWLs of the Group. I can assure them that I look forward to their exploits as much as those of the Tx men; after all, most Tx men were originally keen SWLs. So come on OCs, let's have all the gen as we used to do. I will willingly give up all the precious space I occupy if necessary. Cheerio, 73 and bcnu, ERNEST (G3HCW)".

Now it is most encouraging to know that our mag is really appreciated in this way, but it gives me even more pleasure to quote

21/2

actual evidence that our Tx members are really interested in the activities of our SWLs. 3HCW's is not the only letter that I have had in just this tone and it does go to prove that, from their point of view, we are one solid group and not, as some SWLs seem to feel, one body of Tx men and another body of Rx enthusiasts vying for predominance.

Six of our keenest SWLs passed the last RAE, so I really do think that the few who have expressed regret at the inclusion of Tx gen in the mag should try and adopt a broader view, bearing in mind that they, too, may be getting a ticket before long.

73, OMs -- the sun is shining at last and I am going /P with the typewriter out in the garden before winter sets in tomorrow.

Sincerely,



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GROUP CONTEST AREAS.

For some time I have been feeling that the magnificent growth of our 21 month old Group has reached the stage where we could introduce a system of sub-divisions for the purpose of contests etc:. The final factor which clinched the idea was the clause in the rules of the forthcoming ISWL Field Day which restricted the number of receivers to two per group. Something had to be done about that!

There are an awful lot of snags in the problem of deviding the Group into Contest Areas. Many are impossible to overcome and I feel pretty sure that, despite the amount of thought I have given the matter, there will be a few teething troubles to sort out; so don't just grouse and put up with it, OMs -- if you see anything that can be improved let me know and you can be sure I will take action

First, however, let me stress that THE GROUP WILL REMAIN, AS

IN THE PAST, ONE INTEGRAL BODY, both in spirit and in practice. The idea of area division comes into play ONLY when circumstances, such as this Field Day contest, warrant it.

It does occur to me, though, that we might have some jolly good fun among ourselves, running a few private inter-area QRP contests. And they might provide a lot of useful gen on local condx.

Now, on page 4, I have set out the AREA LIST which I have drawn up after several false starts. Perhaps, by the time the Group is 42 months old, we may be able to work on individual county divisions but at present our numbers are hardly sufficient for that. A few of the other points which had to be considered were the size of each area, the type of territory involved, the number of big towns included and, of course, the number of members resident there. And then there were one or two fancy problems such as the fact that, in Bristol, the county boundary runs through the city -- so that settled the Gloucester/Somerset area! And the Isle of Wight is on it's own because the natives (including your editor who was born and dragged up there) still cannot agree that it has any connection with Hampshire!

Get out your map and have a run through the list. You will find it interesting, apart from the area set-up, as it gives the first complete picture of Group membership position up to June 1st.

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### I S W L    FIELD DAY.

The first opportunity to put the Group Contest Areas to a practical test arises on JULY 29th. An outline of the rules of the contest were published in our last issue and will be found in complete detail in the June SWN. We can now interpret Rule 3, which officially limits the number of receivers per group to two, to mean so far as this Group is concerned that two receivers can operate

AREA No.	GROUP CONTEST AREA	MEMBERSHIP		
		Tx.	Rx.	TOTAL
1.	Cornwall and Devon	1	6	7
2.	Gloucester and Somerset	4	5	9
3.	Hants and Dorset	3	8	11
4.	Isle of Wight	-	2	2
5.	Wiltshire	1	3	4
6.	Bucks, Berks and Oxon	1	2	3
7.	Surrey	2	10	12
8.	Kent and Sussex	2	11	13
9.	Middlesex, Hertford and Essex	7	10	17
10.	London	8	19	27
11.	Hereford and Shropshire	-	-	-
12.	Wales	5	1	6
13.	Stafford, Worcester and Warwick	-	16	16
14.	Northants, Leicester and Rutland	1	6	7
15.	Bedford, Huntingdon and Cambridge	-	2	2
16.	Suffolk and Norfolk	2	8	10
17.	Lincoln	-	3	3
18.	Nottingham and Derby	-	2	2
20.	Cheshire	1	5	6
21.	Lancashire	2	9	11
22.	Yorkshire	2	13	15
23.	Northumberland and Durham	1	4	5
24.	Scotland	1	14	15
25.	Northern Ireland	1	-	1
26.	Channel Islands	1	-	1
27.	Overseas:- Gibraltar, Denmark, Holland, Germany, Canada, USA, and Saudi Arabia	5	2	9
		47	168	215

in any one of the Group Contest Areas detailed in the list.

All we need now are volunteers. Will you let me know if you will be able to enter? I would like to hear from you as soon as possible so that I can apply for the appropriate contest forms and let you have confirmation of your entry in plenty of time.

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### Tx ACTIVITY and NEWS.

G3HCW (Pontefract) has completed still further modifications to the Tx. The latest improvements include placing the xtal in an electron-coupled Colpitts circuit and the results have proved very satisfactory indeed. With one watt on 7 Mc/s all the usual contacts have been made without difficulty and less usual ones were YU2AEF, VE1GU (who reported 349), HA5TA and a KZ5 though this contact failed under heavy QRM.

G02GNC (Jersey) has had a report from Eric Trebilcock in VK. Monty was in QSO with a DL6 (one watt on 7) and Eric gave him 559. Monty remarks "Just think what I missed!" Much more notable, however, is the fact that Monty and G8IL have accomplished the first G/GC contact on 145 Mc/s. It was not QRP, of course (60 watts at the GC end), but you deserve the heartiest congratulations none the less for that, Monty. Attention is now being turned to QRP gear on 430, so we may be hearing some more important news shortly. Monty reports hearing his Trantest rival, G5QI, one day on 3.5 at 559.

G2AJU (Ipswich) sends in a Trantest Top Band score that proves that 1.8 can still hold it's own even in May with a half watt sig off an aerial that is only 20 ft high owing to a broken halyard. Jack says that GMSDEB (Moray Firth) was using 900 ft of antenna at up to 75 ft high on the occasion of their contact and gave 569 to AJU's half watt sig. Pressure of work has forced Jack to give up his RSGB Slow Morse Transmissions at least during the summer.



21/6

GSEDW (Rayleigh, Essex) has been concentrating on the Two-watt Panel rather than on Trantest this month. Peter thinks that the former is a greater test of all round QRP efficiency as it means a constant effort to work more countries on more bands and greater Dx. He had a nice QSO with G3GZA on 7 Mc/s during the month -- 2 watts at both ends giving S7 and S8 respectively.

G3CED (Broadstairs) has started modifications on his QRP Tx. The circuit will remain as described in the April 1950 "Q R P" with the exception of a change to screen keying, but the layout is being revised to reduce RF losses to a minimum. George collected his first LU contact this month (LU5NA) who reported him 349 on 20 metres (28.5, 51) and has also worked several W's and EK1s etc.

OZ6U (Nyborg, Denmark) has constructed a one-valve Tx since his return from this country and is concentrating on QRP transmissions on 3520 Kc/s. His antenna is a 20 metre 1/3 Hertz (Windom) indoors. The Rx is a home made SH4, and he may be heard every morning from 0645 to 0700 BST and on some evenings from 2215 to 2300 BST calling "CQRP". QRP at both ends has forced the cancellation of skeds with G3CED. Peter particularly asks me to QSP 73 to all members of the Group.

PA0XU (Rotterdam) has returned to QRP after several months of fone transmissions on 75 watts, 3.5 and 7 Mc/s. This is the first time in 13 years that Evert has forsaken CW but, he says, the fever is over now. The results were good but he likes CW better. A point of interest to other Tx members is the fact that Evert never calls "CQ". His practice is to always answer a station, or, better still, to come back to a station which has definitely finished a QSO. Evert has made a particular study of operating manners on the air for many years and has found that manners improve with decreasing power. His return to QRP has produced his best QSO to date -- W1CPT on 14 Mc/s, solid for a half hour from 1010 GMT on 21/5/51, with only two watts throughout, the report being 559. The mileage was 3400!

G3HON (Bristol) is, as mentioned last month, converting an 1196 Rx to cover Top Band. He was previously using a battery O-V-1. The Tx is a Pierse CO 6J5 to an 807 PA, frequencies being 3580, 3520, 7040 and 7020 Kc/s, and the antenna a 36ft long wire end fed. Bob is particularly anxious to receive reports on his 3.5 transmissions and will QSL every USEFUL report.

G3GZA (Bristol) points out that I misquoted last month in speaking of his 6SN7/TTL rig as a 2 metre job. The rig for two, he says, will come later. Dudley has had a fb QSO with G3EDW, his first contact with a QRP member. He and 3HON have contrived a really first class bit of cooperation for Field Day competitors as will be seen in the paragraph at the end of this column.

G3HKP (Darwen, Lancs) is still the same Tx (EC32) but it is now tri-tet to enable him to get on 14 Mc/s. He says that he has spent hours calling and answering CQs on this band but so far has not got out at all. James points out that, from other member's lists, it appears that only one seems to get out on twenty. "What's the secret?" he asks. Well, it looks as if PAØXE has found that this month in his contact with WLOPT, and I hope that in next month's "Q R P" we shall describe in detail the rig that he used.

G2HKQ (Poole) has been so busy that radio has had to be forgotten for some time now, but hopes to be "around" again shortly. We are certainly looking forward to hearing from you more often, Arthur.

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### ONE TARGET FOR THE FIELD DAY.

G3GZA/P and G3HON/P will be at Trowbridge in Wiltshire during the ISWL Field Day and will put out transmissions specially for the contest on the following skeds:-- Saturday evening, 80 and 160 metres, Sunday up to 1100 BST, 80 and 160 metres phone; thereafter on 160 metres CW until 1500 BST, then 80 metres until about 1600.



21/8

During these sessions they will be looking particularly for QRP Group members and they will appreciate SWL reports, all of which will be QSL'd. Really comprehensive reports will be rewarded with photographs of the site showing the actual /P rig and layout. The Tx will be a battery VFO/PA and the Rx a battery SH.

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Rx ACTIVITY AND NEWS.

MIKE WASSFELL (Birmingham) has now completed his station reconstruction and has an 18 set for each amateur band except 3,5 and two metres. He has spent a period on forty listening especially for QRP calls but so far has not heard any member coming through. He is still hoping to hear a Group station and asks Tx members to beam the Midlands now and again.

It gives me great pleasure to announce that Mike has been appointed Group Representative for AREA 13 ( Stafford, Worcester, and Warwick) and I have no doubt that a pronounced increase in interest will result in that area.

PETER HUNTSMAN (Hexham-on-Tyne) has been QRT for some time due to major reconstruction, but, like Mike, he is now active again. He has just received QSLs from VLA6, VOA, BDN, OTC and HB9IJ.

E. AULT (Kettering) sends us his first letter since joining the Group some while ago. His QTH, half way down a valley and badly screened on N and W sides sounds rather a dead spot. For six months he has been hoping to hear a Group member coming in but has had to be content with LU, PY, VP6 and a few Ws as his best Dx. He and our other Kettering member, W.Pothecary, are going /P shortly in an endeavour to prove if the trouble is the QTH.

RON TURNER (Brierly Hill) has been testing a new SH3 (6K8, EF36, 6SL7 -- with 8J5 as BFO) and says that what went for an S9 sig on the main Rx (1-V-1) just about "corrugates the diaphragm", but he is

left speechless by the signal to noise ratio

G. H. TILLET (Rainham) has completed a 1-V-1 on the lines of Bob Brooker's model (Nov 1950 "QRP"). He has the RF stage tuned separately, the valve line-up being ARP12, HL2, LP2, using .9 watts in all. The coils are home wound and, while only 14 Mc/s is covered at present, coils for other bands are in view. G.H.T has also attempted the conversion of an 18 set to line up with Bob Brooker's SH4. The TP25, however, refused to "play" in the new set up and had to be replaced by a VP23 (ARP12) strapped as a triode and used as a separate oscillator. This functioned satisfactorily.

A. E. STONESTREET (Willesden Green) has checked up on his 1224 and finds the consumption well within QRP limits. He is using the mod suggested by G5GG, A.E.S, who is one of our "foundation" members has been a 2 metre super-regen enthusiast (hms little Rx was described in our first issue--Sept 1949) and he has a number of comments on the rig described by L.R.Hutchings ("QRP" No 19). He suggests that condenser C1 is too big, also the coil if the 1" diameter is adhered to, while the pot, R1, is too small. He has tried these points out on his own rig and is convinced better results will be obtained with 8 or even 10 megs. He points out that aerial coupling troubles are probably due to inefficient squegging, and that hand capacity can be eliminated by the use of another choke in the HT neg line to the cathode. Thanks for those suggestions, A.E. What about an up to date and more complete description of your rig, OM, it is so long since it appeared that a great many of our members must have missed it. Also we should appreciate full gen on the 1224 rig.

JIM MORGAN (Wolverhampton) has just completed a 0-V-0, the only available workbench being the bedroom floor. Using an HL2 he finds the consumption is only .117 watt with 60 volts. His antenna is restricted to a 6 ft vertical rod. Such conditions certainly do form a natural test for the stability of one's enthusiasm, OM!

21/10

A. D. H. LOONEY (Liverpool) has been QRT for a number of reasons but he has now rebuilt the 1-V-1 and is hoping for interesting results. He still keeps patiently airing his QRP 144Mc/s Rx, but so far has nothing to report. Arthur mentions a QSL from DULAL who says: "I am getting more cooperation from SWLs with good reports than I am from most Hams; please pass on to all SWLs my greetings for their excellent work". Thank you for that, Arthur.

PETER WHITE (Rushden) has been appointed ISWL CR for Northants. Congratulations, OM. It is most encouraging to hear of yet another Q R P Group member taking an active part in the affairs of the parent League. The highlight of Peter's month has been an extremely strong sig from XE1CQ on 21/5/51, 0700 hrs, 20 metres. There has been considerable cleaning up of the shack at Rushden, but the Rx remains the same -- a line up of two SP41s and a 6C5 with 1.12 watts.

W. F. POTHECARY (Kettering) is yet another of those who have built a 0-V-0 on the L.R. Hutchings lines (April, 1951), but he has not yet tried it out. He has added another 1T4 as audio amplifier.

HARRY WELLS (Waltham Cross) has added a 6SJ7 RF stage to his 0-V-1 with gratifying results. It has freed him from interference from Brookman's Park which has been a headache for some time and he is hoping, in consequence, to get some 160 metre results, although to date only locals have come in. On the 20th he heard the Group President, G2ATV, calling CQ in solitary state. Harry's modified Rx, by the way, takes just under the 1.25 watt limit. Can we have detailed gen on it, please, Harry?

G. H. M. YULE (Neasden) is full of enthusiasm for the recent meeting at ISWL HQ. He spent a long wragchew with Bob Brooker and came away fired with determination to get his ticket. Good luck, OM, we've got a space reserved for you in the QRP Call Book!

WALTER DAVIES (Nantwich) has broken a far too long silence with a nice letter which has, unfortunately, made my mouth water! He has been QRT for a considerable time but has continued his long-term

21/11

practice of collecting all kinds of radio gear, and catalogues an almost unbelievable list of ex-service gear which he hopes, some-day, to put to good account. Incidentally he would like to know if anyone has any gen on the American tuning unit, CAY 47152A, Range D.

FRIED CATON (Dagenham) has sent in a first letter which is somewhat unusual (from a SWL) in containing much interesting Tx constructional gen. Thanks Fred, we'll make use of this in due course, OM.

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S W L C - Z PANEL

1951 SERIES	COUNTRIES				TOTAL	ZONES
	3, 5	7	14	28		TOTAL
P. Huntsman	18	42	118	14	124	36
M. Wassell	-	12	132	41	? ? ?	37
E.W. Gardiner	9	10	61	29	62	26
H. G. Wells	14	14	70	3	74	26
D.G. Gordon	18	11	49	11	57	19
D. White	4	4	46	5	51	19
R. Murray	7	10	30	-	41	15
A.E. Stonestreet	10	15	25	10	39	14
R. Nixon	-	-	34	-	34	14

We have two new entrants to welcome this month and several nice substantial increases in scores to note. First, however, I must apologize for getting R.W. Gardiner's totals wrong last month; I hope everything is OK this time! Secondly, Mike Wassell has not given me his 'C' total so I have had to guess what position to allocate to him. There is just a chance that he may actually be in the lead!

..... TRANTEST .....

	AVERAGE	QSO	Miles	Watts			Points	Month's total
	BEST	with	-M-	Mc/s	-W-	-X-	-P-	
1: G02CNC	9250	4X4DR	2300	3.5	1	3	6900	13670
Jersey	----	UA3KAC	1750	3.5	1	3	5250	
C.I.	13670	F9JD/FC	760	7	1	2	1520	
2: G2AJU	6447	GM3DZB	425	1.8	0.5	5	4250	9400
Ipswich	----	GI3HFT	335	1.8	0.5	5	3350	
Suffolk	9400	G2HW/A	180	1.8	0.5	5	1800	
3: G5QI	5290	(average)		No entry this month				
4: G3HCW	5006	YU2AEF	950	7	1	2	1900	9500
Pontefract	----	HA5FA	1000	7	1	2	2000	
Yorks	9500	VHLGU	2800	7	1	2	5600	
5: PAØXE	2790	UB5BY	1400	7	2	2	1400	5500
Rotterdam	----	W1CPT	3400	14	2	1	1700	
Holland	5500	OH3PX	1200	14	0.5	1	2400	
6: G3EDW	2562	SP1JF	700	3.5	2	3	1650	3650
Rayleigh	----	HA4SA	1000	7	2	2	1000	
Essex	4155	UA3FD	1600	7	2	2	1600	
7: G5GG	2007	(average)		No entry this month				
8: G3GZA	1958	GM3OM	330	1.7	2	5	825	2090
Bristol	----	GM3BL	318	1.7	2	5	795	
Gloucs.	2090	G3ELO	185	1.7	2	5	470	
9: G3HBI	1670	(average)		No entry this month				
10: G3EKP	604	DL3UT	650	7	2	2	650	1365
Darwen	----	ON4MF	400	7	2	2	400	
Lancs	1365	G3FET/A	315	7	2	2	315	
11: G3CED	240	(average)		No entry this month				

Formula: -- P \* M x X + W

21/13

STOP PRESS:- Since printing the above G5QI's entry has arrived and reads as follows:-

G5QI	7698	DL1OI	330	3.5	0.5	3	1980	
Henley	---	DL3IF	368	3.5	0.5	3	2208	7224
Oxon	9690	DL1FV	506	3.5	0.5	3	3036	

This puts 5QI back in second place and G2AJU drops to third place (Sorry if I raised your hopes undueky, AJU, OM!). The most spectacular feature this month is, certainly, GC2CNC's magnificent score of 13670, the highest single score achieved in this contest so far. It even steals some of the limelight from PAQXE's climb from ninth to fifth place. As Carol Levis says, Give them a Big Hand!

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I S W L COMMITTEE MEETING

The next meeting of the ISWL Committee is scheduled for July the 8th. If you have any matters which you would like raised, or any suggestions you would like to put forward, OMs, will you please let me have the necessary details NOT LATER THAN MONDAY 4th JULY.

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A V-H-F O-V-1. by Mike Wassell

There is no doubt that interest in QRP receivers for the VHF bands has been increasing steadily for some time. At the root of that interest lies the pioneering spirit which has always been part of the radio amateur's character, backed up by the fact that relatively cheap and simple apparatus will give really worthwhile results. We have already published two examples of receivers in this category, and the present one, from that prolific Dx chaser, Mike Wassell, is a most interesting and well proven rig. But let Mike tell you about it himself.



It is, as Mike says, an ideal set for those commencing V-H-F reception for the first time. The Rx gives a high class performance and is simple and inexpensive to make, without needing any advanced knowledge to get working correctly.

The circuit consists of two valves, the first combining the functions of oscillating detector and quench valve, while the second is an ordinary steep slope triode output stage. The whole layout is based on true V-H-F lines so that maximum efficiency is obtained. The oscillator circuit is a modification of a design by C.S. Franklin. The tuning inductance consists of two 4-turn coils which are raised on pillars in order to obtain short leads by bringing them up to the level of the tuning condenser. A 3-turn aerial coupling coil is used for the aerial connection, and the valve holder is a low-loss "Frequentite" type also mounted on pillars for shortness of wiring. The tuning condenser has a maximum capacity of 25 pF and is operated by an Eddystone slow motion drive with special dial and cursor, the coupling being by means of a flexible coupler and extension spindle. This spindle is desirable since both sides of the condenser are at high potential and hand capacity effects would occur if it was mounted close to the panel. For the same reason this and the other variable condenser must be insulated from the the panel, not mounted direct on it as is the practice with normal TRF sets.

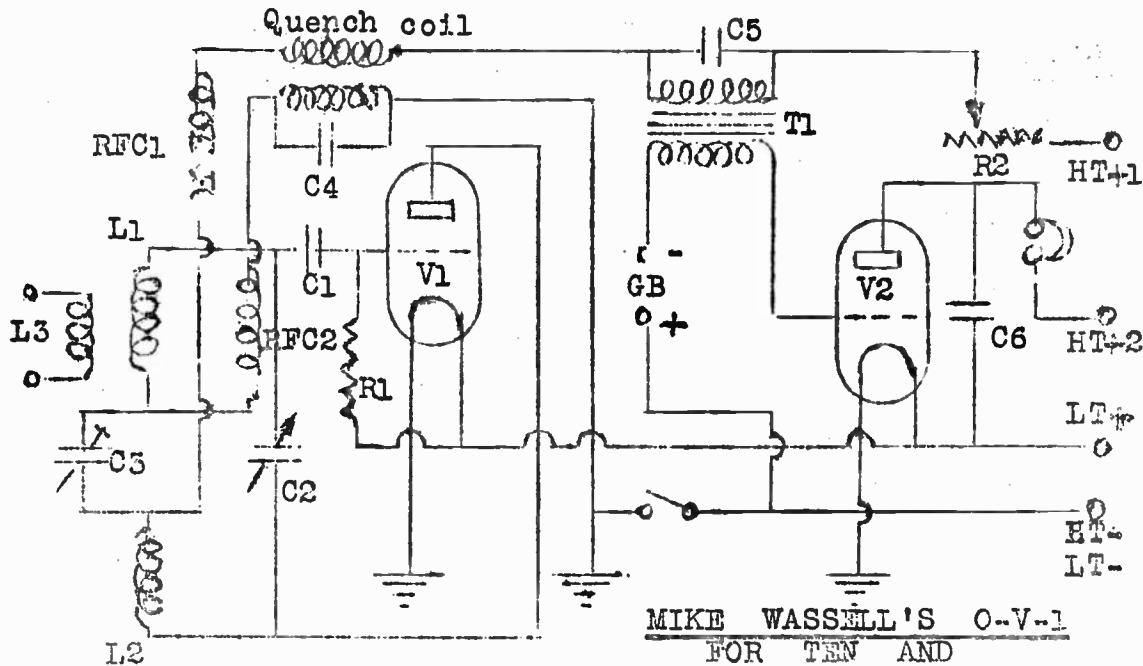
There should be no difficulty in construction and the receiver is easily adapted to other wave ranges if suitable coils are fitted. The method of adjustment for correct regeneration and quench oscillation is as follows. Set the trimmer with the plates well apart, connect a 60 volt battery to the positive HT1 socket and turn the 50K potentiometer to a point approaching half way. The trimmer should then be adjusted so that regeneration occurs over the whole band. Final control of regeneration and quench oscillation can then be obtained by the 50K pot. In practice positive HT1 should be from 50 to 70 volts, and HT2 from 100 to 120 volts. The grid bias adjust-

21/15

ment will accordingly need to be 3 to 4½ volts negative.

Component values are as follows:↓

C1, 100 pf. C2, 25 pF. C3, 70/140 pF trimmer. C4, .01 uF.  
C5, .001 uF. C6, .002 uF. R1, 3 meg. R2, 50 K. V1, HL2K, clear.  
V2, P220 or LP2. RFC1 & 2, No 1011 Eddystone chokes. Quench coil  
unit, No 958 Eddystone. Insulating pillars, 2½", No 1028 Eddystone;  
1½", No 1029 Eddystone. Extension spindle, No 1005 Eddystone.  
L1 & L2, 4 turns each, 14 swg copper wire, wound on ½" former.  
L3, 3 turns on the same former. T1, 3/1 ratio audio transformer.  
As described this rig effectively covers the ten metre band.



**MIKE WASSELL'S O-V-1**  
**FOR TEN AND**  
**HIGHER FREQUENCIES**

Dx NOTES AND NEWS, by BOB BROOKER.

Things are looking up this month, with the Dx bands beginning to justify that description. Harry Wells found conditions good at start of the month on 14 Mc/s, with JA5GC on May 8th at 1853, while that evening brought in ZC4XP and KG4AT. For a few more evenings conditions were good for Kenya with VQ4BU, 4SG and 4RF. MKs were heard between 0715 and 0745, then followed a period of short skip with only JA5GC again to lighten the gloom -- and a W7 one morning.

Mike Wassall has returned with another nice bag. On ten he heard CR6RB and 6CB, KZ50Y, ZD6IJ all on phone. He enquires about FU9AFB -- does anyone know if he is genuine? On 14 Mc/s CW he heard KC6WA on May 27th, while on phone there were VP6HK, VK2AGU at 2010, and ZD6IJ at 1531 around the middle of the month.

Late at night some good Dx came in on forty -- TASWH, EK1BA, PY2AM, 6AA and TF5TP.

Peter Huntsman found 14Mc/s a bit flat until May 22nd, although he did hear, among others, VU2ET, UA6AC, ZK2AB, FF2AB and KH6BA, which are all very nice Dx. The end of the month was marred by thunderstorms, but yielded plenty of stuff from the Pacific area early in the mornings and late in the evenings.

George Partridge, G3CED, has sent in a list of calls heard and worked which shows that, with him, conditions were pretty constant throughout the month, the Pacific area being well represented, the outstanding one being ZK1BC on the 29th at about 0600.

Thanks for all the gen, chaps, 73, BOB.

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NEXT MONTH:-- The "Q R P" editorial office packs up for it's annual /A at the seaside on the 21st July, which means that next month's issue must be out well on time to allow for that last minute rush after the bits "Mother forgot to pack". PLEASE GET YOUR GEN IN EARLY, GMS.

21/17

A RADIO - FREQUENCY STAGE FOR SUPER - REGENERATORS.

On numerous occasions in the past I have endeavoured to urge the use of an RF stage to prevent radiation of self-oscillations from the increasingly popular super-regen receiver. I have had a number of replies to these suggestions, some rather scathing, some merely in a haughty tone of incredulity, and some offering proof that the radiation is ineffective outside the room occupied by the receiver.

Well, OMs, I am completely unrepentant. I STILL say that NO S-R circuit should run without such a buffer stage. I still say that, no matter what proof you may put forward that a S-R does not cause interference, circumstances undoubtedly will arise where such proofs fail. I still say that, if for no other reason at all, it is elementary good radio manners to take precautions against interference. I still say that the advantages of such a stage far outweigh the disadvantages.

Consider this last point. Not only does an RF stage prevent radiation but it is certain to give some improvement in signal to noise ratio, and it cannot but improve selectivity which is notoriously the weak point of all super-regen circuits. And the complications? Technically there are none; practically there is only a slight added complication with slight added expense. Look at the simple little circuit required. There is nothing fussy about it.

The valve can be any suitable HF type. The coil is a normal aperiodic-and-grid winding suitable for the band required. The bias circuit consists of a 0.01  $\mu\text{F}$  condenser and a 220 ohms resistor. The tuning condenser can be about 25 pF and may be either used separately (which may be regarded as another disadvantage) or ganged to the tuning condenser on the detector circuit. Connection to the detector stage is obtained by taking the anode lead and the HF to either end of the existing aperiodic coil on the detector circuit. That's all!

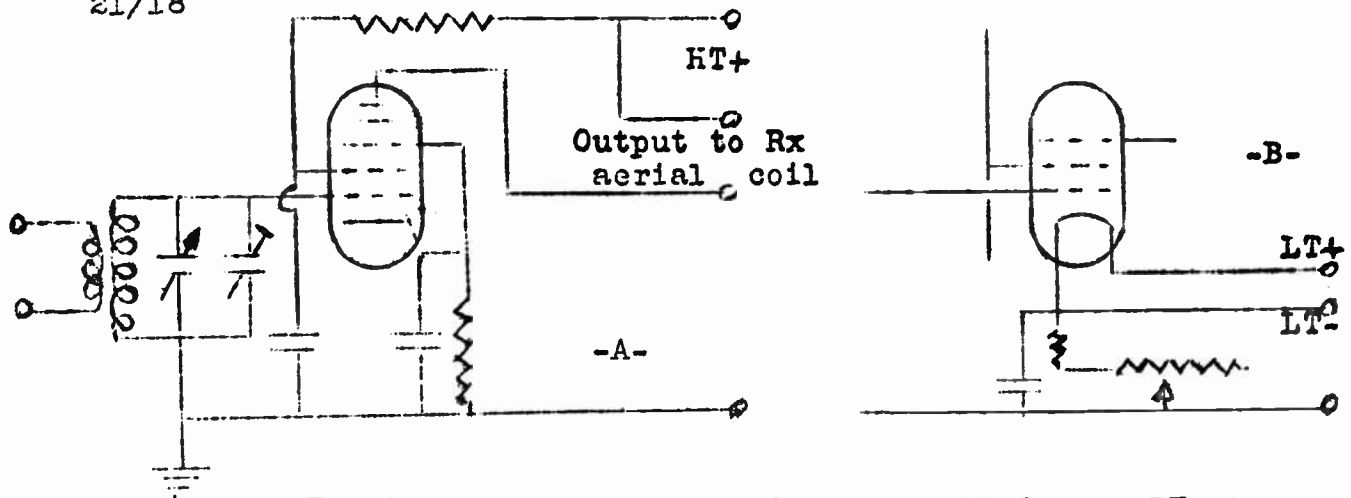


Fig A, above, shows the full circuit for an RF stage such as that discussed here, while Fig B indicates an alternative bias arrangement for battery valves, the remainder of the circuit being the same as in A.

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G - B - 3 - F - B

This is the call of the Festival of Britain Travelling Exhibition which operates on phone on 7 Mc/s and QSLs with a fb commemorative card. There seems to be a growing "Q" for QSOs with this unique station and it would be something of a feat for Tx members to contact him with QRP phone in view of this waiting hord.

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The article on the BC222, promised for this month, has had to be held over as I find certain vital gen is missing.

TWO - WATT PANEL

	TOTAL	Counties		Countries			
		1.7	1.7	3.5	7	14	28
G02CNC	75	4	2	10	26	31	2
G5QI	55	24	2	16	13	--	--
G3EDW	45	17	4	11	13	--	--
G3HBI	20	5	1	--	14	--	--
G3GZA	17	11	4	1	1	--	--
G3HCW	16	--	--	--	14	--	--
G3EKP	7	1	1	--	5	--	--

An upward trend is apparent here in each line, except for poor old 5QI who has been QRT with chicken pox. The outstanding feature is G3EDW's grand jump from a total of 17 last month to his present 45, a fact which I am very pleased indeed to see as it was Peter himself who first suggested this panel a year ago this month. The only placings which have altered this month are those which GZA and HCW have swapped over -- Bristol has been "in the clear" lately!

"Q R P" CALL BOOK.

Thanks are due to G5QI, G2AJU, G3HBI and G3HCW for the nice string of QRP Call Book data received this month.

G2BCF : 143, Collingwood Rd, Sutton, Surrey.  
5 watts, VFO-BA-PA on 3.5 Mc/s.

G2MI : A.O.Milne, 29 Kechill Gds., Hayes, Bromley, Kent.



21/20

- G3ANQ/A : C.E.Sutton, The General Electric Co, Ltd, Magnet House Kingsway, WC 2. 2.5 watts, Clapp VFO-PA, 3.5 Mc/s.
- G3CIF : J.F.Rogers, West View, 35, Oak Rd., Caterham, Surrey. 3 watts on 40 Mc/s
- G3DNA : C.J.E.Shears, 66, Tavistock St., Bletchley, Bucks, 5 watts on 7 Mc/s.
- G3GHU ; QTH is now- No2 Officers Mess, RAF, Booker, Marlow, Bucks.
- G3GWN : Cannock, 4 watts on 7 Mc/s.
- G3GYZ : 7, Neptune House, Neptune St., London, SW 16. 4 watts on 7 Mc/s.
- G6ZN : T. Herdson, 55 Gervase Rd, Horbury, Wakefield, Yorks.
- GW3EFZ : O.Postle, Canal Cottage, Trevor, Wrexham, N.Wales. 1 watt, Tx-Hartley csc, on 3.5 Mc/s.
- DL6PD : Cologne, 3 watts on 7 Mc/s.

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TOP BAND CALLS HEARD (By P.Huntsman and Mike Wassell)

- 4.4.51 {2101/2300} : G2ACV, 3AQM, 3HCV, 5ECV, 3EIV, 4SC, 4GA, 5JA, 8UR.
- 5.4.51 {2101/2400} : G2ACV, 2JF, 2AMM, 3DYV, G16YW.
- 7.4.51 {2101/2400} : G2ANM, 2PQR, 2FO, 2GP, 3EYY, 3AWY, 3VM, 3GBI, 3GW/A, 3DYV.
- 17.4.51 {1801/2100} : G2KO, 3HKQ, 3ZY, 3ECS
- 19.4.51 {2101/2400} : G3FCN, 3EIT, 3GWJ, 3HKQ.
- 28.4.51 {2101/2400} : G2HNB, 2YY, 3GHY, 3GCA, 3FIH, 3FKQ, 3ERM, 6MB.
- 1.5.51 {150L/1800} : G3HKX, 3AGP, 5NZ, 5RZ, 6VA, 8JO, GM4GK.
- 12.5.51 {1950/2007} : G2MD, 2FXK, 3AV, 3BPT, 3DJJ.
- 14.5.51 {1210/1245} : G3KL, 3OG, 3EDJ, 3FGT, 6FK, 8KO, 8UR, 8GF
- " {2126/2147} : G3PR, 3FNC, 3EGN, 3GHQ, 3AZS, 8RY.
- 18.5.51 {2135/2240} : G2DQW, 2DRG, 3AVE, 3DBE, 3DOG, 3CNT, 3EJO, 3FRN, 3EBQ, 3TB  
3ECQ, 4FJI, 4QD.

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