

R·S·G·B

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BULLETIN

JOURNAL OF THE RADIO SOCIETY OF GREAT BRITAIN



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AROUND



THE REGIONS

REGION I (NORTH WESTERN)

R.R.: H. W. Stacey, B.E.M. (G6CX), "Rose Acre," Meols Drive, West Kirby, Cheshire. Telephone: Hoylake 337.

The R.R. would like to thank those members who voted for him in the Council election and to put on record his appreciation of their support.

Although he was unsuccessful, the Region is well represented on Council by Mr. Ian Auchterlonie (G6OM) to whom the R.R. has already expressed his hearty congratulations.

Regional Scribe.
It is regretted that Mr. A. B. Wright has found it necessary to tender his resignation as Scribe, owing to other calls upon his time and members will wish to be associated with the R.R. in thanking him for his past services in a difficult, but very necessary job. A successor is urgently needed—any offers please? G6CX.

Cheshire

C.R.: F. A. Boyes (G2DHV), 44, Earle Road, Bramhall, Stockport.

Stockport.—Outstanding among several good lectures delivered recently, was one entitled "Sound in the Cinema," by G2HDV, who has arranged for members to visit a local cinema to see things for themselves. Mr. Douglas Bagg, G4TO (ex G6BD and VP4TO) 26, Priestnall Road, Heaton Mersey, Stockport (Phone: Heaton Moor 4119), has succeeded G2AAY as Secretary. The A.G.M. of the local Society has been fixed for March 24. It is the Committee's desire to run an exhibition of amateur gear—open to the public—during the same week-end. A frequency register has been compiled, and all S.R.S. members will be issued with a copy. The Committee will be pleased to send a copy to any local town group upon application to the above address. BRS10237.

Cumberland

C.R.: W. H. Hodgson (G3BW), 53, Hill Top Road, Arrowthwaite, Whitehaven.

Carlisle.—Congrats to 3FBI on his call, and welcome to 3AWY, 2ARW, 2DYV, 3ACY, 3AWY, 3ART, and 3HJ are active. The local Society has been deprived of its accommodation in the Y.M.C.A. building, and negotiations are in progress for another meeting place. Details of the new venue may be had from the T.R. G3HJ.

West Cumberland.—Nine members attended the meeting held at SDP on January 18. We wish SRZ a comfortable journey, best of health and luck in VU. Suggestions for a future programme will be welcomed. G3BW.

East Lancashire

C.R.: I. D. Auchterlonie (G6OM), 4, Stand Close, Whitefield, Manchester.

Bolton.—G4IA has now migrated to 3.5, thus easing the local QRM position. G6QT, 5XM, 2BTO and 3CJ have discovered that local contacts are possible without the aid of an aerial! 2BTO travelled part way to Farnborough with G3CJ, who while in Bolton for Xmas leave, succeeded in putting out a signal on 1.8, using his portable rig. G2BTO.

Burnley.—G5GK has WAC and WBE on 7 C.W. 3ZM is chasing DX on 28. Activity is high throughout the town. STD uses an 829 on 28. G5ZS.

FORTHCOMING EVENTS

ALL T.R.s, C.R.s, and Scribes are asked to note that dates for inclusion in the Forthcoming Events section should only cover the month of issue plus one week. For example, events for inclusion in the March issue should only refer to the period from March 16 to April 23. Frequently in the past members have sent in dates many weeks in advance of a meeting taking place.

Bury.—At the meeting held in the Boar's Head Hotel on January 2, it was unanimously decided to support band-planning schemes. The design of G3BRS is in the hands of 8NL and 6AL. On January 11 a Hamfest was held in the Mason's Arms, Whitefield, when 48 members and their ladies were present. After supper R.S.G.B. films were exhibited, followed by a display of amateur gear. Several manufacturers donated gear which allowed "swindles" to be run. In preparation for N.F.D. gear is being unearthed, and the site has already been fixed. BRS11494.

Manchester and District.—Sixty-five members attended the meeting at the College of Technology, Reynolds Hall, Manchester on January 13. The A.G.M. of the local Society was held during the evening when the following were elected to office:—Chairman, G2OI; Vice-Chairman, G5YD; Secretary, G4MD; Treasurer, G2WQ; Committee: G8NL, 5WR, 3AD, 3ALO, 3ATK, BRS3675, 11494. Congrats were extended to G6OM upon his election to the Council, and to the office of C.R. for East Lancs. Owing to the length of the meeting, no time was left for the showing of the R.S.G.B. films. These will be displayed on March 17. A hearty invitation is extended to the ladies to attend on this occasion. New members requiring help in Morse and other matters are again reminded to contact G2OI, either at the meeting or by telephone—Eccles 2155 or Eccles 3946. G2OI.

Oldham.—At the last meeting an interesting talk was given by Mr. Cooper on the manufacturing side of valve making. Congrats to Mr. T. Arnold, G3AW, and his wife on the arrival of a daughter, Kathryn, and to Mr. F. Lees, G3PD, and his wife, on the birth of a son. Those who have not yet been to local meetings and who wish to do so, are asked to get in touch with the T.R. G3PD.

West Lancashire

C.R.: R. A. Spears (G8AZ), 72, Rocky Lane, Broadgreen, Liverpool, 16.

Blackpool.—Meetings continue to be held on the first and third Tuesday, but attendances have been disappointing. Several members cannot attend owing to business, but it is felt that many more must have other reasons, and if these reasons could be made public, something could probably be done to improve the situation. Unless the T.R. is informed, however, it must be assumed that lack of interest is the cause. It is hoped to put two stations on the air for N.F.D. Suggestions or offers of equipment would be appreciated. G8GG.

Preston.—The first A.G.M. of the local Society was held during January, when the officers and committee for 1947 were elected. The financial position is sound, there is a good membership, and credit is due to all who have helped to make the first year a success. A committee has been appointed to deal with contest activities. Meetings are held on alternate Fridays at the "Three Tuns" Hotel. Slow Morse is radiated from Preston three times weekly. G5AD.

Warrington.—On Monday, January 13, the Society held the first of its fortnightly meetings. A welcome is extended to 2HKI. 3AVC is building a 14 and 28 rig. 8TR operates on 3.5 on which band he has worked VE and W. 3AWC operates on 1.8 and 3.5 when he can break away from the training of Naval Cadets. 5AU operates on 7 and his signals have been heard in VK. Will all BRS members send their numbers to the T.R.? G3TM.

REGION 2 (NORTH-EASTERN)

R.R.: C. A. Sharp (G6KU), 56, Moore Avenue, Wibsey, Bradford, Telephone: Bradford 10772. Scribe: J. H. Mardonald (G4GJ), Mayfield, Wagon Lane, Bingley, Yorks. Telephone: Bingley 965.

The R.R., in taking office, sends greetings to all members in the Region and hopes in due course to contact them at meetings convened in their areas. As ex D.R., he wishes to thank G5UO for the assistance rendered to him as Scribe for many years and hopes to continue the happy association in his new appointment as C.R. The R.R. asks for the support of all C.R.s, T.R.s, and members both at local meetings and in sending material to the Scribe for compiling Regional Notes in order that they may do justice to our very extensive Region. G6KU.

Durham

C.R.: T. Orr (G3IV), 31 Grange Park Avenue, Sunderland.

Northumberland

C.R.: N. Cooknell (G2CO), 25 Ridley Avenue, Blyth.

No data available from either county, possibly due to the change over, but we hope that some reports may come for the next issue.

Yorkshire (East Riding)

C.R.: A. G. Dunn (G3PL), 79 Hayton Grove, Gipsyville, Hull.

Hull.—All members join in wishing 8UL a speedy recovery after his recent accident. General meetings are fairly well attended; the weekly Thursday meetings are not so well patronised, but it is hoped that an organised programme will attract more B.R.S. members. 6OY is settling down in his new QRA with A.C., but at the moment is QRP on 3.5 only. 6O is definitely on top this month with 6OS and 5XG working as far afield as Liverpool and Nottingham. 3PL had doubts as to whether he

was getting out on 60 until reports came saying he had been heard at Leeds, Sheffield, etc. Congratulations to all concerned after so many exhausting attempts. 4530.

Yorkshire (North Riding)

C.R.: To be appointed.

We shall be glad to have reports from this part of the Region. Any activity at Catterick?

Yorkshire (West Riding)

C.R.: H. Beadle (G8UO), 13 Chandos Street, Keighley, Yorkshire.

Bradford.—G6BX gave a most informative lecture on the applications of the C.R.O. G2QM, 6KU and 8JD are operating newly-built V.F.O.s. G2BOO, 2FJD, 6BX and 6YO are doing well on 60. "BOO" was heard in Cheshire and "FJD" raised 60S in Hull. G2QM and 8OK are receiving on 60 and may break out at any time. Will operators of crossband duplex please assist by giving call signs at frequent intervals? Congrats to G2VO (D2CO) (Keighley) and 6HF (Bingley) on the arrival of juniors. 8UO has a new rig on 7 and 14 and will QSL all reports. The T.R. is "at home" to visitors on alternate Monday evenings. G4GJ.

Doncaster.—Members of D.A.R.S. look forward to an early removal to 73 Hexthorpe Road. Application is being made for a Club Licence. Members continue active on all bands and Morse classes are well attended. Activities will increase with the opening of the new Headquarters and we shall give a special welcome to young people. G2AVP has left for London. BRS193.

Halifax.—H.E.R.S. has re-arranged its programme to alternate with B.A.R.S. Members of both Societies will be welcome at the meetings of either. (See Forthcoming Events). We are pleased to welcome G294 to the Region. 6807 has received the call G3BAK after waiting ten months. He expects to be on the air soon with an 8JK. 10368 has left us and we wish him all the best in his new venture. The T.R. is anxious to contact new members. Please send QRA at least. G2DUX.

Huddersfield.—We heard with regret of the resignation of G5VD from the position of T.R. and thank him for his able co-operation over a difficult period. G2BMC is carrying on pending formal election. Will members please send any notes to him?

Sheffield.—A Technical Committee has been formed to arrange lectures and demonstrations and suitable accommodation has been kindly placed at its disposal. G4JW.

York.—G2ADR is getting out well and working plenty of Ws. 2BL5 is making an oscilloscope. 5KC is constructing a new 6L6-PT16 for 7 and 14. The York and District Short Wave Club is progressing favourably and now has twenty members. Morse classes under 5KC are giving good results. 11543 and 13887 await the next licence examinations. G5KC.

REGION 3 (WEST MIDLANDS)

R.R.: D. A. G. Edwards (G3DO), Selwyn House, Pilkington Avenue, Sutton Coldfield. Telephone: Sutton Coldfield 2422. Scribe: A. T. Martin (G2LB), 3 Gladys Road, South Yardley, Birmingham, 25. Telephone: Victoria 0103.

Shropshire

C.R.: J. A. W. Bate (G6WB), Lynceal Lodge, Ellesmere.

Oswestry.—Activity is extremely lively. There are 23 full power/phone and one low power stations extending a challenge in density per 1,000 population. All bands with the exception of 1-7 are in use.

The Oswestry and District Society is now affiliated to the R.S.G.B. and fortnightly meetings are held in Oswestry Technical College.

The C.R., G6WB, thanks members for their letters and promises early attention to same. New members in the district are invited to contact the C.R. or the T.R., G. H. Banner, G3AHX, c/o 6 Coppice Drive, Oswestry. G3AHX.

Staffordshire

C.R.: J. M. Fogg (G2COP), 9, Cherry Orchard, Lichfield.

Stoke-on-Trent.—Xmas and New Year celebrations reduced the attendances at the last three meetings. All BRS members are earnestly requested to take advantage of the meetings. G2HFI, and 2DRW have given excellent lectures on the use of EF.50's in receivers and relays respectively. The address of the new H.Q. is eagerly awaited by all members.

A sincere welcome is extended to the new Cheadle and District Amateur Radio Society, officially declared open on the air by Mr. Thomas Mottram, Chairman of the Cheadle Rural District Council, and Mr. Vic Scott, Chairman of the Society. The Club's licensed transmitters include G2CKC, 3AJQ, 3AVG, 3BEH, 3UB, 4IS, 8GN. Good luck, Cheadle. G3AQW.

Cannock.—Hearty congrats. to Mr. and Mrs. 2YV, upon the arrival of a baby daughter. The C.C.R.S. January meeting was cancelled due to bad weather. A speedy recovery is extended to G4CP at present suffering from malaria. G2AMG, 2FZG and 2YV are active. G2FZO.

Wolverhampton.—The W.A.R.S. meeting on January 20 consisted of a ragchew with that old favourite "C.O. v. V.F.O." as the subject for the evening. Members are assured of fortnightly topics and prospective new members are invited to contact the Secretary, Mr. H. Porter, G2YM, 221 Park Lane, Wolverhampton. G8RY.

Warwickshire

C.R.: E. G. H. Brown (G5BJ), 94 Sunnymead Road, Yardley Birmingham, 26. Telephone: Sheldon 2579.

Birmingham.—On January 21, 59 members of M.A.R.S. heard a most interesting lecture entitled "Hearing Aids and Midget Amplifiers," given by Mr. C. Naylor-Strong, G2RQ, in his own inimitable manner. M.A.R.S. meetings are held every 3rd Tuesday at 6.30 p.m. at the Imperial Hotel, Birmingham. Visitors are welcome. G3DO has worked 99 countries, post-war, on a 33 ft. end-fed Zepp. His prize QSL is for a contact with the "Dreamboat." Nice going, Doug. G2AK.

Coventry.—C.A.R.S. annual dinner is being held on February 22 at the "Hare and Squirrel." The President of C.A.R.S., G6WX, and Vice-President, G6CL, are looking forward to meeting many old friends. Hearty congrats. to G2LU on winning the M.A.R.S.—C.A.R.S. Transmitting Trophy. G2FDC is going places on 7. G6YU appeals for more local interest and activity on 60. G5GR.

Worcestershire

C.R.: J. Timbrell (G6OI), King Edward School, Stourbridge.

Stourbridge.—On January 7, 20 members braved the wintry weather to enjoy a lecture on "Frequency Measuring Apparatus," given by Mr. H. Nicholas and Mr. Billa. G6OI is active on 1-7 and G3DV is collecting LX contacts on 7. G8GF.

REGION 4 (EAST MIDLAND)

R.R.: A. C. Simons (G5BD), "The Elms," Church Road, Mablethorpe, Lincs. Telephone: 2269. R.S.: D.R. Dr. A. C. Gee (G2UK), "Stonehaven," Horncastle Road, Boston, Lincs.

On taking over this new region, the writer extends greetings to old and new friends. During the Spring he hopes to make a round of the Region with a view to attending local meetings. G5BD.

Derbyshire

C.R.: To be appointed.

Derby.—At the meeting held at Nunsfield House, Alvaston, BRS12359 demonstrated a home built oscillograph. A programme of lectures will be published at the earliest opportunity. Attendances at recent meetings have been small and an appeal is made for greater support by local members. If a 16mm. projector can be borrowed, it is hoped to show a film of the "Life of Lord Kelvin." BRS9577.

Lincolnshire

C.R.: G. Hutson (G6GH), 11 Wide Bargate, Boston.

Grimsby and Cleethorpes.—The acting T.R., Freddie Cole (4GX) has now moved to Aberdeen. We wish him luck and hope to hear him on the air from GM shortly. 2AJB has been nominated as his successor. 4GZ is turning professional, but manages to be on the air at the right times. 3YQ is building 60 Mc/s. gear. 2HOJ active on 14 is also contemplating 60. 3TZ is on 7 phone. 8V1 a QRP advocate is on 7 and 14. 2AJB active on 3-5, 7 and 28 with local interference on latter band. 8KH is getting good results with a 99 feet end on aerial. 8PV is having power supply difficulties. G2AJB.

Mablethorpe and Sutton.—G5BD is working "stacks" of VK, W6 and ZS on 14; VE and W on 3.5; Liverpool and Surrey on 60. 5LL is exclusively on 60 and trying hard to get Television reception good enough for a decent picture. 5CV spends his spare time building and will be on very soon.

Boston.—6GH, 2BQC, 6LH and 2UK are all fairly active. Grantham.—Mr. J. Norton (G4KZ) who will act as T.R. until the membership is large enough for a nomination, is putting out a useful signal on the top band.

Northamptonshire

C.R.: N. A. Owen (G4KS), 11, Kettering Road, Broughton Kettering.

Daventry.—All members are active including G2SY, 5NH who have had many good contacts. 3BA is building for high power, using VFO and a pair of 35T's in the final.

Northampton.—At the last meeting, 3BA, who was awarded the M.B.E. for distinguished service whilst a prisoner of the Japs, gave a most interesting talk on how news was obtained in the camps. The actual receiver was on view. 2AAA is now ready to put his high power rig on the air. 3RF is building a Franklin VFO. 3BCV will be on shortly with a 6L6 P.A. 4MU and 3AWT report active. G2AAA.

Nottinghamshire

C.R.: A. E. Clipstone (G8DZ), 77 Julien Road, West Bridgford, Nottingham.

Nottingham.—Two successful meetings have been held at the Hollowstone H.Q. A committee has been formed and a programme arranged to suit all types of members. Activity continues on a high level but reports are few and more would be appreciated. To encourage the BRS members, 8DZ is donating a trophy for the best receiving reports on a series of four "set" frequencies. Details from 2FXV. (Telephone 58709).

The T.R. would be pleased to see some of the "old timers" at meetings. There are over 130 full calls in the area and a hearty welcome awaits them all. G2FXV.

REGION 5 (EASTERN)

R.R.: S. J. Granfield (G5BQ), 47 Warren Road, Cambridge. Telephone: Cambridge 54644.

Cambridgeshire

C.R.: F. W. Crabtree (G3BK), 28 Regent Avenue, March.
Cambridge.—G5IG is building receiver for 60. 2PU, 2XV, 5DQ, 5JO, 8PB, 88Y are all DX'ing. Eric Masters has his ticket and is on 14. 5BQ has an SX24. He would welcome contacts on 7 with stations in this Region. G5IG.

March.—G3BK is active on 28 and building a new receiver. 3WW anxious to try 60 with 3 element rotary. 2UQ now on 14. Soon on 28. Building separate rig for lower frequencies. G3BK.
Newmarket.—Pre-war 5PU is now 5PC. Congrats to 3BGW—a new licence. SQM now on DX bands. G8QM.

Peterborough.—In 8 months 2NJ working alternately at London and Peterborough has had 1,000 contacts on 1.7 using CO only. 3AWJ put out fine signal on 1.7 from Offord before he returned to R.A.F.

Wisbech.—A meeting has been arranged. T.R. will notify members of time and place. BRS13051 expects to be on air as 2AXQ shortly. BRS7780.

Essex

C.R.: (To be appointed.)

Essex.—Search of "Bulls" has not revealed C.R. Believed to be 2CD. Will he please write R.R. [G2CD is East London D.R. No one has been nominated for Essex outside London Region.—E.D.]

Chelmsford.—Local group express appreciation of hard work put in by 6LB while he was D.R. January meeting was held at 184 Moulsham Street, when 2KG described his extensive experience with VFO, and staged demonstration. In communication with 2AAU his signal is as good as crystal on 58.5.

4AC is also on this band. 2 KG, 4CT, and 2SA prefer 28. 6LB, 5RV, and 2HPF work world on 14. 5RV, 2AAH, and 2AAU are working together. G2AAU.

Southend.—The last meeting was held at BRS925, when amalgamation with Southend Radio Society was proposed. 6MH gave a talk to the later body on Frequency Measurement, to which 5XI contributed experiences with VFO. Plenty of local activity on 1.7. 2KT stays on the air (despite illness) with remote control from bedside. 5AI testing 1.7 transceiver. 6GG looking for W's on new 56 receiver. 280 is considering 'phone. G2CMW.

Huntingdonshire

C.R.: (To be appointed.)

St. Ives.—Welcome to 3BBF who is operating from nearby R.A.F. station. 2AHU has been heard on the air, using CW. 5RL with "man-size" power-pack goes up to 150 watts in near future. 4AZ is rebuilding PA stage for P/P 807's and 2 element 8JK is under construction. 3AKU and 6WA are active. All reports indicate that 5 OV's new home-built receiver is a really fine job.

Ramsey.—2FQP is building a class "B" modulator with pair of 807's, and hopes to be on the air with these in a few days. G5RL.

Norfolk

C.R.: M. Nicholson (G2MN), 78 Wroxham Road, Norwich.

King's Lynn.—All stations active on all bands except 2HBZ who is busy building gear, and designing for other stations. Cpl. Bumfrey (India Command) writes that he is looking for local stations. Next meeting to discuss apparatus for NFD.

Norwich and Gt. Yarmouth.—No reports to hand. Will T.R.'s please write next month?

Suffolk

C.R.: F. W. G. Wells (G3ATJ), 63 Bury Road, Stowmarket. No reports to hand from any part of this county. Come on Suffolk, let's hear from you.

A word of thanks to all who have contributed to the first instalment of Regional Notes. Letters by 21st of month, please. G5BQ.

REGION 6 (HOME COUNTIES)

Bedfordshire

C.R.: A. P. G. Amos (G3AGM), Ty Gwyn, Mentone Avenue, Aspley Guise, Bletchley, Bucks. Telephone: Woburn Sands 2146.

Bedford.—A meeting will be held at the Swan Hotel on Friday, February 28, at 8 p.m. It is hoped that all members in the county will attend so that plans for the future can be made.

The writer wishes to extend a word of greeting to all members in the County and to say that he will be pleased to hear from or see them in person at any time. G3AGM.

Luton.—A meeting has been arranged for Sunday, February 23rd, at King's Fare Restaurant, King Street, at 2.30. Postcard to 26, Farley Avenue if attending please. 3KG has an SX24. G3KG.

REGION 7 (LONDON)

R.R.: S. A. Howard (G8TY), 92 Arlington Road, Southgate, N.14. Telephone: Enterprise 3219. Scribe: W. H. Thomson (BRS3425), "Ross", The Gardens, Brookmans Park, Herts.

North London

D.R.: P. A. Solder (G5FA), 35 Torrington Gardens, N.11. Telephone: Enterprise 4347.

Southgate.—At the January meeting it was announced that the North London D.R. (G8TY) had been appointed Representative for Region 7. Mr. P. R. Solder, G5FA, was nominated as his successor, thus leaving an A.R. vacancy in the Southgate Area in which connection nominations are invited. An interesting discussion on aeriels took place, during which the chief speakers were 2AJ, 6WU, 8SK and 8TY. G3GX.

Enfield.—At the meeting on January 19, communication receiver construction, servicing and problems were very instructively dealt with by G8SK. The Group wish to congratulate the Society on the issue of the new booklet "Service Valve Equivalents" with special thanks to 5CD and 3RU for its arrangement and presentation. G5VY.

St. Albans.—At the January meeting the subject "C.W. versus phone" was debated by 3BFR, 4GT and others. 3AHD has left the town for Yorkshire. 4GT is on top-band phone. 5UM is active on the two extremes of 1.7 and 60. 8TK is using two 807's in parallel, and has been working W5 and W6 on 7. The next meeting on February 18 will include a demonstration of an Eddystone V.H.F. Converter. G5UM.

Welwyn Garden City.—At the January meeting 8PM demonstrated a marine receiver which he has built for both general reception and D.F. at sea. BRS13,413 showed some of the now famous R.S.G.B. films. In the temporary absence of the T.R. on business, 2NR is acting as T.R. G2NR.

South London

D.R.: F. G. Hoare (G2DP), 6 Dunheved Close, Thornton Heath, Surrey. Telephone: Thornton Heath 2849.

Woolwich and Plumstead.—BRS10,817 is in Charing Cross Hospital, and we all wish him a speedy recovery. Success to D2VB/G2VB in his work in Hamburg. 10,777 is now on his way to Southern Rhodesia to undergo training as a navigator, R.A.F. "Happy landings, Eric!" BRS7589.

Coulsdon.—G2DN has completed his new transmitter. 4458 has an Eddystone 28/58 Converter. 8317 is leaving for India, where he hopes to have a VU call. BRS3003.

Croydon.—Local members are invited to attend meetings of the Surrey Radio Contact Club, which are held on the second Tuesday of each month at the Blacksmith's Arms, South End, Croydon. G2FWA.

Cheam.—Speedy recovery to BRS7605 who has been very ill. BRS7605.

East London

D.R.: W. H. Matthews (G2CD), 7 Beddington Road, Seven Kings. Telephone: Seven Kings 4855.

Brentwood.—The last meeting was held at 4AG's, but the attendance was poor. Active stations are 3LA, 3MV, 4AG, 2XM and 8RC. G8RC.

Ilford.—At the January meeting with 8TL in the chair, 2CD gave a very able lecture on frequency measurement during which he described a calibrated oscillator of 2XP's design. Attendance at this meeting was very good. At the next meeting, to be held on February 16, an invitation has been extended to the members of the "B.C.L." Ilford Radio Club to attend to hear the lecture by "Dud" Charman on Aeriels. Any local member who is contemplating sitting for the City & Guilds exam should contact BRS11,980 at 40 Lancaster Avenue, Barking, who may be able to arrange for it to be taken at the South-East Essex Technical College, Barking. G2Q1.

West London

D.R.: (To be appointed.)

Ruislip.—At the January meeting Mr. Stride gave a very interesting lecture on noise in receivers, illustrating his talk with suitable data on the blackboard. He concluded with details of a noise generator. G2FUX.

Slough.—There was a good attendance at the January meeting held at the home of G2HOX. The group is very active and an interesting programme is being arranged. G3XJ.

REGION 8 (SOUTHERN)

R.R.: W. H. Allen, M.B.E. (G2UJ), 32 Earls Road, Tunbridge Wells, Kent. Scribe: E. H. Trowell (G2HKU), 27 Unity Street, Sheerness, Isle of Sheppey, Kent.

Kent

C.R.: E. H. Trowell (G2HKU), 27 Unity Street, Sheerness, Isle of Sheppey.

Canterbury.—Congrats to BRS12025 who was married recently. He has built a signal generator, and is planning other gear.

Maidstone.—Apologies to the club for mixing their notes last month. The local notes were too late for publication. 4HG is now licensed for portable operation and is building a compact portable rig. 5BS has been wrestling with a PT 15 P.A. 8UC has rebuilt for 1.8 using two 6V6. We wish 3ALF, now demobbed from the R.A.F., the best of luck in his new business. 3AGV, licensed for 'phone is busy with modulation gear. G3AGV.

Chatham.—At the M.A.T.S., A.G.M., held on January 8, 2AFT and 2HAU regretted being unable to continue in office, due to pressure of business. The following officers were elected: President, 5FN; Vice-President, 2FAQ; Treasurer, 2CM; Secretary, S. J. Coombe; Assistant Secretary, 2DOH; Committee, BRS5417 and 5865. The club station 2FJA was due to make its debut on January 20. G2DOH for G5FN.

Sheppey.—G3GW has completed a seven valve superhet. 40U is active. 2DCG now at Sittingbourne, is active on 1.8 and 7. 2HKU has built a new transmitter comprising 6L6 CO/6L6 BUK/Doubler and PP807 PA, working from DC mains and a generator. 2VA is now VSTEV and is looking for contacts on 28007 kc/s. CW. (QSL via 2HKU).

Sussex

C.R.: (To be appointed.)

Worthing.—A local club has been formed and monthly meetings are held at the "Thomas A'Becket Hotel," High Street, West Tarring, on the first Thursday. At the last meeting on January 2, an attendance of 22 was recorded to hear a lecture on audio equipment, during which recordings of members' voices were made. In March, a talk and demonstration of variable frequency oscillators and transmitter exciters will be given. The following are active, 2ALM, BAG, DQI, DZF, 4JH, NY, OQ. A hearty welcome is assured for all who can attend these meetings.

G4NY.

Brighton and Hove.—The Group is going ahead with its winter programme:—February 24: "Superhet Alignment with F.M. Oscillator and Scope"—3YY. March 10: "Power Supplies"—Mr. Johnson. March 24: "Aerials"—Mr. Crabtree. April 7: "Radio Quiz"—Mr. Epton. April 21: "Aerials"—Mr. Crabtree. May 5: "Mobile and V.H.F. Receivers"—May 19: "Aerials"—Mr. Crabtree. At recent meetings, demonstrations were given of the Eddystone 504 receiver and a debate took place between 5ZQ and 5982 on the advantages and disadvantages of Crystals and V.F.O's. On January 13, several members exhibited home-constructed apparatus. 3WR and 8AC are active on 14, and 3YY is rebuilding for 60.

Reading.—Activity is reported from 2AKQ, BHS, FZI, GL, HAX, IT, 5DF, TP, XB, 6KB, WO, 8KJ and TH. Most stations are on 28, but 2BHS operates on 7, 14 and 28 and listens on 58.

BR84573.

REGION 9 (SOUTH WESTERN)

R.R.: R. A. Bartlett (G6RB), 31 King's Drive, Bishopston, Bristol, 7. Telephone: 46960. Scribe: K. T. Harvey (G5KT), 33 Howard Road, Westbury Park, Bristol, 6. Telephone: 45741.

Devonshire

C.R.: H. A. Bartlett (G5QA), "Lendore," Birchy Barton Hill, Exeter.

Plymouth.—Twenty-two members attended the meeting at 84 Embankment Road when final arrangements were made for the dinner which was held at the Bulevant County Club on February 1. Slow Morse transmissions are to take place on 1.8 at 2000 G.M.T.: G5ZT, Mondays and Thursdays; 6FB, Tuesdays and Fridays; 3ARE, Wednesdays and Sundays. At future meetings members will bring along selected apparatus and give a talk on its functions. BR812,986, a visitor from Ayr, gave news of Scottish activities. A vote of thanks was passed for the untiring efforts of G5SY.

G3TX.

Gloucestershire

C.R.: (To be appointed.)

Bristol.—The first meeting of the year produced a record attendance of 68. Five new members were made welcome and two visitors, W2FBC and GW3BAZ, introduced. G5KT resumed his BRS meetings on January 28, and dates of future meetings will appear under "Forthcoming Events." The T.R., 3RQ, received three nominations for the award of the G5FS cup. These were on behalf of 6VF, 2BAR and BR87961. The latter received the most votes. BR88665 displayed an Eddystone 504 receiver.

G3RQ.

Moreton-in-the-Marsh.—G2FZO who has received his 'phone permit, is pleased with his results on 3.5 and 7, having numerous trans-Atlantic contacts on both bands.

Somersetshire

C.R.: H. Andrews (G5DV), 175 Moorland Road, Weston-s-Mare.

Bath.—From details received as the result of a chance meeting with BR814,398, it is learned that a meeting was held on January 10. G6UR is known to be active.

Weston-s-Mare.—G5TN, the T.R., while playing Rugby, met with an accident causing temporary blindness (speedy recovery OM). The January meeting at the Y.M.C.A. produced an attendance of 17. G8GB was elected chairman and it was decided to hold monthly meetings. All interested are requested to obtain details from G5TN, 252 Locking Road. Wishes for speedy recovery are extended to G6BW, now out of hospital following an operation.

Wiltshire

C.R.: Frank S. Adams (G2YN), The Croft, Wilton, Salisbury.

Swindon.—Meetings are held fortnightly on Saturdays, details from the T.R., G3HS or 2BUJ. 2BUJ is getting ready for 'phone and 4AP is busy on 58-5. 8DM, forsaking 28 for 1.7, says he can at least get a contact now. 3APS is active together with 3AYL and 3ASP. The latter has tried working VK without an aerial. The T.R. was pleased to receive a visit from G3BGM of Westcott.

G3HS.

The Region is very active as a whole, so send along your notes and news in good time. Dates and details of all meetings please for "Forthcoming Events."

G5KT.

REGION 10 (SOUTH WALES AND MONMOUTHSHIRE)

R.R.: D. A. Dyer (GW8UH), 29 Ladysmith Road, Cardiff. Telephone: Cardiff 2691.

Scribe: E. A. Hayward (GW2UH), 6 Kenfig Road, Cardiff. Telephone: Llandaff 407.

Glamorgan

C.R.: C. Parsons (GW8NP), 46 Inglefield Avenue, Cardiff.

Cardiff.—At a well-attended January meeting the chief topic was N.F.D. Offers of tents and car batteries will be gratefully accepted. The full co-operation of all members is requested to make the occasion as successful as possible. Information is required concerning the whereabouts of 8HB, said to be "near Cardiff."

GW3VL.

Neath.—Attendances at meetings continues to be good and several new members have been welcomed. Re-building is in progress at most stations and there has been an increase in the use being made of the lower frequency bands. 6BI has successfully added a noise limiter to his HRO and is erecting a 28 rotary beam. 3GO has been heard after a long absence, and 2FRB is welcomed back after a spell in hospital. The local "Rag" is proving very popular but contributions are still required by the Editor.

GW6JW.

Swansea.—Local meetings are well supported; lectures and junk sales being the main attractions. Weekly Morse practices are being arranged. The "on the air" meeting every Thursday at 21.00 G.M.T. is a regular feature in which local stations participate. The 28 band is used.

2FGJ is consistently working W6 with CW on 28. 2FYV is building and hopes to operate from a prefab, shortly. 2HDX has been busy with W telephony contacts on 28 and is shortly moving to 14. 2HRI is operating on all bands. 3AX is a consistent contact for DX stations on 14 and 28—WAC on Sunday mornings being a frequent achievement. 3UO has been busy on 28 and is noted for excellent speech quality. 3XW is still on CW and quite active. 3AAO is held up whilst building a rack and new PA with 2-807's, but makes an occasional 28 QSO on the kitchen table. 3ARP is in Carmarthen and may occasionally be heard over SMQ. 4CC is chasing DX on 3.5, 7 and 14. He is interested in cross-band W QSO's, calling on 7 and listening on 3.5. 6CJ is welcomed back on the air and is also noted for excellent speech quality on 28. 28 has been the main band of late and 3AX, 3UO and 6GJ have been working 3AUS, Bideford (45 miles) and 2FKO, Tavistock (75 miles). 3AX has kept regular schedules with 3AUS for ten days at 21.00 G.M.T., with 2FKO occasionally participating, the locals being on phone and the Devon stations on CW. As these are ground wave QSO's, there has been no fading. The general inclination now is "back to 14 for the evenings." Quite a few are interested in 60 and are waiting for a lead.

GW2HDX.

Monmouthshire

C.R.: G. R. Silverthorne (G2BG), Radio House, Abergavenny.

QSL CARDS.—GW2UH has hundreds of unclaimed cards. Those who have no envelopes with him, are asked to send some in as soon as possible.

REGION 11 (NORTH WALES)

R.R.: F. J. E. Starkey (GW6KY), Endon Gronant Road, Prestatyn, Flint.

North Wales

C.R.: E. G. Foulkes (GW5FU), 19 Kinard Drive, Rhyl. Telephone: 1141.

Rhyl.—At the January meeting GW5FU gave a most interesting talk on his 25 years as a licensed amateur. The snow was no doubt responsible for the attendance being smaller than usual. It is intended to hold a public exhibition of Amateur Radio activities at the Pavilion, Rhyl, during the period March 8 to 10. The education authority is interested in the project and it is proposed to admit the public on payment of a small entrance fee. Any member who is willing to loan gear, especially of home construction, or who would arrange schedules for working demonstrations, is asked to contact GW5FU at the above address. We are depending on the local members to rally round and put on a show which will be a credit to the whole Amateur Radio movement.

GW6KY.

REGION 12 (NORTH SCOTLAND)

R.R.: A. G. Anderson, B.Sc. (GM3BCL), 87 Braemar Place, Aberdeen. Telephone: Aberdeen 2676.

Angus and Perthshire

C.R.: A. J. Wylie (GM2FXN), 42 St. Mary's Road, Downfield, Dundee.

Dundee.—At a meeting held on January 15, GM4NR was nominated T.R. for Dundee. The attendance was 18 and included GM2FXN, 2HFV, 3AOR, AQU, IX, NH, 4HR, NR and 58C. A committee has been formed and several of the O.T.'s have agreed to give talks starting with 3NH. Future meetings will be held on the second Wednesday of each month at Marwins Tea-Rooms, Nethergate, Dundee. 58C proposed that Dundee members should set an example by keeping within the CW and phone areas of the bands. All agreed to do so and it was suggested that the GPO should lend a hand in cleaning up all bands.

GM4NR.

Aberdeenshire, Kincardine and Banffshire

Aberdeen.—The A.A.R.S. to which most Aberdeen members belong has started a constructional programme. Progress is being made with a communications receiver and a multi-range meter. Other items are being planned. GM2FHH is rebuilding. 3RL hit the headlines of the local press recently when he had a QSO with VESNW. The operator there was an Aberdonian. Active stations in and around Aberdeen are GM2XO, VA, FHH, 3ALZ, ATW, AXR, BCL, RL, 4HZ, 6LG. 3BCL has had a letter from GM3AFG (at present ZD3AF) saying that DX is nae bother out there.

GM3BCL.

Northern Counties

C.R.: A. Stewart McNicol (GM3UU), Inchestellie House, Alvea, Morayshire.

GM3AJX has built a 5-band 6L6-807 COPA transmitter, and has worked KP4CC and ST2AM on 7. His first spell on 28 brought W1, 2, 3, 4, 6, 7, 8, 9, in one afternoon! 3WO with 25 watts to a 6L6 had a solid half hour with a VE7 on 28 phone. WAS is in sight and he finds VK's quite common. 58L is using 120 watts on CW. 3UU is using a modified T1138 on 7 and 1.7. 3AJX, UU, WO and 58L have a sked on 7 phone and CW on Sundays at 15.30 G.M.T. and 1.7 CW on Saturdays 22.00 G.M.T. An invitation is extended to other stations in the North to join in and add the glow of their heaters to these "Northern Lights." GM3UU.

REGION 13 (SOUTH EAST SCOTLAND)

R.R.: J. Wilson (GM6XI), 52 Macdonald Road, Newington, Edinburgh, 9. Telephone: Edinburgh 42153.

Lothians and Edinburgh

C.R.: P. Hardie (GM6JH), Crossford, Linlithgow. Telephone: Linlithgow 107.

Edinburgh.—Members welcomed 6RG's contribution to their recent open discussion on 60 operation and await his return from W to hear his promised talk. The new committee are considering the 1947 programme, including Field Day arrangements. Activity on 60 is increasing, several new transmitters and receivers being on the stocks. 5YX, 2BD, 3BZ and 3UM keep the CW DX flag flying. GM6LS.

Fife and Kinross-shire

C.R.: W. N. Craig, (GM6JJ), 2 Aberdour Road, Burntisland, Fife. Telephone: Burntisland 2302.

Activity continues at high level. At least eight stations are known to be active. 6JJ is giving lead on 60 and demonstrated a transmitter, absorption wavemeter and local oscillator, for this band, at a recent meeting. He would appreciate skeds with other districts. Appointments of Town Representatives will be announced shortly. GM6JJ.

Borders

C.R.: O.C. Doley (BRS4679), Pelham House, Norham-on-Tweed.

Berwick.—The local Society is going well. The whole region will congratulate 2YY on his good showing in the Top Band contest. The C.R. has organised an Area meeting for February—see appropriate heading.

Galashiels.—6RG has returned to the air, but will shortly visit W5FT, 8NW and 3ZH are active and several new transmitters and aerials are under way. Members regret the departure of 6JD for Wigan, wish him good luck and thank him for all his help in recent years. GM3ZH.

Hawick.—No news to hand, but 2IP and 8RV are known to be around. Membership is increasing and joint meetings with Galashiels members are being well attended.

General.—The R.R. thanks members in all Districts for the many encouraging messages and promises of support which he received following upon his appointment as R.R. The new set-up will work well if the present enthusiasm continues and he will do his modest best to help things along. GM6XI.

REGION 14 (WEST SCOTLAND)

R.R.: Jas. Hunter (GM6ZY), 51 Camphill Avenue, Langside, Glasgow, S.1. Telephone: Langside 237.

Notes are short this month due to all C.R.'s and T.R.'s not being appointed at time of writing. By next issue it is hoped that a full complement of C.R.'s and T.R.'s will be in office. The R.R. will be away from home during the latter part of February and early March and members are asked to refrain from writing him during this period.

Ayrshire, Bute, Dumfries-shire, Kirkcudbright-shire and Wigtownshire

C.R.: D. A. MacQueen (GM4PW), 3 Ayr Road, Prestwick. Telephone: Prestwick 78375. Scribe: Miss J. A. C. Rainie (GM3AKR), 6 Montgomerie Terrace, Ayr. Telephone: Ayr 2375.

The first meeting of the month took the form of a social evening in the Eldon House Hotel. Snowbound roads caused the absence of some members, but 34 including five ladies were present. During the evening, 4PW presented to Miss Rainie, a leather call-book cover, embossed with her call-sign and suitable inscription, in recognition of the very valuable services which she has rendered to the area and in bringing it up to its present level of enthusiasm.

Clackmannanshire and Stirlingshire

C.R.: C. M. Winton (GM6XW), 146 Broomagebank, Larbert.

Larbert, Stirling.—At the January meeting an attendance of 17 members listened to a talk on "Aerials" given by 6NX. Many were interested in his suggestion that aerials in the attic were well worth a trial. Gear constructed by 3AVA was also on show. We welcome 2TW and also 11954. Congrats to 3OM on the arrival of a daughter. 4MF is busy with a new VFO and SFT, after much re-building, is on the air on 14. 4JQ.

LATE NEWS.—Mr. D. R. Macadie GM6MD, has been appointed C.R. for City of Glasgow and Mr. J. B. Rimmer T.R. for Glasgow. Mr. J. W. Jeffery, GM2DI, is C.R. for Lanarks.

FORTHCOMING EVENTS**REGION 1**

- Feb. 18 Blackpool, 7.30 p.m., Bellevue Hotel, Whitegate Drive.
- Mar. 4 Blackpool, 7.30 p.m. at Bellevue Hotel, Whitegate Drive.
- " 5 Burnley, 7.15 p.m. at Mechanics Institution, Manchester Road.
- " 17 Manchester, College of Technology, Reynolds Hall.

REGION 2

- Feb. 17 Bradford, 7.30 p.m. at 66 Little Horton Lane.
- " 24 Halifax, 7.30 p.m. at 32 Clare Road.
- " 26 Sheffield, 8 p.m. at Dog and Partridge.
- Mar. 3 Bradford, 7.30 p.m. at 66 Little Horton Lane.
- " 10 Halifax, 7.30 p.m. at 32 Clare Road.
- " 17 Bradford, 7.30 p.m. at 66 Little Horton Lane.

REGION 3

- April 20 Birmingham, Official Regional Meeting, Imperial Hotel. (Full details next month).

REGION 4

- Feb. 23 Derby, 11 a.m. at Nunsfield House, Alvaston.
- " 27 Nottingham, 7.30 p.m. at Hollowstone H.Q.

REGION 5

- Feb. 21 Cambridge, 7.30 p.m. at The Jolly Waterman.
- " 23 Luton, 2.30 p.m. at King's Fare Restaurant.
- Mar. 4 Chelmsford, 7.30 p.m. at 184 Moulsham Street.

REGION 7

- Feb. 16 Enfield, 3 p.m., A. & B. Cafe, Southbury Road.
- " 16 Ilford, 7 p.m., Ilford Town Hall.
- " 17 Plumstead, 8 p.m., St. Mark's Hall.
- " 18 St. Albans, 8 p.m., The Beehive, London Road.
- " 18 Cheam, 7.30 p.m., Ye Olde Red Lion.
- " 20 Slough, 7.30 p.m., 152 Stoke Poges Lane.
- " 26 Stoke Newington, 8 p.m., 164 Albion Road.
- " 27 Ruislip, 7.30 p.m., 11 Ickenham Road.
- Mar. 4 Cheam, 7.30 p.m., Ye Olde Red Lion.
- " 4 Welwyn Garden City, 8 p.m., Council Offices.
- " 7 Southgate, 7.30 p.m., Merryhills Hotel, Oakwood (Enfield West).
- " 11 Croydon, 8 p.m., Blacksmiths Arms, South End.
- " 14 London, 6.30 p.m. at Institution of Electrical Engineers. Tea at 5.30 p.m. "Ex-Enemy Radio Equipment," by A. A. Jones, G3RU.
- " 18 Brentwood, 8 p.m., 27 Mount Crescent.
- " 20 Slough, 7.30 p.m., 20 High Street, Chalvey.
- " 23 North Chingford, 7 p.m., British Restaurant.

REGION 9

- Feb. 25 Bristol, 7.15 p.m. at G5KT, 33 Howard Road, Westbury Park.
- Mar. 6 Penzance, at Railway Hotel.
- " 14 Bristol, 7 p.m. at Keen's Cafe, 56 Park Row.
- " 15 Plymouth, 7.30 p.m. at 84 Embankment Road, Princes Rock.

REGION 10

- Mar. 5 Swansea, 7.30 p.m. at Vivian Road Social Centre, Sketty Cross.
- " 10 Cardiff, 7 p.m. at Park Hotel.
- " 12 Swansea, 7.30 p.m. at Vivian Road Social Centre, Sketty Cross.

REGION 11

- Feb. 23 Rhyl, 3 p.m. at Crown Hotel, High Street.

REGION 13

- Feb. 16 Borders, 2.30 p.m. at Ednam House Hotel, Kelso.
- " 27 Edinburgh, 7.30 p.m. at 25 Charlotte Square.

REGION 14

- Feb. 26 Glasgow, 7 p.m. in the Institute of Engineers and Shipbuilders, 39 Elmbank Crescent.
- Mar. 13 Larbert, 7.30 p.m. at Plough Hotel, Stenhousemuir.

REGION 15 (NORTHERN IRELAND) Co. Down.

C.R.: F. A. Robb (G16TK), 60 Victoria Avenue, Sydenham, Belfast. Telephone: Belfast 55494.

Congrats to 9550 on receiving his full call—3AXD: he is active on 14. 58J is using 10 watts phone on 28 with good results. 3CM has installed a T1154 and R1155. 10,201 from Birkenhead is now in Belfast. 2HCC is building a 58 converter. 3ZX has phone going on 28 and 14. 6TK has worked KL7, K6, VK, ZL, CM, and all W Districts on 7. G12KR, 2AFW, 3ZX, 3VQ, 3AIT, 5AJ, 50Y, 5TK, 6TK, 8MI are active. Although there are at least 50 Co. Down members only one report was received and that was from a Co. Antrim member! Please write or phone before 20th—this includes the Belfast Co. Down members as well. G16TK.

Cheadle (Staffs) and District Amateur Radio Society

Representative bodies and distinguished guests, crowded the Club premises on Saturday, January 4, when Mr. T. Mottram, J.P. (Chairman of the Cheadle Rural District Council) opened the Club premises.

Members, under the lead of Chairman Mr. V. Scott (G3UB), gave a demonstration of Amateur work and the visitors were delighted to hear four or five other stations answer in quick succession.

Messages of good wishes poured in all day and the proceedings finished with tea.

The shack measures 30ft. by 10ft. and is centrally heated and newly decorated. G3AVG.

Needle in a Haystack

L. M. Ferguson, VE4FZ, of Ste 2, 800 Corydon Avenue, Winnipeg, Canada, wishes to get in touch with a radio amateur who was stationed at R.A.F. Station, Stradishall, Nr. Newmarket, during the year 1942. He was a wireless operator with the rank of Sergeant, and his name was John.

Congrats

● To Mr. and Mrs. F. J. E. Starkey, GW6KY, on the arrival of a junior op—Nicholas James—on December 19. Also to GW6KY on passing his Final Exams as a Solicitor.

● To Mr. R. G. Rugg, G2BRK, and his wife, of Woodford Green, Essex, on the birth of a daughter, Andrea Susan, on October 27 1946.

● To Mr. and Mrs. F. M. Mannie, BR512,327, of Portsmouth, on the birth of a son, Graham, on August 8, 1946.

● To F.O. and Mrs. L. D. Hubbard, G2FRM, of R.A.F., Cranwell, on the birth of a daughter on October 9, 1946.

● To Mr. R. A. Simpson, G8SD, and Dorothy on the birth of a son on February 1, 1947. Mrs. Simpson was on the staff at Headquarters for several months.

Silent Key

Rev. SYDNEY NEWBY, (G8CP)

IT is our sad duty to record the passing of the Rev. Sydney Newby, G8CP, Rector of Newhaven, Sussex, on December 28th last after a long illness. SCP took up radio as a hobby in 1928, shortly after returning to this country from Canada, obtaining his A.A. licence in 1934 and his full call soon afterwards. He was at that time in Birmingham where he was a keen supporter of the local group. In 1937 he became Rector of Newhaven. Here he was a busy man, but contrived to spend as much time on the air as he could spare from his duties. He was well known among the scattered hams in Sussex, and one of his last activities was to entertain more than 40 members to tea in the garden of his Rectory in July last. Soon afterwards he was forced to take to his bed, from whence he held numerous QSO's on 1.7 and 7 Mc/s. by remote control of his transmitter. He insisted that his disability was only a passing phase, but unhappily this was not so, and he reluctantly gave up radio in October. Sydney Newby had the facility of making friends. He believed in efficiency with low power, deplored "pirates" and was ever-ready to give a helping hand. He was a member of the Referees' Association, officiating in the Midland League, and later in Sussex County League games until two years ago. During the war he rendered valuable service to the Government. We deplore the passing of a grand amateur and a gentleman, and offer our sincere sympathy to his widow and family.

W. H. A.

BOOK REVIEWS

SHORT WAVE LISTENERS' ANNUAL, 1947. Published by Amalgamated Short-Wave Press, Ltd. 78pp. Price 2s. 6d.

The 1947 edition of this popular publication is brimful of interest. Chapter Eight is particularly noteworthy as it contains what must surely be one of the most comprehensive lists of short-wave broadcasting stations. The list is arranged in order of frequency and extends over 19 pages. There is a chapter on the propagation of short-wave radio waves which describes in language free from involved mathematics, just how short-wave signals are propagated. Other chapters give details of International Call Signs, Amateur Prefixes, Short-Wave Reporting methods, Amateur Codes and Abbreviations and Broadcast Station addresses. The Commercial W/T section lists the Q and Z Codes while Chapter Six gives helpful hints on the identification of short-wave stations.

In every sense a most useful book and one which every short-wave enthusiast should have on his bookshelf. J. C.

"BROADCASTING STATIONS OF THE WORLD." Compiled by "Wireless World." Published by Iliffe & Sons, Ltd. Size 4½ in. wide by 5½ in. Paper covers plus 48pp. 1s. (postage 1d.)

This booklet will meet a long-felt want on the part of many radio listeners—and, in particular, those who do not confine their reception to B.B.C. programmes. Details of over 1,000 broadcasting stations scattered throughout the world are arranged for easy reference, and this volume will be found a great help in their rapid identification. There are blank spaces for the notation of individual dial readings.

LETTERS TO THE EDITOR

Thanks and Congrats

DEAR SIR,—As an unsuccessful candidate for Council honours at the recent election, may I be permitted to express my grateful thanks to the 725 members who recorded their votes in my favour. As a comparatively unknown "ham," outside my own district, I am well pleased with this, my first effort, and here I should like to offer my congratulations to the new Council, and appeal to all members to do their utmost to support those in whom confidence has been constitutionally expressed.

Yours sincerely,

E. J. KENTSBEER, (G8JB.)

7 Second Avenue, Denvilles, Havant, Hants.

From B.R.S. to Full Call in 8 Months

DEAR SIR.—I think it may be of interest to members to know that, starting from "scratch," with no Service or other qualifications to exempt me, the time taken to obtain my licence was eight months.

The details are as follows:

	1946
Closing date for entry for Exam. March.
Examination held May
Result of Exam. August.
Application for Morse Test and Licence September
Morse test held October
Licence received November

Yours faithfully,
J. GRANT, (G3AZC.)

Trans-atlantic Work on 5 Metres

DEAR SIR,—My attention has been drawn to a 5 Metre Trans-Atlantic claim, made by Messrs. Stratton & Co., Ltd., G6SL, in the January BULLETIN, concerning a now unverifiable report from a New York listener in 1935.

I would like to point out that when my 5 metre signals were heard across the Atlantic by W2HND, on December 27, 1936, the technical Press acclaimed this as definitely the first such report. Complete details were published in the *Wireless World* for January 22, 1937, *Television and Short-Wave World* for February and March, 1937, the *Short Wave Magazine* for March, 1937, etc., etc.

From my technical files I can trace no published mention whatsoever of G6SL's U.S. report at the time it is stated to have taken place and when, presumably, the report would have been available for inspection. Neither can I trace any refutation, of my "first across" claim, by G6SL in subsequent issues of those same technical journals, a procedure which, one would have thought, would have been the obvious way to establish a genuine prior claim.

Incidentally, I might mention that the M.U.F. was so low during 1935 that it was not until October that it rose sufficiently to allow even occasional 28 Mc./s Trans-Atlantic communication to take place for the first time during that year.

Yours faithfully,
HILTON L. O'HEFFERNAN (G5BY).

NEWS FROM HEADQUARTERS

COUNCIL, 1947

President :

STANLEY K. LEWER, B.Sc., G6LJ.

Executive Vice-President : V. M. Desmond, G5VM.

Hon. Secretary : H. A. M. Clark, B.Sc.(Eng.), G6OT.

Hon. Treasurer : A. J. H. Watson, F.S.A.A., G2YD.

Hon. Editor : Arthur O. Milne, G2MI.

Immediate Past President : E. L. Gardiner, B.Sc., G6GR.

Members : I. D. Auchterlonie, G6OM, G. F. Bloomfield, Ph.D., A.R.I.C., G2NR, C. H. L. Edwards, A.M.I.E.E., G8TL, K. Morton Evans, O.B.E., G5KJ, R. H. Hammans, G2IG, J. W. Mathews, G6LL, W. A. Scarr, M.A., G2WS.

G.P.O. Liaison Officer : Arthur E. Watts, G6UN.

General Secretary : John Clarricoats, G6CL.

December Council Meeting

Resume of the Minutes of a Meeting of the Council of the Inc. Radio Society of Great Britain, held at New Ruskin House, Little Russell Street, London, W.C.1, on Monday, December 9, 1946 at 5.45 p.m.

Present.—The President (Mr. E. L. Gardiner, in the Chair), Messrs. Bradley, Clark, Edwards, Evans, Gay, Hammans, Hoare, Langley, Lewer, Mathews, Milne, Watson, Watts and John Clarricoats (General Secretary).

Membership

Resolved to elect 220 Corporate Members, 52 Associates and 12 Junior Associates. Total elected 284. Three Associates, applied for, and were granted, Corporate Membership. Messrs. R. L. Castle, G6CB and J. B. Hum, G5UM, applied for and were granted Life Membership.

Affiliated Societies

Resolved to grant affiliation to the Grafton Radio Society and the Radio Society of Harrow.

Finance

Resolved to accept and adopt the Cash Account for the month ended November 30, 1946.

Budget

The Hon. Treasurer reported that he had prepared and circulated to members of Council, an estimate covering Income and Expenditure for the current year. Resolved to record that it is the wish of the present Council that the Budget, as presented by Mr. Watson, be placed before the 1947 Council at its first meeting with a recommendation that a Finance Committee be appointed.

Italian Amateurs

Resolved to re-elect Dott. Ing. R. Ognibene, IIIR and to consider further applications from Italian Nationals on their merits.

German Amateurs

A letter was read from Mr. A. D. Taylor, G8PG, protesting against an earlier decision of the Council not to accept applications for membership from German Nationals. The Secretary's reply was approved, in which he had explained that, until the Peace Treaty is signed, the Council cannot accept applications from German Nationals.

Surplus Service Equipment

Resolved to record that the Society cannot undertake any further approaches to the Ministry of Supply or Admiralty, and that the present Council cannot entertain any trading propositions.

Council Elections

Resolved to record that the Society has no power to prevent members canvassing on behalf of Council nominees.

QSL Bureau

It was reported that in recent issues of the "Short Wave Magazine" and the "Short Wave Listener," the address of the British Isles QSL Bureau, was given as that of the "Short Wave Magazine."

Resolved to inform overseas QSL Bureaux that the R.S.G.B. is accepted by all I.A.R.U. Societies as the official QSL Bureau for Great Britain.

Regional Representatives 1947

The Regional Representatives for 1947 were appointed.

Resolved that the President shall convey the thanks of the Council to those D.R.'s who have not been appointed Regional Representatives.

A.G.M.'s.

Resolved to request the 1947 Council to consider holding the A.G.M. after the lecture.

Report of the QSL Manager

The Report and Recommendations contained therein were accepted.

Resolved to award honoraria amounting to £53 2s. 0d. to the Sub-Managers in recognition of their very valuable services to the Society.

Resolved to award an honoraria to Mrs. Lucy Milne in appreciation of her services to the Society in connection with the operation of the QSL Bureau.

Resolved to inform the 1947 Council that, in the opinion of the present Council, steps should be taken as soon as possible to transfer the central control of the Bureau to Headquarters.

Council expressed the view that the Sub-Manager's organisation should continue to function on a voluntary basis as is the case in the U.S.A.

Resolved to appoint Mrs. Lucy Milne to the staff of the Society to deal with that portion of the work of the Bureau which is at present being undertaken by the QSL Manager.

Licence Matters

It was reported that

(a) A letter had been sent to the A.R.R.L., at the request of members, regarding the continued operation of high power amateur stations in the U.S. Zone of Germany.

(b) The Medway Amateur Radio Society had written to express satisfaction with the explanation given for the term "serious unruly conduct." A similar letter had been received from the Grays and District Radio Society.

(c) Complaints had been received of severe interference from British Radar stations operating in the 28-30 Mc/s. band. The facts had been reported to the G.P.O.

(d) The West Cornwall Radio Society had been granted permission by the G.P.O. to relay a rifle shooting match between two local teams. The G.P.O. had subsequently informed Mr. Watts that the permission had been granted in error.

(e) The A.R.R.L. had requested the Society, at very short notice, to obtain permission for British Isles amateurs to operate in the 50-54 Mc/s. band in view of predicted favourable conditions for Trans-Atlantic work. Mr. Watts had made application to the G.P.O. but the request had been rejected.

(f) A letter had been sent to the G.P.O. expressing concern at the news received from outside sources that the G.P.O. had not fully supported amateur frequency requirements at the recent Moscow Conference. Mr. Watts had asked for a meeting to obtain information regarding this matter.

Boy Scouts Association

Mr. Watts tabled a memorandum setting out the essential details of a scheme which had been tentatively agreed to by the G.P.O.

The scheme provides for Boy Scout groups to receive training in radio communication. The G.P.O. have offered the Scouts a power of 5 watts for selected stations which will operate in the 58-5-60 Mc/s. band. Crystal control transmitters will be used at portable fixed stations and tunable sealed transmitters (not c.c.) at portable mobile stations. Each control station will be in charge of a person having the same standard of technical knowledge and Morse proficiency as an amateur.*

Resolved to advise the G.P.O. that the Council is of the opinion that—

- (a) the amateur's licence conditions should apply generally ;
- (b) each station should be issued with a distinctive call-sign ;
- (c) operation should be confined to c.w. or m.c.w. telegraphy ;
- (d) arrangements should be made for netting.

Reports of Committees

The Reports of the Codes of Practice, Contests, Social and Technical Publications Committees were presented and certain recommendations made therein approved.

The meeting terminated at 9.50 p.m.

[* *Editorial Note.*—These are the main conditions but we understand that working will be permitted only within the group, i.e. between control and mobile stations and that messages will be confined to matters connected with the training of Boy Scouts.]

Representatives—Changes of Address

Headquarters now hold a special stencil file of names and addresses of all Representatives. In order to avoid confusion and losses such members who change their address are asked to notify the General Secretary immediately, stating their specific office.

This notification should be in addition to the normal routine advice asking for the BULLETIN to be sent to a new address.

Staff Vacancy

A vacancy exists at headquarters for an experienced lady clerk to take charge of records. Applications should be made in writing, to the General Secretary.

EXCHANGE AND MART SECTION

Due to paper restrictions advertisements are only accepted "for insertion when space is available." No advertisement must exceed 50 words. **RATES: Members Private Advertisements 2d. per word, minimum charge 3/-.** Trade, 6d. per word, minimum charge 9/-. Use of Box number 1/6 extra. Send copy and payment to **PARRS Advertising Ltd., 121 Kingsway, London, W.C.2.**

All components, complete equipment, test gear and technical books for transmitting amateurs, short wave listeners and experimenters now obtainable from 56 College Road, Harrow. Prompt repair and re-alignment of communication receivers personally supervised by G4HV. Postal enquiries receive immediate attention. Open 9 to 6.30 daily including Saturdays.—**ODEON RADIO, Harrow.**

ANY reasonable offer, HF100 new, 7v. Hamband superhet. Variable condensers and 4v. rectifiers going cheap.—**G8ON, 25 Raine Avenue, Workop.**

ATENTION.—Let "Radio Construction and Maintenance Limited," of Barracks Lane, Cardiff, do the hard work for you! We cut and bend your chassis and panels. We wind your mains and modulation transformers. We're good and our price is right. Try us! Enquiries welcomed. S.A.E. please.

BC-342. Antenna compensation, S/R relay, 1.5-18 Mc/s.; 6-Band. With Xtal. valves; less p.p. Needs overhaul. Offers?—**WILLIAMS, 25 Glenmore Road, Birkenhead.**

CALLING CQ! Write for Britain's first QSL Catalogue (see September BULLETIN)—**G3DI, SANDERLEY, The Studio, Castle Street, Rugby.**

CLEARING.—Now G.E.C. 0-1 millimeter with rectifier and multiposition switch, 50s. G.E.C. M.C. 6 range Multimeter, 30s. *Practical Wireless*, Jan. 1938-Dec. 1943, offers? Much other surplus quality gear, stamp for list.—**BRS11940, "The Valley," Clontarf, Salford, Co. Down.**

COMMUNICATIONS Receiver, 30 Mc/s. to 60 Mc/s. 11 valves, desensitizing facility, variable passband with crystal gate, BFO, optional AVC, highest standard performance, recently overhauled. Mounted on specially made L/S cabinet, circuit, 7 spare valves, headphones. Consider offers over £55; further details on request.—**Box 68, PARRS, 121 Kingsway, London, W.C.2.**

CQ. FELLOWS.—Introducing again R.V. Transmitting Inductances.—The rigid Air Spaced Tank Coils giving low loss at low cost. Made by Hams for Hams. Stamp for leaflet.—**R. V. TRANSMITTING INDUCTANCES, GM3OM, 12 Drip Road, Stirling.**

CR100 receiver wanted for spare parts. Particulars and price on request.—**Box 56, PARRS, 121 Kingsway, London, W.C.2.**

CRYSTAL 1777 Kc/s., 18s. HY25 unused, 15s.; low loss tank coils, 12 SWG, 3in., 12T, 2s., 23T 3s. 6d., 2in. 20T 3s. 4in. C.T. 40T, 6s. 1 1/2in. drivers 7T, 10T, 15T, 18T, lot 5s. Wanted Pen/DD/4020, 2D4B, pair AC/82.—**BRS1914, "Llanfair," Two Mile Ash, Horsham.**

FOR SALE.—S.W. 3-valve G.E.C. battery receiver, with coils, also for broadcast bands, £10.—**G5RN, "Newburn," Mid-Warberry Road, Torquay.**

FOR SALE.—1T4 and IR5 (1), 12s. 6d. each, KT33c, unused, 12s.—106 Whitton Dene, Hounslow, Middlesex.

G3AOS of Hale. Constructional work undertaken for the Amateur transmitter and listener; enquiries invited for any apparatus. Eddystone and all Ham gear agencies. Steel racks, chassis, panels, cabinets. Publications and not forgetting our prompt mail order service.—**J. G. BARNES & Co., 4 Victoria Road, Hale, Altrincham, Cheshire. Tel.: Alt. 4464.**

G501 has for disposal—**RK20A** (2), £2. 95d. £1. D660 10s. PT15 7s. 6d. EF5 6s. 75ft. lengths coaxial 75 and 45 ohms, 15s. Pick-up 10s. Eddystone coils 6K, 6LB and 6BB, 10s. 6d. set.—**135 Lichfield Road, Four Oaks, Warwickshire.**

H1-VOLTAIRE paper dielectric condensers 6W 1000v working 9s. 6d. each. "0002 Split-stator brass "Polar" variables, 3s. each. Brand new Eimac 35Ts, 72s. each. C.W.O. or C.O.D.—**TYLER, Stoughton Road, Leicester.**

HRO complete with power pack, 3 coils no bandspread) Ham bands (10/160) excellent condition, £45.—**Box 50, PARRS, 121 Kingsway, London, W.C.2.**

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NEW style of QSL cards. Send 3d. for samples.—**G4HU, 34 Birch Avenue, Romley, Cheshire.**

PATENTS and Trade Marks. Handbook and advice free.—**KINGS PATENT AGENCY LTD. (B. T. KING, G5TA, Mem. R.S.G.B. Reg. Pat. Agent), 1464, Queen Victoria Street, London E.C.4. Phone: City 6161. 50 years' refs.**

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RUBBER stamps for "Ham" use, made by Ham to your requirements. Call Signs, BRS No. etc. A million uses. Specimen impressions sent free upon request.—**Box 37A, PARRS, 121 Kingsway, London, W.C.2.**

SALE.—Hammarlund Comet Pro., £20. Westinghouse B.C., 348 Built-in A.C. pack, £25. 13 Tube Yank F.M. Receiver, F.B. job, £17 10s. R1155, £13 10s. R1132 modified 5 metre super job, £17 10s.—**Box 34, PARRS, 121 Kingsway, London, W.C.2.**

SALE.—1155 Receiver, 6V6 output. Power pack, dial light, new front panel, stand-by switch, etc. Entirely self-contained. 200-250v. A.C. less speaker, £20.—**G2HFK, 25 Alfred Street, Rushden, Northants.**

SALE.—Complete Station. 150 watt plate Mod. TX, in 6 foot rack, steel and aluminium, Eddystone 504, spare Eimac 35Ts, Hyton TZ40's, all new and guaranteed. Relay controlled. Available to highest offer, premises being vacated. Cost over £300.—**G4IV, Vale House, Maidencombe, Newton Abbot.**

SALE.—Leather sling case for universal Avomitor, 10s. new. A. Avodaptor with instructions for valve checking, as new, £2. S.A.E. 34 Gorse Rise, Grantham.

SALE.—B2S Receiver realigned, best offer over £30. Also pair 810's, £2 each. C.R.T. V.C.R.97, £2 5s.—**Box 45, PARRS, 121 Kingsway, London, W.C.2.**

SALE.—Vorticon super 50 watt amplifier. PP 807's. Valves RK20(1) 810(3) PT15(2). Woden modulation transformers. Type UM3 and UM2. All good condition. Wanted receiver with crystal gate, must tune 28 Mc/s. Offers. S.A.E.—**GAMBLE, "Ogle," Stanhope Avenue, Woodhall Spa, Lincs.**

SALE.—Unused valves: KT44 (2), 10s. 7N7 (3), 7Y4 (1), 2ND7 (1), 53 (1), EL50 (1), EF8 (2), 2B2 (2), 6SN7GT (9), 6L7G (1), 6R7G (1). All 5s. 3750 Kc/s. Xtal in Biley holder, 20s.—**TAYLOR, 134 High Street, Barnet, Herts.**

SALE.—HBO coil 1-7-4 Mc/s. Wanted RK20A.—**HERBERT, 11 Torland Road, Hartley, Plymouth.**

SALE.—National H.R.O. Model M, in good condition. Coverage 10-170 metres. Offers.—**J. TRUSSELL, 171 Barcroft Street, Cleethorpes.**

SALE.—Avo Minor D.C., £3. Avo-Daptor for 4, 5 and 7-pin valves, 25s. M/A meter 0-10 m/A's, 15s. Also radio gear worth £30.—**BRS 5943, 79 High Street, Hadley, Wellington, Shropshire.**

SALE.—35T valve, 45s.; 10 valve RX chassis 10 to 80 metres, amateur built, two IF; one RF and BFO, £9. TZ40 wanted. What have you? S.A.E.—**EDGE, Greenmount, Stamford Road, Bowdon, Ches.**

SENIOR H.R.O. for sale with four general coverage coils, £47 10s. 7 day approval against cash. S.A.E. enquiries.—**Box 30, PARRS, 121 Kingsway, London, W.C.2.**

SEVEN crystals in holders 7-7.5 Mc/s. band separation 60-6 Kc/s. £10. Two 50 watt U.H.F. triodes, £2 10s. each. R.C.A. streamlined Mic' M.C. Input transformer; three 6J7's, two 6L6's and Collins 20 watt modulation transformer, £8.—**Box 52, PARRS, 121 Kingsway, London, W.C.2.**

SHROPSHIRE Ham. Call and see us. We have a very good stock of Ham gear. Eddystone, Raymatt, Hamrad, Labgear, etc.—**POWERS RADIO (G3ASC), Albion Hill, Oswestry.**

SUSSEX Hams and all interested in Amateur Radio can now obtain Raymatt, Hamrad, QCC, Denco, and most other components locally. Catalogue free, better still visit the Ham Shack of BOWERS & WILKINS, LTD., 1 Beckett Buildings, High Street, Tarring, Worthing.

SURPLUS gear. 6SN7, 6SL7, EF50, 6V6G, 6AG5, 7s. 6d. each. DC5 Pen, 20s. Mansbridge high voltage condensers, working. 5kv, 5uF, 15s. 5kv, 2uF, 35s. 3kv, 1uF, 7s. 6d. 1kv, 25uF, 3s. 6d. 7.5kv, 1uF, 30s. 230v. 50 cycle, 12 1/2 air exhaust fan, 25s. All perfect. Stamp list.—**BRS9139, 3 King's Avenue, King's Lynn.**

THE Institute of Practical Radio Engineers have home study courses covering elementary, theoretical, mathematical, practical and laboratory tuition in radio and television engineering; text suitable for I.P.R.E. Service entry and progressive exams; fees pre-war rates. The syllabus or instructional test post free.—**Apply SECRETARY, 20 Fairfield Road, Crouch End, London, N.8.**

URGENTLY WANTED to complete volumes, following BULLETINS: July to November, 1944, volume 20, Nos. 10 to 5. August, 1945, volume 21, No. 2. April, 1946, volume 21, No. 10.—**PARKIN, Western Telegraph Co., Sao Vicente, Cabo Verde, Portuguese West Africa.**

WANTED.—Trader Service Sheet, No. 656. Would buy or loan.—**MACDONALD, Fodderty Cottages, Dingwall, Ross-shire.**

WANTED.—Echophone EC-1 or EC-1A communications receiver in good condition. Full particulars to: **HARRIS (Gur), 80 Queens Walk, Ashford, Middlesex.**

WANTED.—High class engineer's precision tools. Exchange for radio equipment, unused valves, 805, 807, 832, 6L6, 1852, 6AK5, 6J6, 954, 6's-12's, etc., etc., or accept offers.—**Box 63, PARRS, 121 Kingsway, London, W.C.2.**

WANTED.—Several type 70L7GT valves, price and quantity to: **G4CI, 30 Bodley Road, New Malden, Surrey.**

WIND charger. All complete except fan. 6v dynamo charge 2v. £1. Buyer pay carriage.—**BRS12366, "Coneys," West Grinstead, Sussex.**

1940 Sky Buddy with pre-selector, excellent condition. Best offer over £18 10s. Also surplus valves and components. S.A.E. list.—**32 Bromwich Street, Bolton.**

6L6G's, unused. 10 for sale at 10s. each or offers for lot.—**Box 32, PARRS, 121 Kingsway, London, W.C.2.**

NEW MEMBERS

THE COUNCIL HAS PLEASURE IN ANNOUNCING THAT THE FOLLOWING HAVE BEEN ELECTED TO CORPORATE OR ASSOCIATE MEMBERSHIP OF THE SOCIETY

SPECIAL NOTE

THIS SOCIETY IS NOT IN ANY WAY RESPONSIBLE FOR CIRCULARS FROM OUTSIDE SOURCES WHICH MEMBERS, AND PARTICULARLY NEW MEMBERS, MAY RECEIVE AS A RESULT OF THEIR NAMES APPEARING IN THIS JOURNAL.

British Isles (Licenced Amateurs)

G2DM A. C. BINKS, 20 Weston Ave., Queensbury, Bradford, Yorks.
 G2HM J. HANCOX, 21 Balcaskie Rd., Eltham, London, S.E.9.
 G2MU E. J. BAYLISS, 30 School Lane, Kenilworth, Warwick.
 G2RQ E. C. NAYLOR-STRONG, 46 Middle Park Road, Selly Oak, Birmingham.
 G2SJ *K. N. FRANKLIN, 21 Bincote Rd., Enfield, Middlesex.
 G2SW A. H. FIELDING, 42 Ockford Ridge, Godalming, Surrey.
 G3CN *L. A. HILL, 8 Melrose Place, Clifton, Bristol 8, Glos.
 G3MK S. R. BRAKLEY, 54 Lyons Street, Pitsmoor, Sheffield.
 G3TK R. E. WOOD, 25 Kenwood Ave., Leigh, Lancs.
 G3UT L. J. LEEDER, 15 Beccles Rd., Bungay, Suffolk.
 G3ABA L. KENNARD, 41 Manor Rd., Rugby, Warwickshire.
 G3ACE M. A. PEARCE, 49 Heyford Avenue, Muller Road, Bristol 5, Glos.
 G3AEV L. T. WILKINSON, 1a School St., Darton, Barnsley, Yorks.
 G4LF P. TURTON, 428 Binley Rd., Binley, Coventry, Warwickshire.
 G4MK L. J. FISHER, 20 Iris Ave., Birstall, Leicester.
 GM4MQ A. L. FORGE, 25 Beacon Terrace, Ferryden, Montrose, Angus.
 G14NX A. BLACK, 1 Elmfield Ave., Whitewell, Antrim Rd., Belfast.
 G40A E. K. MORRIS, Scaforth, Germoe, Marazion, Cornwall.
 G5DS J. L. DANKS, Trenodden, Menheniot, Liskeard, Cornwall.
 G5HM J. FITTON, 18 West Street, Rochdale, Lancs.
 G5KS A. C. BEVINGTON, 41 Moore Crescent, Langley, Birmingham.
 G5SF *J. WILKIE, 51 South Rd., Liverpool 19, Lancs.
 G5TD J. E. BAIRDS, 22 Butterbachs Rd., Huntingdon, Chester.
 GW6BI R. W. EDWARDS, 17 Villiers St., Briton Ferry, Glam.
 G6BY W. E. PARKER, Kaygor, Worlebury Park, Weston-super-Mare, Somerset.
 G6LN S. DOWDING, 262 Mauldeth Rd., West, Manchester 21, Lancs.
 G6NT C. W. WATSON, 130 Pullman Court, London, S.W.2.
 G6ZA W. DARBEY, 1 New Houses, Fence Woodhouse Mill, Sheffield.
 G8CC A. J. COLLEY, 4 Carnarvon Rd., Redland, Bristol 6, Glos.
 G8CI H. CHADWICK, 41 Meadway, Ashford, Middlesex.
 G8DO *J. DOWDING, The Fields, Jerbourg Rd., St. Martins, Guernsey.
 G8NC H. H. LUGG, 67 Bustleholme Lane, West Bromwich, Staffordshire.
 G8NI S. LONG, 19 Hyde Rd., Kenilworth, Warwickshire.
 G8OY J. MEREDITH, 61 Shakespeare Rd., Fleetwood, Lancs.
 G8OV F. H. WRIGHT, 12 Manchuria Rd., London, S.W.11.
 G8RB T. FACHTOR, 46 Aylesbury Ave., Chaddesdon, Derby.
 G8WS *F. STALLWORTHY, 276 Elgin Ave., London, W.9.
 G2AJU E. COWLES, Post Office Farm, Stutton, Ipswich, Suffolk.
 G2AWR G. WALKER, 7 Geneva Crescent, Darlington, Co. Durham.
 G2DGO A. J. BALE, 17 Ember Court Rd., Thames Ditton, Surrey.
 G2DKW B. BURDSALL, Senlyn, Houghton Rd., Dunstable, Bedfordshire.
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 G2DWB A. WEBSTER, 14 Sundale Ave., Prescott, Lancs.
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 G2FNX D. J. CUDLIP, 17 Edward Henry House, Cornwall Road, London, S.E.1.
 G2FRT W. CROXALL, 26 Tenter Street, Atherton, Warwicks.
 GW2FUF W. T. G. WILLIAMS, Somerset House, Brook Street, Williamstown, Rhondda, Glam.
 G2HCL F. WALSH, 321 Park Rd., Oldham, Lancs.
 G2HFI L. HODKINSON, St. Albans, Meavy Lane, Yelverton, S. Devon.
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G2DS E. REDPATH, Devon Lodge, Knoll Rd., Bexley, Kent.
 G2JZ J. V. RUSHTON, White Hall, Kingswinford, Staffs.
 G2SC J. M. SCOTT, Millhaven, Queensway, Redcliffe Bay, Portishead, Som.
 G2UY *A. R. LAND, 10 Kimberley Street, Bradford, Yorks.
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 G3ZK R. P. POHLMANN, 14 Gleanings Avenue, Highroad Well, Halifax, Yorks.
 G4AU *A. GOVER, 30 Amblecote Close, Grove Park, London, S.E.12.
 G4BM *J. SIDDALL, 47 Woodville Avenue, Great Crosby, Liverpool 23, Lancs.
 GW4CZ W. H. JAMES, 12 Greenfield Street, Penyrgaig, Rhondda Valley, Glam.
 G4FM *R. KELSALL, Cragg Cottage, Troutbeck, Windermere, Westmorland.
 G4HA T. J. PARKER, 80 Windsor Avenue, Hillingdon, Mdxs.
 G4HI W. SMITH, 69 Burnside Crescent, Skipton-in-Craven, Yorks.
 G4IP S. SHACKLOCK, 16 High St., Halesowen, Birmingham.
 G4JP G. HICKS, 67 Alexandra Drive, Upper Norwood, London, S.E.19.
 G5FO *H. JEAKINGS, 2 Citelife Gardens, Bedford.
 G5OU C. S. BROWN, 16 Canterbury Road, Redear, Yorks.
 GW5UO H. ROBERTS, 2 Kings Rd., Llandudno, N. Wales.
 G5UZ D. RUONES, 4 Chellow Terrace, Chellow Dene, Bradford, Yorks.
 G5VN S. ENTWISTLE, 10 Ruskin Avenue, Blackpool, Lancs.
 G6BF A. BATHURST, 56 Sartoris Road, Rushden, Northants.
 G6LF *J. H. GOODLIFE, 493 Queens Rd., Sheffield 2, Yorks.
 G6XX *L. MOXON, Green Farm, Green Lanes, Churt, Surrey.
 G6ZN *T. F. HERPSON, 55 Gervase Road, Horbury, Nr. Wakefield, Yorks.
 G8DX R. G. LAVIS, 14 St. Marks Road, Bath, Somerset.
 G8JT A. TOMLINSON, 74 Clifton Road, Prestwich, Nr., Manchester, Lancs.
 G8KG F. SMITH, Red Cottage, Bletchingley, Surrey.
 G8MZ G. HILL, 46 Fabian Crescent, Shirley, Birmingham.
 G8WW A. S. CARTER, 13 Leicester Causeway, Coventry.
 G3AAS M. D. GLYNN, 40 St. Martins Grove, Leeds 7, Yorks.
 G3ABQ F. BRITTON, 185 Wootton Road, Gaywood, Kings Lynn, Norfolk.
 G3ACQ H. J. HARMSWORTH, 209 Beverley Road, Hull, Yorks.
 G3ADT M. WARD, 52 Poulton Avenue, Sutton, Surrey.
 G3AGD *A. L. DRAKEFORD, 76 Bedford Avenue, Barnet, Herts.
 GW3AHG A. L. JONES, 65 Grange Road, Rhyl, N. Wales.
 G3AHV G. RIPLEY, 63 Bayswater Place, Harehills Road, Leeds 8, Yorks.
 G3AHY *C. CALL, 20 Plemont Gardens, Bexhill-on-Sea, Sussex.
 G3AJK R. EARLAND, 59 Eaton Rise, Ealing, London, W.5.
 G3AJX O. DAVENPORT, Rawlingswell, Marlborough, Wilts.
 GM3AJX G. STANTON, R.N. W/T. Station, Bower, Caithness, Scotland.
 G3AKF B. G. TAYLOR, 10 Orchard Lane, Pilgrims Hatch, Brentwood, Essex.
 G3AOD L. G. PETCH, 31 Kenneth Road, Brislington, Bristol 4, Glos.
 G2ACZ G. WHITEHEAD, Pumping Station, Goole, Yorks.
 G2AVC H. J. CRANE, 266 Hounslow Road, Hanworth, Mdxs.
 G2BHR P. L. STILES, 20 Temple Sheen Road, East Sheen, London, S.W.14.
 G2BLS T. WALKER, 16 Melwood Grove, Beckfield Lane, Acomb, York.
 G2BPA P. BRANNEY, 3 Talbot Gardens, Leeds 8, Yorks.
 G2BBZ *C. LEVY, 174 Holders Hill Road, Mill Hill, London, N.W.7.
 G2DQW A. WILLIAMS, 25 Augusta Road, Acocks Green, Birmingham 27.
 G2DOW *A. CORNISH, 5 Well Street, Torrington, N. Devon.
 G2DUD H. WORSLEY, 8 Hall Grove, Chedale, Cheshire.
 GM2FJT T. IRVING, 35 Dumbarton Rd., Stirling, Scotland.
 G2FLR T. W. HORSLEY, 40 Bath Street, Stoke, Ipswich, Suffolk. (Transfer from Associate Grade.)
 G2FUL H. HUNT, 59 Saxby Rd., Melton Mowbray, Leics.
 G2HFW E. ANTHONY, 131 Southover, Bromley, Kent.
 G2HIQ C. MERRISON, 61 Raleigh Street, Walsall, Staffs.
 G2HIW H. PARKINSON, 37 Avenue Parade, Accrington, Lancs.
 G2HKG R. LOWSON, 5 Hestobel Gardens, Bishop Auckland, Co. Durham.

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- G2LD H. F. M. BAKER, 44 Kennington Road, Fulwood, Preston, Lancs.
- G2LG E. E. DAVIES, 8 Chatham St., Rotherham, Yorks.
- G3BV A. CONGREAVE, 8 Ilkeston Rd., Bramcote, Notts.
- G3DV H. WALKER, 42 Prince Albert Street, Dudley.
- G3IO G. MASON, 18 Belgrave Road, Blackheath, near Birmingham.
- G3IT R. C. S. REID, The Cottage, Kingston, Ringwood, Hants.
- GM3JY T. BREEN, 90 Cambridge Street, Garnethill, Glasgow, C.2.
- G3QC C. H. EDLIN, 10 Pembury Road, Woollaton, Notts.
- G3NT R. OLIVER, Hilton Grange, Northallerton, Yorks.
- G3TW J. WITHERS, Wynberg, 103 Harboro Road, Oadby, near Leicester.
- G3VR *W. WILKINSON, 10 Swainhouse Rd., Bradford, Yorks.
- G3VT *E. A. PINNOCK, 149 Northview Drive, Westcliff-on-Sea, Essex.
- GM3XO J. R. MACPHERSON, 41 Balgarvie Crescent, Cupar, Fife, Scotland.
- G4DB G. S. HIRST, 43 Warley Wood Avenue, Luddenhams, Yorks.
- G4MJ H. K. BASTERFIELD, 65 Carter's Lane, Quinton, Birmingham, 32.
- G5TG J. NORRIS, Kenrol, Sandford Road, Sale Moor, near Manchester.
- G5MV *E. MITCHELL, 11 Greyland Park Drive, Newby, Scarborough, Yorks.
- G5MZ W. BROWN, 79 Fairfield Road, Morecambe, Lancs.
- G5NV H. CRAWSHAW, 123 Wood Lane, Sheffield, 6.
- G5SS A. W. L. SUMMERS, 8 Kendal Avenue, Rednal, Birmingham.
- G6CV *T. S. GARRARD, Hilgar, 34 Shotley Avenue, Sunderland, Co. Durham.
- G6GG G. GOLDING, Rest-a-while, Leicester Avenue, Rochford, Essex.
- G8AH R. SNEDDON, 67 Kintillo Drive, Glasgow, W.3.
- G8HI N. BURNITT, 11 Northdown Avenue, Upper Stratton, Swindon, Wilts.
- GM8JW *J. WILSON, 335 Main Street, Wishaw.
- G8TG F. BELL, 6 Waverley Terrace, West Hartlepool.
- G2ABX S. J. E. PITCHFORD, Elmhurst, Bishop's Cove, Bishopsworth, Bristol.
- G2AGO J. MOSS, 3 Ascot Close, Hainault, Ilford, Essex.
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- G2BAF S. R. NICHOLLS, 9 Seagrave Street, Kettering.
- G2BHQ A. J. BARNETT, The Mascot, South Heath, Great Missenden, Bucks.
- G2BHW W. H. HAMMILL, 13 Albany Rd., Falmouth, Cornwall.
- G2BJT J. TAYLOR, Hollinwood, Ridge End, Marple, near Stockport.
- GM2BRA R. CALDER, 68 Main Street, Doune, Perthshire.
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- G2BYI A. E. BARNES, Harrowby, Farcet, Peterborough.
- G2FGO E. LAFFAR, 9 Irlam St., South Wigston, Leicester.
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- G2HMY G. R. PRIDAY, 117 Howell St., Cowley Rd., Oxford.
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- G3ANM G. E. WEGG, Cobgate, Moulton, near Spalding, Lincs.
- G3AOA G. RAMSDEN, 137 World's End Lane, Quinton, Birmingham, 32.
- G3APK N. J. HANSCOMB, 80 Manor Road, Kenton, Harrow, Middx.
- G3APM W. L. OLIVER, 29 Alma Road, Lowestoft, Suffolk.
- G3AQO V. F. LUCAS, 237 Worplesden Road, Guildford, Surrey.
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- VP6AL A. N. BRAUDE, 34 The Pryors, East Heath Road, Hampstead, London, N.W.3.
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- ZS2CK A. W. GALE, Box 329, East London, Cape Province, Union of South Africa.
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- W9JPF C. F. PIPPER, 1922 Morton Street, Anderson, Indiana, U.S.A.
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- 13,211 R. HAIGH, 21 Top Row, Armitage Bridge, Huddersfield, Yorks.
- 13,212 I. RAPER, 10 Parkside Place, Meanwood, Leeds 6.
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- 13,216 J. C. THORNER, Bishops Cleeve Hostel, Nr. Cheltenham, Glos.
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- 13,219 D. PUTNAM, 91 Bicester Road, Aylesbury, Bucks.
- 13,220 J. BOWKICK, 19 Falcon Avenue, Edinburgh, 10, Scotland.
- 13,221 G. KIRBY, Ingledene, Sheffield Rd., Glossop, Derbyshire.
- 13,222 H. SNOWDON, 25 Fourth Row, Linton Colliery, Morpeth, Northumberland.
- 13,223 C. HATTRICK, Bron Gwyndy, Trawsfynydd, Merioneths.
- 13,224 A. TATTON, The Corner, Bridge Rd., Woodford, Cheshire.
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- 13,227 R. L. BURROWS, 2 Kirby Close, Ewell, Surrey.
- 13,228 E. MARSON, 165 Dobbin Hill, Sheffield 11, Yorks.
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- 13,233 J. ATKIN, 8 Kingslea, Leatherhead, Surrey.
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- 13,235 T. P. MCAVENNA, 60 St. Quivox Road, Prestwick, Ayrshire, Scotland.
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- 13,237 H. G. COX, 68 Sherwin Road, Lenton, Nottingham.
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- 13,241 H. BRUCE, 4 Cromwell Rd., Stretford, Manchester, Lancs.
- 13,242 J. WRIGHT, 1 Gloucester Road, Hyde, Cheshire.
- 13,243 A. E. ELLIOTT, 171 May Street, Basingstoke, Hants.
- 13,244 W. NORCROSS, Fayre View, Puriton, Bridgwater, Som.

- 13,245 D. GODFREY, 1 Westerfield Road, Ipswich, Suffolk.
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 13,247 P. CLARK, The Sun Inn, N. Wheatley, Retford, Notts.
 13,248 M. SORSKY, 9 Gwydrin Road, Calderstone, Liverpool 18, Lancs.
 13,249 F. G. MEAD, 9 Bute Street, Brighton, Sussex.
 13,250 J. LAPPIN, 127 Victoria Street, Glossop, Derbyshire.
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 13,252 J. K. REILLY, Archville Shore St., Hollywood, Co. Down, N. Ireland.
 13,253 A. WATKINS, Flat 11, 5 Princes Av., Liverpool 8, Lancs.
 13,254 P. LONGTON, Kinloch, Mile Path, Hookheath, Woking, Surrey.
 13,255 E. HARRIES, 34 Gerston Road, Paignton, S. Devon.
 13,256 P. WILKINS, 218 Bohemia Rd., St. Leonards-on-Sea, Sx.
 13,257 J. W. HARROP, 112 Marsland Rd., Sale, Manchester, Lancs.
 13,258 J. BICKERSTAFFE, 69 Lodge St., East Park, Hull, Yorks.
 13,259 R. HUTCHESON, c/o North British Rayon Ltd., Jedburgh, Rox., Scotland.
 13,260 L. A. POTTLE, 25 Lubbock Close, Norwich, Norfolk.
 13,261 R. L. CHERRY, 2 Highfield Avenue, Standlane, Radcliffe, Lancs.
 13,262 R. R. PULMAN, 12A Brunswick Road, Sutton, Surrey.
 13,263 M. PEARCE, 58 Hollam Rd., Milton, Portsmouth, Hants.
 13,264 C. KERR, 3 Lancaster Road, Ipswich, Suffolk.
 13,265 N. LOWE WILLIAMS, 1 William Street, Barrow-in-Furness, Lancs.
 13,266 J. C. SCOTT, 14A Crabton Close Road, Boscombe, Bournemouth, Hants.
 13,267 A. MCINDOE, 2A Station Rd., Ainsdale, Southport, Lancs.
 13,268 E. N. BAZLEY, 12 St. Leonards Road, Heaton Chapel, Stockport, Cheshire.
 13,269 E. NEEDHAM, 31 Howsain Street, Burnley, Lancs.
 13,270 F. QUINTON, 73 Park Av., Sydenham, Belfast, N. Ireland.
 13,271 E. SMALLEY, 135 Bradford Road, Crewe, Cheshire.
 13,272 G. GILHAM, 48 Kirkland Street, Glasgow.
 13,273 T. MARSLAND, 18 Highfield Drive, Broughton, Nr. Preston, Lancs.
 13,274 J. CURTIS, 16 Ross Close, Mildred Avenue, Hayes, Mdx.
 13,275 W. JACKSON, 2A Heavily Grove, Stockport.
 13,276 P. HARE, 247 Mere Road, Leicester.
 13,277 D. P. FILER, 296 North Rd., Hull, Yorks.
 13,278 F. WESTBROOK, 158 Blackthorn Rd., Bitterne, Southampton, Hants.
 13,279 W. J. BARTON, Rothay Lodge Cottage, White Bridge, Grasmere, Westmorland.
 13,280 I. CURRELL, Cold Harbour, Dundry, Nr. Bristol, Glos.
 13,281 V. HUGHES, Abbots Hale, Cheadle, Staffs.
 13,282 L. J. DOUBELL, 37 Oregon Square, Orpington, Kent.
 13,283 A. V. DREW, 9 Queen Street, Wisbech, Cambs.
 13,284 G. R. TEW, 77 Perry Street, Northampton.
 13,285 W. C. FRY, 33 Somerset Street, Kingsdown, Bristol 2, Gloucestershire.
 13,286 R. H. LAUCHLAN, 16 Sidney Street, Saltcoats, Ayrshire.
 13,287 J. C. EAST, 12 St. Johns Rd., Queens Park, Chester.
 13,288 P. B. ROBINSON, 3 Headswell Crescent, Bournemouth, Hants.
 13,289 W. DARBYSIRE, 8 Bentinck Ave., South Shore, Blackpool, Lancs.
 13,290 G. PEARSON, 10 Westbourne Grove, Ripon, Yorks.
 13,291 J. O'NEILL, 22 Whitegate Ave., Chadderton, Nr. Manchester.
 13,292 S. COOK, 397 Maidstone Rd., Wigmore, Gillingham, Kent.
 13,293 H. DAVIES, Frusit, Sandhills Road, Barnt Green, Birmingham.
 13,294 L. O. JONES, Bryn Offa, Racecourse, Oswestry, Salop.
 13,295 W. H. BROWN, Michael Villa, Bonlwyn, Ammanford, S. Wales.
 13,296 E. A. WALKER, 55 Grove Rd., Rock Ferry, Birkenhead, Cheshire.
 13,297 K. W. STICKLAND, 34 Preston Rd., Westcliff-on-Sea, Essex.
 13,298 L. RATCLIFFE, 38 Adelaide Terrace, Blackburn, Lancs.
 13,299 W. DUNN, 1 Queen St., Renfrew, Scotland.
 13,300 L. A. EGERTON, 119 Lower Derby Rd., Stamshaw, Portsmouth, Hants.
 13,301 M. F. HARRISON, The Nook, Dinting Rd., Glossop, Derbyshire.
 13,302 D. ELGIE, 330 Whitefoot Lane, Bromley, Kent.
 13,303 J. FAIRFAX, Dacre House, Stanley Green Rd., Poole, Dorset.
 13,304 A. CORLESS, 3 Greenherd Lane, Dalton, Huddersfield, Yorks.
 13,305 J. W. HARRIS, 17 Hilda Rd., Sheerness East, Kent.
 13,306 K. BUNDY, The Hollies, Norwich Ave., Bournemouth, Hants.
 13,307 W. E. ROBINSON, 12 The Plots, The Ave., Wembley, Middlesex.
 13,308 E. HIGGINS, 4 Sunny Bank, Sandwich Rd., Ellesmere Park, Eccles.
 13,309 H. F. CORNICK, 1 Clydach Rd., Enfield, Middlesex.
 13,310 D. KERR, 9 McKellar Avenue, Ardrossan, Ayrshire, Scotland.
 13,311 P. LLOYD, Pale Manor Staff Club, R.R.D.E., Malvern, Worcestershire.
 13,312 D. LOW, 49 Marnham Drive, Mapperley, Nottingham.
 13,313 M. OSLER, Poplars, Forest Town, Mansfield, Notts.
 13,314 S. H. ISLES, 13 North Street, Downend, Bristol, Glos.
 13,315 A. HODGKINS, 28 Queen Street, Louth, Lincs.
 13,316 H. S. DAWSON, 1 Davies Rd., West Bridgford, Notts.
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 13,318 G. ROWBOTTOM, 14 Dean Park Crescent, Edinburgh 4, Scotland.
 13,319 E. T. SNOWBALL, 52 Brampton Rd., Carlisle, Cumb.
 13,320 T. H. WRIGHT, 7 Longfield Lane, Cheshunt, Herts.
 13,321 D. P. THACKERAY, 97 Powder Mill Lane, Tunbridge Wells, Kent.
 13,322 J. HOLBOURN, 89 Whitehall Rd., Gravesend, Kent.
 13,323 J. MILLER, 7 The Cliff, Cinderhill, Nottingham.
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 13,325 B. C. COOPER, 11 De Vere Walk, Watford, Herts.
 13,326 H. PRIOR, 21 Mather Ave., Whitefield, Lancs.
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 13,328 K. V. HEGARTY, 29 Seymour Rd., Tilbury, Essex.
 13,329 O. JAMES, 14 Colosseum Terr., Albany St., London, N.W.1.
 13,330 E. W. PARSONS, 4 St. Ina Rd., Heath, Cardiff.
 13,331 P. H. HUNTER, 30 Collington Ave., Bexhill-on-Sea.
 13,332 H. TAYLOR, 1 Mortlake Rd., Ilford, Essex.
 13,333 K. S. MOSSMAN, 49 Southchurch Rd., East Ham, London, E.6.
 13,334 P. WOODHOUSE, 64 Wallend Rd., London, E.6.
 13,335 H. M. SYNGE, Dundoran, Vyner Rd., Birkenhead, Ches.
 13,336 E. R. CRANE, 29 Seymour Buildings, Seymour Place, London, W.1.
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 13,338 A. E. CULLINGTON, 101 Kingston Rd., Ipswich, Suffolk.
 13,339 J. J. HARBEE, 32 Susannah Street, London, E.14.
 13,340 W. MEDLAND, Deneholme, Ocean Rd., Hartlepool Station, Hartlepool.
 13,341 J. H. GIBBONS, 2 Albert Rd., Southall, Middlesex.
 13,342 J. C. TURNHAM, c/o 78 Cheam Rd., Ewell, Surrey.
 13,343 J. R. HUGHES, 6 Coronation Drive, Great Crosby, Liverpool 2.
 13,344 H. DRURY, Forge Farm, Bestwood, Nr. Nottingham.
 13,345 P. J. STERRY, 40 Westfield Rd., Barnehurst, Kent.
 13,346 A. BINSKIN, 25 Brunswick Rd., Bexley Heath, Kent.
 13,347 J. W. OWEN, 13 Arundel Rd., Oswestry, Salop.
 13,348 D. ANDERSON, 142 Tantallon Rd., Langside, Glasgow, S.1.
 13,349 K. HEBBLETHWAITE, Fair Holm, Days Lane, Biddenham, Nr. Bedford.
 13,350 F. HAIGH, 13 Eden Ave., Dewsbury Rd., Wakefield.
 13,351 R. W. GORDON, 37 Hathaway Drive, Giffnock, Scotland. (Transfer from Associate Grade.)
 13,352 F. BRAY, 38 Brownhill Rd., Holmbridge, Nr. Huddersfield.
 13,353 H. KELLY, 74 Honford Rd., Brownley Green, Wythen-shawe, Manchester. (Transfer from Associate Grade.)
 13,354 J. KIRK, 62 Arisaig Drive, Glasgow, S.W.2.
 13,355 R. BARNHAM, 3 Cotswald Rd., Penn Common, Wolverhampton, Staffs.
 13,356 B. W. DADSON, 22 Oakhurst Rd., West Ewell, Epsom, Surrey.
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 13,358 D. PRICE, The Cottage, Claybrooke Grange, Rugby, Warwickshire.
 13,359 R. G. LAY, The Bear, Tilehurst, Reading, Berks.
 13,360 D. J. O'CONNOR, 1 Beech Terrace, Abercrom, Mon.
 13,361 W. E. GOOCH, 13 Godolphin Terrace, Stoke, Devonport.
 13,362 J. L. SMITH, 20 Dukesthorpe Rd., Sydenham, London, S.E.26.
 13,363 C. ALLEN, 1 Meriden Avenue, Lenton Abbey, Beeston, Nottingham.
 13,364 R. ALLEN, 1 Meriden Avenue, Lenton Abbey, Beeston, Nottingham.
 13,365 G. REILLY, Myrescroft, Princess Rd., Bournemouth West, Hants.
 13,366 W. M. GREGORY, 363a Holloway Rd., London, N.7.
 13,367 H. I. HODGKINS, 15 Fourth Ave., Chelmsford, Essex.
 13,368 J. FIELDEN, Trem-y-Dwr, Salop Rd., Welshpool, Monts.
 13,369 A. S. BUTLIN, Newtown Street, Duns, Berwickshire.
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 13,371 W. POLLOCK, c/o 13 Merrick Gardens, Ibrox, Glasgow.
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 13,374 P. R. GOLLEGE, 151 Down Hall Rd., Rayleigh, Essex.
 13,375 W. R. SMITH, 115 Main St., Bonnybridge, Stirlingshire.
 13,376 F. W. TYLER, 4 Alexandra Ave., Luton, Beds.
 13,377 J. AILMORE, Codnor Lane, Codnor, Derbyshire.
 13,378 G. WEBB, 116 Cloudestley Rd., Islington, N.1.
 13,379 J. F. ROBINSON, 43 Garrick Rd., Greenford, Middlesex.
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 13,381 N. E. FRANKLIN, 1 Jubilee Terrace, Long Lane, Bexley Heath, Kent.
 13,382 S. T. CHADWICK, 68 George Street, Newcastle, Staffs.
 13,383 H. WRIGHT, 90 Harmston Rise, Heathfield Estate, Nottingham.
 13,384 J. TOWNSEND, Lower Goatacre, Nr. Calne, Wilts.
 13,385 R. L. WHOREWELL, 29 Aspiden Rd., Raymouth Road, Rotherhithe, London, S.E.16.
 13,386 L. T. RODDIS, 49 Norfolk St., Northampton.
 13,387 E. J. RIGBY, 47 Dockar Road, Northfield, Birmingham 31.
 13,388 D. W. COX, 56 Woodborough Road, Nottingham.

- 13,389 B. A. APPLESON, 9 Cambridge Rd., Hove, Sussex.
 13,390 J. E. CHANDLER, 35 Floriston Avenue, Hillingdon, Middlesex.
 13,391 G. F. BRAUMONT, 21 Hamilton Rd., St. Albans, Herts.
 13,392 D. C. LYALL (Major) c/o Lloyds Bank, Ltd., (Cox and Kings Branch), 6 Pall Mall, London, S.W.1.
 13,393 C. R. CARP, 450 Waterloo Rd., Hanley, Stoke-on-Trent, Staffs.
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 13,395 A. L. BASSETT, Red Dragon Relays, Burry Port, S. Wales.
 13,396 J. I. LONG, 89 Marshfield Road, Fishponds, Bristol, Glos.
 13,397 R. C. MURDEN, 4 Holmesdale Rd., Bexleyheath, Kent. (Transfer from Associate Grade).
 13,398 J. S. MURPHY, 3 Nelson Rd., S. Chingford, London, E.4.
 13,399 R. JARDINE, 11a Commercial Road, Strathaven, Lanarks, Scotland.
 13,400 R. P. TODD, 5 Arabella St., Roath Park, Cardiff, S. Wales.
 13,401 E. W. WALLACE, 1 Pantile Hill, Southminster, Essex.
 13,402 C. A. G. GREEN, Cocked Hat Farm, Thirsk, Yorks.
 13,403 C. M. CAMPBELL, 7 Ryddingwood, Penwortham, Preston, Lancs.
 13,404 R. L. GREGORY, Mote House, Courtland Ave., Mill Hill, London, N.W.7.
 13,405 G. L. BALL, 10 Augusta St., Llandudno, N. Wales.
 13,406 W. R. MARSHALL, 5 St. Nicholas Ave., Hesse High Rd., Hull, E. Yorks.
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 13,408 J. BEATTIE, 2 Johnmount Drive, Oldpark, Belfast, N. Ireland.
 13,409 N. B. BRIDGES, Enfield House, 19 Chase Side Crescent, Enfield, Middlesex.
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 13,413 D. C. WATSON, Traffic and Comm. Dept., Police H.Q., Hatfield, Herts.
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 13,416 R. HARDY, 37 Morley Street, Derby, Derbyshire.
 13,417 R. R. B. SMEE, Ewer Farm, Damases Lane, Boreham, Chelmsford, Essex.
 13,418 E. G. E. HOPKINS, 106 Kingswell Rd., Ensbury Park, Bournemouth.
 13,419 W. E. HARPER, 13 Montreal Rd., Brighton, Sussex.
 13,420 C. J. CARSON, Glenview, Newtownards Rd., Greyabbey, Co. Down, N. Ireland.
 13,421 G. J. ADDIS, 3 Barrington Drive, Glasgow, C.4.
 13,422 G. BOTTOMLEY, 6 Church View, Trawden Forest, Nr. Colne, Lancs.
 13,423 E. F. WILLIAMS, Woodstock, Reynards Rd., Welwyn, Herts.
 13,424 G. ELLIS, 113 Pickering Rd., Sheffield 3, Yorks.
 13,425 A. S. TREW, 71 College Place, London, N.W.1.
 13,426 E. WELLS, Hill Farm, Tarrant Keynton, Blandford, Dorset.
 13,427 G. GREEN, 30 Algernon Rd., Hendon, London, N.W.4.
 13,428 B. J. BAILEY, 15 Woodland Way, Winchmore Hill, London, N.21.
 13,429 A. GASKELL, 20 Nicholson Avenue, Macclesfield.
 13,430 C. PARSONS, 50 Riverdale Road, Rammoor, Sheffield, Yorks.
 13,431 J. CARRICK, c/o 103A Knights Hill, W. Norwood, London, S.E.27.
 13,432 J. MCEWAN, 26 Allanvale Rd., Prestwick, Ayrshire.
 13,433 A. MACINTOSH, 15 Newton Place, Glasgow, C.5, Scotland.
 13,434 A. B. STENT, Little Pardon Lodge, Nr. Harlow, Essex.
 13,435 A. E. FELGATE, Rydaldene, High Road, North Weald, Epping, Essex.
 13,436 H. PITCHER, 13 Kinghorn Rd., Norwich.
 13,437 R. BRAITHWAITE, Avonside Farm, Strathaven, Scotland.
 13,438 W. E. GIBSON, Eastwood, Nant-y-Glyn Rd., Colwyn Bay, N. Wales.
 13,439 P. J. SPROAT, 20 Nadean Rd., Handsworth, Birmingham.
 13,440 K. RIGBY, 290 Hamilton Street, Atherton, Lancs.
 13,441 W. J. BATES, 3 Ward Rd., Goldthorne Estate, Wolverhampton, Staffs.
 13,442 D. DELL, 32 Ecton Rd., Addlestone, Weybridge, Surrey.
 13,443 W. BEATON, 18 Barassie St., Troon, Ayrshire, Scotland.
 13,444 N. ROSKROW, 24 Devonshire Gdns., Chiswick, London, W.4.
 13,445 A. P. HARDING, 16 Newlands Park, Grove, Scarborough, Yorks.
 13,446 R. G. BROWN, 61 Debdon Gardens, Heaton, Newcastle-on-Tyne, 6.
 13,447 M. WHITE, 33 Blackstone Oval, Paisley, Scotland.
 13,448 F. R. WOOD, 173 Roundthorn Rd., Oldham, Lancs.
 13,449 A. H. SHEPPARD, 3G Abbey Orchard St., Westminster, London, S.1.
 13,450 J. AYRES, 42 Berrylands Rd., Surbiton, Surrey.
 13,451 S. BLOOMFIELD, 22 Church St., Troon, Ayr, Scotland.
 13,452 D. B. FOX, 6 Barnstaple Close, Thorpe Bay, Southend, Essex.
 13,453 D. F. KIRK, 40 Bonnington Cres., Sherwood, Notts.
 13,454 J. KEATING, Bridge Cottage, Drochduil, Dunragit, Nr. Stranraer, Scotland.
 13,455 V. HANDS, 16 Raw Nook Rd., Salendine Nook, Huddersfield, Yorks.
 13,456 E. AXON, 5 Winstanley Rd., Sale, Cheshire.
 13,457 A. J. DUFF, 14 Moresk Rd., Truro, Cornwall.
 13,458 A. COX, 41 Kingshead Lane, Uplands, Bristol, Glos.
 13,459 E. DANIELS, 16 Mount Drive, Urmston, Manchester.
 13,460 C. BUTTERY, 14 Brushfield Grove, Sheffield, Yorks.
 13,461 L. G. DRAKE, 12 Oddington Rd., Stow-on-the-Wold, Glos.
 13,462 R. N. HARRIS, 19 Ladbroke Crescent, North Kensington, London, W.11.
 13,463 J. S. EYRE, Mont Orgueil, Keyingham, E. Yorks.
 13,464 L. S. REES, 82 Norris Rd., Sale, Cheshire.
 13,465 H. A. TURTON, 428 Binley Rd., Binley, Coventry.
 13,466 L. F. DRIES, 70 Diana Rd., Walthamstow, London, E.17.
 13,467 L. LEWIS, Electricity Dept., Kings Rd., Holyhead, N. Wales.
 13,468 J. GILLIES, 18 Caledonia Rd., Ardrossan, Ayrshire.
 13,469 H. W. ASHLEY, 177 Alma Street, West Hartlepool, Co. Durham.
 13,470 A. BUTLER, 14 Shaw Heath View, Mobberley Rd., Knutsford, Cheshire.
 13,471 D. V. NEWPORT, 250 St. Johns Lane, Bristol, 3, Glos.
 13,472 J. LYONS, 89 Chestnut Drive, Erdington, Birmingham, 24.
 13,473 J. H. COOK, Oakland Cottages, Albert Avenue, Jacksdales, Notts.
 13,474 R. WILKINSON, 318 Broadway, Horsforth, Nr. Leeds, Yorks.
 13,475 B. TRIPLETT, 251 Oldham Rd., Middleton, Lancs.
 13,476 G. HERRING, 3 Summer Street, Glossop, Derbyshire.
 13,477 D. WINGROVE, 208 Laund Rd., Salendine Nook, Huddersfield, Yorks.
 13,478 W. CUNNINGHAM, The Raining, High Rd., Saltcoats, Ayr.
 13,479 A. J. WATT, Break Plough, Stevenston, Ayr, Scotland.
 13,480 H. G. TUBE, 26 Home Close, Wolvercote, Oxford.
 13,481 W. WEATHERLY, 48 Edgar Rd., Yiewsley, Middlesex.
 13,482 E. S. OVERTON, 85 Windsor Street, Wilton Road, Salisbury, Wilts.
 13,483 S. J. JONES, 4 College Street, Salisbury, Wilts.
 13,484 R. H. COOK, 63 Cowslip Hill, Letchworth, Herts.
 13,485 G. W. DAVEY, 23 Turk Street, Portsmouth, Hants.
 13,486 R. FORSTER, 116 Waldgrave Road., Wavertree, Liverpool, 15.
 13,487 S. TYM, 57 Mountview Rd., Stroud Green, London, N.4.
 13,488 F. THOMPSON, 96 Broadway, Sheriff Hill, Gateshead-on-Tyne.
 13,489 J. WORDSWORTH, Glenhaven, Cliff Road, Wembury, Devon.
 13,490 J. H. WATT, 57 Birches Road, Codsall, Nr. Wolverhampton, Staffs.
 13,491 D. WIGGANS, Dunsterlea, Rochdale, Lancs.
 13,492 R. O. JONES, 35 High Street, Bangor, N. Wales.
 13,493 W. E. LILLEY, Manora, Point Clear, Clacton-on-Sea, Essex.
 13,494 A. PARK, M.C.A. Radio Station, Ronaldsway, Isle of Man.
 13,495 E. PRESTON, Wescombes Newsagency, 11 East Reach, Taunton, Somerset.
 13,496 A. G. BAKER, 98 Elmgrove Crescent, Harrow, Midxs.
 13,497 S. D. TOVEY, 114 Buckhurst Way, Buckhurst Hill, Essex.
 13,498 H. PUGSLEY, Greenfield House, Morthoe Station, Woolacombe, Devon.
 13,499 G. BARKER, 12 Park Rd., Hayling Island, Hants.
 13,500 R. CRIETHAM, 44 Crossfield Rd., Cheadle Hulme, Ches.
 13,501 N. DAVIES, 65 Rydal Rd., Heaton, Bolton, Lancs.
 13,502 H. J. RICHARDS, Meadow-Lea, Gweek, Nr. Helston, Cornwall.
 13,503 J. BOREHAM, 110 Chobham Rd., Stratford, London, E.15.
 13,504 J. DAVISON, Alexander House, Obins St., Portadown, N. Ireland.
 13,505 K. SHAW, 57 Sheep Street, Northampton.
 13,506 C. L. POTTER, 988 Cambridge Rd., Hitchin, Herts.
 13,507 D. RAYNER, 12 Council Houses, Poringland, Norwich.
 13,508 H. NEWTON, 20 Green Lane, Allerton, Liverpool, 18.
 13,509 J. PIGGOTT, 29 Gregory St., Ilkeston, Derbyshire.
 13,510 G. PITCHER, 100 (Basement) Burnt Ash Hill, Lee, London, S.E.12.
 13,511 J. WIGHTMAN, Main Street, Dailly, By Girvan, Ayrshire.
 13,512 R. KNOWLES, 24 Regent St., St. Thomas, Exeter, Devon.
 13,513 J. TERNETT, 15 Seafeld, Eyemouth, Berwickshire.
 13,514 H. KYNNESELEY, 145 Sandgate Rd., Hall Green, Birmingham, 28.
 13,515 J. GODFREY, 19 Bullen Street, London, S.W.11.
 13,516 G. WATSON, 96 Princethorpe Rd., Ipswich, Suffolk.
 13,517 J. HILLS, 9 Camden Place, Preston, Lancs.
 13,518 J. FIRTH, 18 Stanhope Drive, Horsforth, Nr. Leeds, Yorks.
 13,519 H. AMBRIDGE, 243 Luton Road, Chatham, Kent.
 13,520 G. HARDY, 65 Columbia Av., Sutton-in-Ashfield, Notts.
 13,521 R. H. BOUNDS, 16 Fairview Rd., Penn, Wolverhampton, Staffs.
 13,522 H. BERTOYA, 133 Ardleigh Green Rd., Hornchurch, Essex.
 13,523 P. HERSEY, 228 Preston Rd., Wembley, Middlesex.
 13,524 A. E. GYORY, 28 Dukes Avenue, Princes Drive, Harrow, Middlesex.
 13,525 W. BENNETT, 198 Wellington Rd., South, Stockport, Cheshire.
 13,526 A. DENTON, 13 Effra Rd., Brixton, London, S.W.2.
 13,527 R. WARBURTON, 17 The Close, Treneere Estate, Penzance, Cornwall.
 13,528 W. NUTTALL, Wavenden, Carmen Sylva Rd., Llandudno.
 13,529 Miss J. M. MITCHELL, 38 Kenilworth Avenue, Walthamstow, London, E.17.

- 13,530 H. G. KIMBER, 10 Glenbeck Road, Whitefield Nr. Manchester.
- 13,531 D. BOLTON, 3 Laurel Bank, Finchley Park, London, N.12.
- 13,532 A. D. CHATTERTON, 18 Shakespeare Avenue, New Southgate, London, N.11.
- 13,533 N. F. LAKE, 45 Ward Rd., Eastney, Southsea, Hants.
- 13,534 H. NICHOLSON, 574 Harcourt Rd., Sheffield, 10.
- 13,535 J. H. RAYNER, 124 Northumberland Park, Tottenham, London, N.17.
- 13,536 B. CUTTER, 5 Phoenix Street, Goole, Yorks.
- 13,537 E. R. CARDER, 53 Gipsy Lane, Nuneaton, Warwickshire.
- 13,538 H. W. FORREST, 67 Burman Rd., Shirley, Birmingham.
- 13,539 K. B. ORTON, 26 East Goscoe Street, Highfields, Leics.
- 13,540 H. N. JEFFERY, Rosebank, Boorley Green, Botley, Southampton, Hants.
- 13,541 R. W. BALDERSTON, 21 Newtown, Thetford, Norfolk.
- 13,542 R. J. DAVEY, 12 Elsie Rd., Dulwich, London, S.E.22.
(Transfer from Associate Grade.)
- 13,543 Mrs. D. COLLARD, 102 Lower Oldfield Park, Bath, Som.
(Transfer from Associate Grade.)
- 13,544 W. BLACKLER, 18 Eton Street, Walton, Liverpool, 4.
- 13,545 N. P. STREET, Dog House, Hankham, Pevensy, Sussex.
(Transfer from Associate Grade.)
- 13,546 H. T. MACKIE, Lambert Drive, Dunfermline, Fife.
- 13,547 G. BEARDSHAW, 67 Norwood Rd., Pitsmoor, Sheffield, 5.
- 13,548 R. JACKSON, 24 Bramshill Gardens, London, N.W.5.
- 13,549 R. L. GILBERT, Clare College, Cambridge.
- 13,550 A. P. JONES, 12 Tibland Road, Birmingham, 27.
- 13,551 D. E. WARREN, 9 Mitchell Street, Weymouth, Dorset.
- 13,552 A. SIMPSON, 6 Clifford Place, Glasgow, S.W.1.
- 13,553 T. F. HARVEY, 54 Western Rd., Wolverton, Bucks.
(Transfer from Associate Grade.)
- 13,554 T. O'CONNOR, 44 Flora Street, Salford, 7, Lancs.
- 13,555 A. HARRIS, 82 Edgware Way, Edgware, Middlesex.
(Transfer from Associate Grade.)
- 13,556 W. MCCLANAHAN, Ambleside, Magheralane Rd., Lisburn, N. Ireland.
- 13,557 W. FORBES, Achvarasdal Gdns, Reay, Thurso, Caithness.
- 13,558 J. MCCLIMONT, Ormlie, Strathaven, Lanarkshire.
- 13,559 P. L. BAIN, 48 Nelson Rd., New Malden, Surrey.
- 13,560 F. FOYARGUE, 39 Hare Street, Grimsby, Lincs.
- 13,561 R. HOOKER, 6 Newfield Crescent, Hamilton, Scotland.
- 13,562 L. F. GOSDEN, Torweigan, Halliford Rd., Sunbury-on-Thames, Middlesex.
- 13,563 G. N. SMITH, 109 Mile End Lane, Stockport, Cheshire.
- 13,564 A. THORNECROFT, 19 Devonshire Rd., Davenport Park, Stockport.
- 13,565 R. ELLIS, 15 Ovington Terrace, Llandaff, Cardiff.
- 13,566 J. F. DAVIS, 23 Carnarvon Rd., Redland, Bristol, 6, Glos.
- 13,567 V. REGAN, 15 Beaumont Av., Clacton-on-Sea, Essex.
- 13,568 J. J. POTTER, 14 Ridgeview Rd., Mays Lane, Barnet, Herts.
- 13,569 J. TREBY, 24 Freemantle Rd., Barking, Ilford, Essex.
- 13,570 E. STALLWORTHY, 6 The Pines, Stifford Clays, Grays, Essex.
- 13,571 G. NICOLL, 2 Rollands Wynd, Tayport, Fife, Scotland.
- 13,572 E. SWITHINBANK, 30 Hawksley Rd., Hillsborough, Sheffield, 6, Yorks.
- 13,573 H. CHAPMAN, 13 Galway Place, Beeston Rd., Leeds, 11, Yorks.
- 13,574 N. T. NUTTALL, 9 Gorse Rd., Blackpool, Lancs.
- 13,575 G. CURTIS, Kneeton, East Bridgford, Nottingham.
- 13,576 C. TAYLOR, 1294 Copt Heath, Knowle, Warwickshire.
- 13,577 S. GRAVES, 18 Wear Terrace, Witton-le-Wear, Bishop Auckland, Co. Durham.
- 13,578 F. YEATES, Lanehead Mellor, Nr. Stockport, Cheshire.
- 13,579 W. C. AUSTEN, Vine Cottage, Cambridge Road, Waterbeach, Cambs.
- 13,580 J. O. WEST, 105 Sylvan Way, Sea Mills, Bristol, 9, Glos.
- 13,581/XABU MAJOR I. MCANSH, R. Signals, Dodecanese Signal Squadron, M.E.L.F., 2.
- 13,582 G. B. PORTER, 53 Ravensfield Gardens, Stoneleigh, Epsom, Surrey.
(Transfer from Associate Grade.)
- 13,583 C. BOURNE, 141 All Souls Avenue, Willesden, London, N.W.10.
- 13,584 A. TINGLE, 341 Market Street, Droylsden, Manchester, Lancs.
- 13,585 A. W. SHEPPARD, Galan-Hurst, Fosse Road, Farnon, Newark, Notts.
- 13,586 R. G. BAMBER, The Limes, Fulwood Hall Lane, Fulwood, Preston.
- 13,587 G. RIOCREUX, 6 Barn Hill Road, Wembley, Middlesex.
- 13,588 H. OLDALD, 16 Nursery Road, North Anston, Nr. Sheffield, Yorks.
- 13,589 S. T. SMITH, 35 Claremont Rd., Westcliff-on-Sea, Essex.
- 13,590 D. W. DAVIDSON, Arrochar, Arthog Rd., Hale, Cheshire.
- 13,591 T. PARROCK, 10B Carillon Road, Bournemouth, Hants.
- 13,592 S. HORNE, 47 Spring Gardens, Hazel Grove, Nr. Stockport, Cheshire.
- 13,593 E. HILLYARD, Sunnyside, Third Avenue, Devonport, Portsmouth, Hants.
- 13,594 G. BOWEN, 7 Anchorage Close, London, S.W.19.
- 13,595 A. G. ELLIS, 124 Wesley Avenue, Hounslow, Middlesex.
- 13,596 H. C. WATSON, 227 Cemetery Road, Lidget Green, Bradford, Yorks.
- 13,597 D. BARNES, 74 Mayfield Road, Sanderstead, Surrey.
- 13,598 G. B. RANKIN, 15 Woodburn Terrace, Edinburgh 10, Scotland.
- 13,599 D. ACORNLEY, 14 Bulls Head Cottage, Turton, Nr. Bolton, Lancs.
- 13,600 D. WARDMAN, 579 Wakefield Road, Waterloo, Huddersfield, Yorks.
- 13,601 A. HAWKINS, 19 Western Avenue, Ashford, Kent.
- 13,602 A. BONNAR, 29 Apsley Street, Partick, Glasgow, W.1, Scotland.
- 13,603 F. J. TAYLOR, 228 Robin Hood Lane, Hall Green, Birmingham 28.
- 13,604 W. ABEL, 143 Fisherton Street, Salisbury, Wilts.
- 13,605 W. WHITE, 5 Dapdune Road, Guildford, Surrey.
- 13,606 G. J. KING, 1 Grasmere Avenue, Crofton Road, Orpington, Kent.
- 13,607 R. CLARE, 40 Raeburn Avenue, West Kirby, Cheshire.
- 13,608 A. G. WOOD, Holmeside, Heath Road, Leighton Buzzard, Beds.
- 13,609 H. DRAPER, 12 Dover Road East, Gravesend, Kent.
- 13,610 R. CLEMENTS, 104 Clarendon Road, Luton, Beds.
- 13,611 F. ANDREWS, 13 Seagrave Rd., Fulham, London, S.W.6.
- 13,612 S. MERRYWEATHER, 60 Croft Road, Cosby, Leicester.
(Transfer from Associate Grade.)
- 13,613 E. HARTLEY, 17 Earsham Street, Bungay, Suffolk.
- 13,614 J. F. SHORE, 47 Turreave Avenue, Donnington, Salop.
- 13,615 J. BURNSIDE, 115 St. Quivox Rd., Prestwick, Ayrshire.
- 13,616 R. V. BATES, 149 Richmond Rd., Hackney, London, E.8.
- 13,617 P. C. HOWELL, 98 Palace Gardens Terrace, Kensington, London, W.8.
- 13,618 B. MARSDEN, 2 Sunny Drive, Prestwich, Manchester, Lancs.
- 13,619 R. G. DAY, 1 Roseville Villas, Roseville Street, St. Helier, Jersey, Channel Islands.
- 13,620 P. HATFIELD, Belgrano, Wodeland Avenue, Guildford, Surrey.
- 13,621 W. WRIGHT, 36 Argyle Street, Glascoate, Nr. Tamworth, Staffs.
- 13,622 I. HOUGH, 35 Wells Rd., Penn, Wolverhampton, Staffs.
- 13,623 G. WILSON, 27 Rosewood Terrace, Rothill-on-Tyne, Northumberland.
- 13,624 P. WILLIS, Martin-Delle, Anstey Lane, Alton, Hants.
- 13,625 I. L. HOLMES, Miami, The Close, Kettering, Northants.
- 13,626 Miss J. HANDLEY, 266 Bury New Road, Hr. Broughton, Salford.
- 13,627 E. BARRATT, 79 Greenway, Pinner Hill, Pinner, Midx.
- 13,628 H. WHITFIELD, 183 Carr House Road, Hyde Park, Doncaster, Yorks.
- 13,629 A. HUNT-DUKE, 2 Hazelwood Houses, New Street, Ash Canterbury.
(Transfer from Associate Grade.)
- 13,630 M. BOWLES, 31 St. Peter's Square, Cheltenham, Glos.
- 13,631 E. H. JONES, Fairfield, Chestfield Road, Chestfield, Nr. Whitstable, Kent.
- 13,632 J. COLTON, 18 Bureleigh Rd., W. Bridgford, Nottingham.
- 13,633 C. C. WILSON, 107 The Promenade, West Kirby, Wirral, Cheshire.
- 13,634 G. RAWLINGS, 27 Mudie House, Clapham Park Estate, London, S.W.2.
- 13,635 H. HILL, 8 Gloucester Drive, Finsbury Pk., London, N.4.
- 13,636 J. WATSON, Croftlands, Woodplumpton, Nr. Preston, Lancs.
- 13,637 E. THORNE, 23 Seawall Road, Carlisle, Cumbs.
- 13,638 R. H. SMITH, 345 Lady Margaret Rd., Southall, Midx.
- 13,639 F. BENNETT, 15 Addison Rd., Milber, Newton Abbot, Devon.
- 13,640 N. BENNETT, 109a Church Street, Croydon, Surrey.
- 13,641 N. COCKROFT, 306 Leicester Road, Wigston, Leicester.
- 13,642 J. DINGLEY, 207 Lichfield Road, Sheffield, Nr. Walsall, Staffs.
- 13,643 E. READ, 28 Matfield Road, Upper Belvedere, Kent.
- 13,644 H. MCGHEE, 4 Windsor Place, Shotts, Lanarkshire, Scotland.
- 13,645 S. GABRIEL, 10 Abbotsford Place, Glasgow, C.5, Scotland.
- 13,646 F. POTTER, Scarsdale, Vansittart Rd., Torquay, Devon.
- 13,647 P. L. STRIDE, 52 Sussex Road, Ickenham, Middlesex.
- 13,648 L. GENT, 109 Drummond Drive, Stanmore, Middlesex.
- 13,649 N. GRAHAM, Denton Hotel, Denton Burn, Newcastle-on-Tyne, 5.
- 13,650 E. HUMPHREYS, 28 Cowley Road, Uxbridge, Middlesex.
- 13,651 M. THOMAS, 33 Frampton Road, Gorscino, Glam., S. Wales.
- 13,652 R. G. SMITH, 12 Ladbroke Drive, Potters Bar, Midx.
- 13,653 D. TAYLOR, Longley, Chiltern Drive, Hale, Cheshire.
- 13,654 S. DAVIS, 32 Waverley Road, Southsea, Hants.
- 13,655 M. COOPER, 84 Woodland Way, Winchmore Hill, London, N.21.
- 13,656 D. K. SMITH, Bellevue, Dales Road, Peterhead, Scotland.
- 13,657 N. WALKER, 6 East View, Lindal-in-Furness, Nr. Ulverston, Lancs.
- 13,658 A. BATES, 311 Huddersfield Road, Stalybridge, Cheshire.
- 13,659 J. MCGILL, 6 Barrie Avenue, Dumfries, Scotland.
- 13,660 D. ATKINSON, Fernleigh, Aldborough, Boroughbridge, Yorks.
- 13,661 A. FENN, 95 Oxford Road, Cowley, Oxford.
- 13,662 T. PURLING, 15 Eagle Street, Norwich.
- 13,663 R. RANDELL, 10 Penygroes Rd., Whitechurch, Cardiff.
- 13,664 A. MILLINGTON, 31 Mill Lane, Darton, Nr. Barnsley, Yorks.
- 13,665 J. SCOTT, Roker, Kennedy Drive, Airdrie, Scotland.
- 13,666 G. BROWN, 18 Amble Grove, Sandyford, Newcastle-on-Tyne 2.
- 13,667 F. GRIFFITHS, 5 Swanage Road, Small Heath, Birmingham 10.
- 13,668 W. BLACKBOROW, 36 South Park Rd., Gatley, Cheshire.

- 13,669 W. WORTHINGTON, 18 Queen's Way, Heald Green, Cheshire.
- 13,670 R. JACK, Woodview, Old Edinburgh Road, Dalkeith, Scotland.
- 13,671 A. BUSFIELD, Overdale Lane, Walton-le-Dale, Preston, Lancs.
- 13,672 K. RICHARDSON, 17 Meredale Road, Mossley Hill, Liverpool 18, Lancs.
- 13,673 C. GIBBINS, The White House, West End, Herne Bay, Kent. (Transfer from Associate Grade.)
- 13,674 G. BELL, La Loggia, Oak Road, Rochford, Essex.
- 13,675 T. SAVILE, 25 Valleyfield Street, Glasgow, N. Scotland.
- 13,676 B. JOHNSON, 35 Heath Road, Barming, Maidstone, Kent.
- 13,677 R. WIGGLESWORTH, 100 Argyle Street, Hull, Yorks.
- 13,678 W. WIBBERLEY, 21 Pauline Ave., Belgrave, Leicester.
- 13,679 W. GRIFFIN, 57 Hodder Drive, Perivale, Greenford, Mdx.
- 13,680 D. WELLS, 21 Ivanhoe Avenue, Attleborough, Nuneaton, Warwickshire.
- 13,681 G. GRIFFITHS, County Police Station, Baker Street, Abergavenny.
- 13,682 H. WATTS, 64 Portland Road, Worthing, Sussex. (Transfer from Associate Grade.)
- 13,683 F. WISDOM, Tren-Com, Gubbins Lane, Harold Wood, Romford, Essex.
- 13,684 A. STRINGER, 6 School Hill, Chapel End, Nuneaton, Warwickshire. (Transfer from Associate Grade.)
- 13,685 W. DIDCOTE, c/o 41 Mill Street, Abergavenny, Mon.
- 13,686 J. SHARPES, Nasha Doma, Snoedon Street, Barton, Northwich, Cheshire.
- 13,687 J. HUGHES, 36 Gauze Street, Paisley, Scotland.
- 13,688 L. J. ROWE, 31 The Green, Calne, Wilts.
- 13,689 L. Fearby, 25 Albert Drive, Low Fell, Gateshead-on-Tyne, 9.
- 13,690 P. RAMSDEN, 92 St. Enoch's Road, Wibsey, Yorks.
- 13,691 A. HICKLING, 179 Barnsley Road, Wombwell, Nr. Barnsley, Yorks.
- 13,692 K. ASH, Bower Hill Cottage, Repton, Derby.
- 13,693 M. BECK, 8 The Oval, Allerton Road, Bradford, Yorks.
- 13,694 W. RADBURN, 114 Addison Road, Coventry.
- 13,695 K. H. LONG, 23 Queen's Road, Mumbles, Swansea, Glam.
- 13,696 H. GOLDTHORP, 58 North Lonsdale St., Stretford, Lancs.
- 13,697 H. MUNN, 7 Lansdowne Place, Perry Street, Northfleet, Kent.
- 13,698 D. BRANHAM, 112 Hawthorn Road, Chorlton-cum-Hardy, Manchester, 21.
- 13,699 W. ANDERSON, c/o 12 Greenlaw Drive, Paisley, Scotland.
- 13,700 G. W. ANDERSON, 25 Blacket Place, Edinburgh, Scotland.
- 13,701 H. LAVERY, 4 Townsend Road, Rugby, Warwickshire.
- 13,702 N. JUKES, 40 Ayre Road, Birmingham, 24.
- 13,703 P. PRINGLE, 25 Portland Road, Wyke Regis, Weymouth, Dorset.
- 13,704 M. BROWNE, 10 Newker Crescent, Chester-le-Street, Co. Durham.
- 13,705 W. CROSS, 102 Victoria Road, Aston, Birmingham.
- 13,706 E. BAERSELMAN, 25 Heather Drive, Maidstone, Kent.
- 13,707 D. L. SINGER, 29 Castle Avenue, Highams Park, London, E.4.
- 13,708 J. GALLANAN, 8 Tennyson Road, Ashford, Middlesex.
- 13,709 K. PROCTOR, 63 Thackeray's Lane, Woodthorpe, Nottingham.
- 13,710 R. LESLIE, 89 Hurstfield Crescent, Hayes, Middlesex.
- 13,711 C. HOWE, Felsham Road, Rattlesden, Bury St. Edmunds, Suffolk.
- 13,712 MRS. N. T. GELL, Roseneath, Fareham, Hants.
- 13,713 D. CHAMBERS, 15 Gibraltar Road, Halifax, Yorks.
- 13,714 W. GRAHAM, 62 Queen's Drive, Glasgow, Scotland.
- 13,715 J. PETRIE, 18 Caldwell Avenue, Knightswood, Glasgow.
- 13,716 W. WILKINSON, 11 Montrose Avenue, Woodmoor, Stockport, Cheshire.
- 13,717 C. WEEKES, 64 Carrington Road, Flixton, Manchester.
- 13,718 J. DAVIDSON, 24 Sinclair Street, Stevenston, Ayrshire.
- 13,719 J. BROUGHAN, 44 Hillside Terrace, Thornliebank, Glasgow, Scotland.
- 13,720 V. G. SCAMBELL, Apple Garth, Green Lane, Shanklin, Isle of Wight.
- 13,721 J. BARTON, 5 Wampool Street, Silloth, Cumb.
- 13,722 A. MACGOWAN, 52 Hungerford Road, York Way, London, N.7.
- 13,723 S. HENDERSON, 8 Culverhay, Ashted, Surrey.
- 13,724 G. WILLIAMSON, 6 Oaklands Avenue, Cheadle Hulme, Cheshire.
- 13,725 J. NIXON, 25 Albert Terrace, Scotia Road, Tunstall, Staffs.
- 13,726 W. FRASER, 278 Stonelaw Road, Rutherglen, Scotland.
- 13,727 N. NICHOLLS, 20 Ennismore Ave., Chiswick, London, W.4.
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- 13,740 P. DADSWELL, 14 Williamson Road, Ashley Down, Bristol, 7, Glos.
- 13,741 F. JONES, The Hollies, Heamoor, Penzance, Cornwall.
- 13,742 D. SACREE, 156 Canterbury Road, Folkestone, Kent.
- 13,743 S. HUNT, Stourton View, East Stour, Gillingham, Dorset.
- 13,744 E. WOODHAM, 48 Walton Road, Sidcup, Kent.
- 13,745 M. ELLIS, 14 Cornmarket Street, Oxford.
- 13,746 G. MERCEUR, 255 Bitterne Road, Bitterne Park, Southampton.
- 13,747 A. NASH, School House, Christ Church, Coleford, Glos.
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- 13,749 J. BROUGH, 105 Wakefield Road, Earsheaton, Dewsbury, Yorks.
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- 13,762 P. STEVENSON, 414a Flixton Road, Flixton, Manchester, Lancs.
- 13,763 N. R. SMITH, 26 Victoria Road, Clacton-on-Sea, Essex.
- 13,764 F. HART, Mossley, Barnards Green, Malvern, Worcs.
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- 13,808 B. LEACH, Liss-Cood, Stratford Rd., Stroud, Glos.
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- 13,810 J. M. DRAPER, Ivybank, Burns, Fawkham, Kent. (Transfer from Associate Grade.)

R.S.G.B. BULLETIN

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BAND PLANNING

JUST before the retirement of the 1946 Council the 14 members present at the meeting were invited to record their views informally on the question "Do you favour Band Planning?" When the count was taken it was found that seven had voted in favour and seven against, a result that reminded us of pre-war Convention meetings when such hardy annuals as "phone on 40" and "District Notes" invariably produced a 50-50 vote.

Since the recording of Council's opinion we have made enquiries in various parts of the country, and have discovered that whilst certain groups of members are strongly in favour of band planning, others are just as strongly opposed to it.

If band planning had been suggested to the G.P.O. before the war, it would undoubtedly have been rejected, because we were then licensed as *experimenters*, and as such we were free to use any part of any amateur band for any type of authorised emission (within the limits of our individual licences). To-day, of course, things are different. We are no longer regarded officially as experimenters, although it is probably true to say that more genuine experimental work is being carried out than ever before. Because of our changed status the G.P.O. would no doubt be willing to modify our licences in such a way as to make it compulsory for us to restrict our telegraphy and telephony transmissions to specific parts of the various bands allotted to us. But do we really want to be restricted? That is the crux of the whole matter.

The G.P.O. will most certainly *not* agree to band planning unless the Society can give them an assurance that an overwhelming majority of transmitting amateurs are in favour of the proposal.

Having studied numerous "perfect" plans and having listened to the pros and cons, we have come to the conclusion that there is only one way to discover whether Band Planning is really wanted, and that is to take a *national* vote on the issue.

Until the result of the vote is known it seems useless to consider detailed plans, but we think that it may help members if we mention two important features of band planning which may not be fully appreciated.

- (1) Band Planning on the DX bands (7, 14 and 28 Mc/s.) is unlikely to succeed unless all other countries can be induced to adopt the master plan.
- (2) With U.S. phone channels firmly established in the 14 and 28 Mc/s. bands, amateurs in the rest of the world are already restricted to a considerable extent.

There are to-day close upon 5,000 licensed amateurs in Great Britain and approximately 90 per cent. of them are members of the Society. If the referendum shows that a large majority favour some form of band planning, the Council will be in a position to consider in further detail the numerous proposals that have been put forward. If, on the other hand, the majority indicate that they are opposed to the principle, then the Council will be justified in leaving the whole matter in abeyance until such time as new circumstances may necessitate a return to the discussion.

It seems only fair to remind members that any band planning measures adopted during 1947 may have to be modified next year when the decisions reached at the forthcoming International Conference become effective. It is early days yet to forecast the outcome of the Conference, but it is already well-known that several nations favour the allocation of smaller but fully exclusive bands to amateurs. If this choice finally prevails, it may not be wise to restrict our activities unduly at the present time. However, the issue is quite straightforward. Do you or do you not favour band planning?

Postcards only please to Headquarters.

The form is simple. Write either

I am in favour of band planning on the Mc/s. band(s). (State which of the bands 1.7, 3.5, 7, 14, 28, you wish to include.)
or

I am not in favour of band planning on any band.

Sign the card and give your call-sign.

DON'T DELAY—WRITE TO-DAY.

HEADQUARTERS' CALL SIGN
WILL BE

GB1RS

A V.H.F. SIGNAL GENERATOR or FREQUENCY METER †

By J. G. RATCLIFF, B.A. (BRS3381)*

Introduction

WHEN it was decided to start experimental work on V.H.F. receivers, it at once became apparent that nothing worthwhile could be achieved without an accurately calibrated signal generator. In fact to do the job properly an instrument capable of providing the following facilities was desirable:—

- (1) A signal generator—tone modulated if required.
- (2) A reacting-detector receiver.
- (3) Crystal frequency-checking for (1) and (2).
- (4) An indicator for checking the resonant frequencies of tuned circuits or aërials.

Upon consideration it was realised that a single-valve oscillator covering a sufficiently wide frequency-range with plug-in coils and provided with suitable external circuits, could perform this wide range of functions.

If the grid-leak of the oscillator is kept high and it is provided with regeneration control, it will serve as a reasonably sensitive receiver to receive either signals external to the instrument or frequency check-points generated within the instrument. When in the oscillating condition the same valve will function as a signal generator, the carrier of which may be tone-modulated by a separate valve if required. Again if provision is made to measure the R.F. voltage on its grid, the sudden change, caused by its frequency coinciding with that of an external tuned circuit coupled to it, enables it to be used as a resonance indicator. In this manner an instrument of considerable versatility is brought within a very reasonable compass.

Circuit Summary

The heart of the whole instrument, which in its final form incorporates seven valves—shown in Fig. 1 as a block diagram—is the Acorn oscillator with plug-in coils covering the frequencies 5–250 Mc/s.

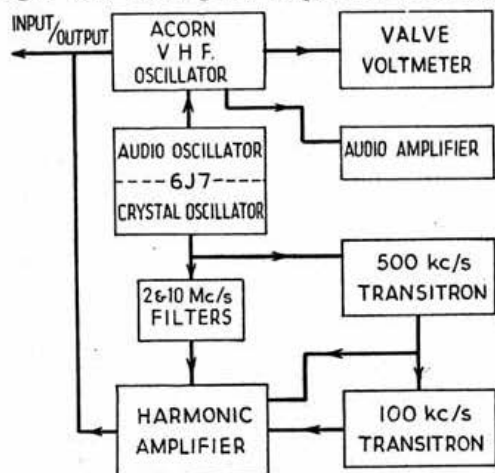
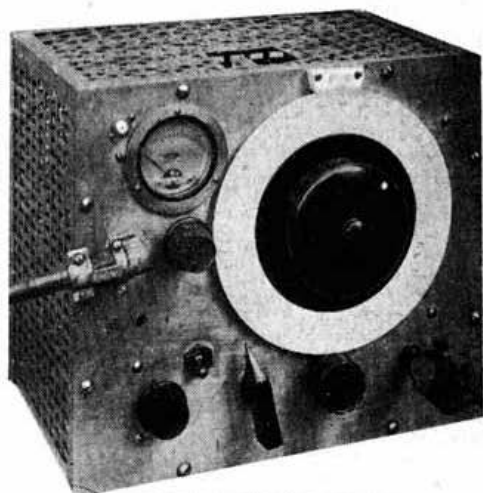


Fig. 1.
Block diagram of the frequency meter.

† (Prov. Pat. No. 26080, dated 30 Aug. 1946).

* The Warren, Dorridge, Warwickshire.



FRONT VIEW OF THE INSTRUMENT.

The various controls reading from left to right along the bottom are crystal trimmer (C13), R.F. oscillator H.T. on/off switch (S6), main selector switch (S1–S5), regeneration (R7). The input/output feed is on the left alongside the meter zero adjustment (R37). The meter shunt switch (S7) is to the left of the meter.

in six ranges. The anode circuit of this valve is coupled to a high-gain amplifier for use when the set is acting as a receiver of outside signals, or for obtaining frequency check-points. Its grid circuit is connected to a valve-voltmeter for resonance indication.

The 6J7 valve, which functions as a crystal oscillator can, if required, be converted into an audio oscillator to anode-modulate the H.F. oscillator. Otherwise it acts as a crystal oscillator on 2 Mc/s., its output being taken via two band-pass filters to a harmonic amplifier before being returned to the Acorn oscillator. It was found that, as the frequency of the Acorn oscillator rose above say 30 Mc/s., it became difficult to count the 2 Mc/s. whistles. Accordingly a 10 Mc/s. filter was incorporated to separate out the 5th harmonic of the crystal before amplification. If desired, the filter may be switched in, in the place of the usual 2 Mc/s. tuned circuit, to give added strength to the harmonics of 10 Mc/s. for identification.

To provide frequency check-points closer than 2 Mc/s. for the lower frequencies, either one or two transitron oscillators may be switched in to give points every 500 kc/s. or every 100 kc/s. apart. These two oscillators are locked to the 2 Mc/s. oscillator and are therefore quite as accurate as the crystal itself. The various functions of the instrument are selected by a six-position five-pole switch. The functions of each switch position are summarised below.

Position 1.—No crystal check points. Set working as unmodulated oscillator, receiver or resonance indicator.

Position 2.—As Position 1, but output modulated. Phones shorted out.

Position 3.—2 Mc/s. crystal oscillator working into 10 Mc/s. filter. 10 Mc/s. points strong, 2 Mc/s. points weaker.

Position 4.—2 Mc/s. crystal oscillator working into 2 Mc/s. filter. All 2 Mc/s. points of similar strength.

Position 5.—As Position 4, but with 500 kc/s. transition oscillator working.

Position 6.—As Position 4, but with 500 and 100 kc/s. transition oscillators working.

The Acorn oscillator, audio amplifier and valve-voltmeter are operative throughout.

The Acorn Oscillator

In an endeavour to obtain superior frequency stability, the Acorn oscillator was built on a separate sub-chassis bolted only to the panel, an arrangement which also provided an easy means for removing and reconstructing this portion without disturbing the rest of the instrument.

So far as frequency stability was concerned it was a doubtful advantage, since flexing the main chassis altered the space between it and the sub-chassis, thus giving a frequency shift. Although it is certainly an advantage to be able to remove a portion of the chassis easily, the main virtue of this arrangement is that if the main chassis is flexed, no strain is thrown on the sub-chassis.

The sub-chassis is of box construction, employing a combination of half-hard 16 gauge brass and Perspex. The valve-holder, variable condenser and components are mounted on a sheet of $\frac{3}{8}$ in. Perspex to reduce stray capacities, and the coil and coil guides are also made from the same material. The variable condenser has a capacity of $100 + 100$

μf and is mounted on a ceramic base. A straight-line capacity type was the only one available at the time and its use resulted in the frequency changing very rapidly with dial reading at the H.F. end of the scale. A square-law type would have been better although the ideal is one with straight-line frequency characteristics. The dial is a 6 in. *Muirhead*, with 300 divisions covering 180° and provided with a vernier. The slow-motion is of excellent design without a trace of back-lash.

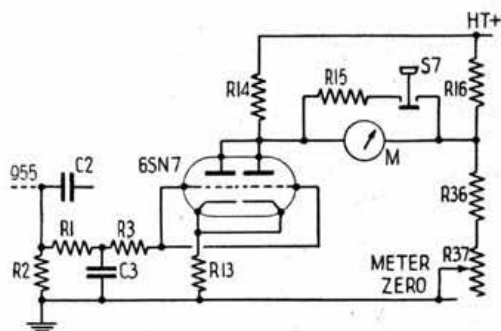


Fig. 3.
The valve voltmeter. For component values see Fig. 7.

The oscillator is a normal Hartley type with a high-resistance grid leak to enable it to act as an efficient detector. To improve its sensitivity, when listening to the check whistles above 80 Mc/s., a regeneration control is provided in the anode circuit. The anode is R.C.-coupled to the grid of the first amplifier stage. It was found necessary to reduce the value of the grid blocking condenser to $5 \mu\text{f}$ to prevent the valve "squegging" at low frequencies. "Squegging" is encouraged by the large feed-back of this type of oscillator and by the fact that a high value of grid leak is made necessary in these circumstances.

Coils

The coils are wound round the edges of blocks of Perspex which slide into Perspex guides. Between one half and two turns of coupling coil fit into slots cut in the centres of the blocks. The ends of the coils are soldered onto 16-gauge copper rivets which pass from face to face of the block. The opposite ends of the rivets are tipped with a small square of silver, as are their bronze opposite rivets riveted to the Perspex. A piece of silver $2\text{ in.} \times 1\text{ in.} \times .012\text{ in.}$, costing 1s. 6d., would have done the job five times over! Fig. 2 illustrates the coil construction details. The coupling coil is connected via a length of concentric cable to a *Pye* plug which serves as an input/output socket. It will be found at certain frequencies that this length of concentric cable when added to the length of cable external to the set will resonate and cause the circuit to go out of oscillation. An alteration in the length of external cable will shift this resonant point.

The highest frequency coil will not oscillate over the full condenser range on account of the very low L/C ratio, and this has to be allowed for when arranging for the coils to follow-on after each other.

The design of coil employed leads to high inter-turn capacity and results in the frequency coverage being low at low frequencies when a number of turns are bunched up together. Moreover, when the turns are cemented in position, the S.I.C. of the cement alters the inter-turn capacity and hence the calibration. This design of coil could certainly be bettered.

A switch has been included in the anode to permit the Acorn to be taken out of circuit without switching off the whole set, and also allows it to be operated as a diode for field-strength indication.

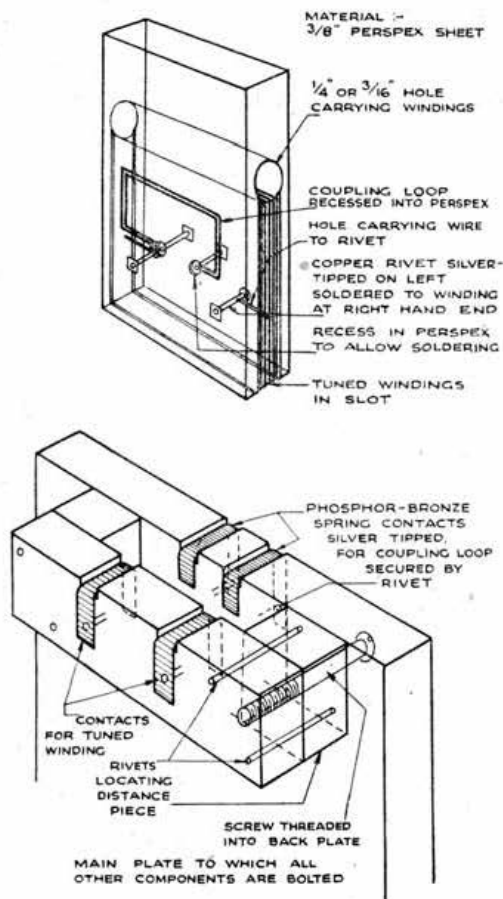


Fig. 2.
Details of coil construction.

The Valve Voltmeter

The grid of the Acorn oscillator is D.C. coupled to the grids of a 6SN7GT/G valve (this valve is equivalent to 2-6J5's in one envelope), the two halves of which are connected in parallel to obtain the greatest slope. The valve forms one arm of a Wheatstone's bridge circuit. A 0-2 millimeter is used as an indicator. To prevent overloading if the Acorn goes out of oscillation, or if the H.T. to its anode is switched off, the meter is normally shunted to give a full scale deflection of 6 mA. To obtain greater sensitivity, the meter is nearly "zeroed" and a button pressed to remove the shunt. Any reader who constructs a duplicate of this instrument is recommended to use either a more sensitive meter or a valve of greater slope, such as an 1851 or 1852. In either case the meter must be protected by a suitable shunt. The circuit of the valve voltmeter is shown in Fig. 3.

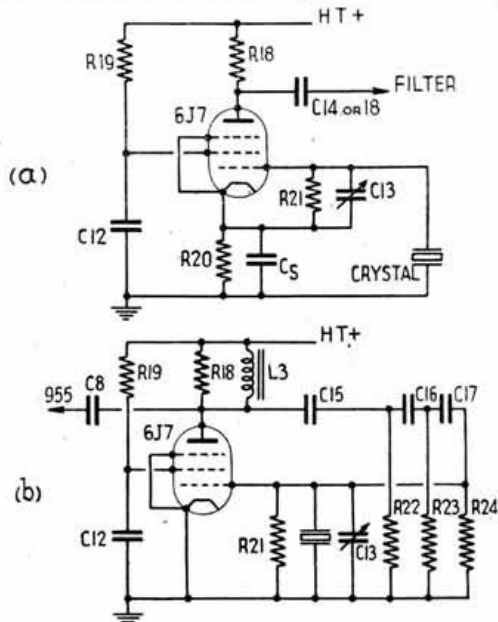


Fig. 4.
The 6J7 valve: (a) acting as a crystal oscillator, and (b) acting as an audio amplifier modulating the Acorn. For component values see Fig. 7.

The Crystal Oscillator and Audio Modulator Stage

A 2000 kc/s. QCC AT-cut crystal is used in this circuit which is shown in Fig. 4a. The crystal is ground about .01 per cent. too high in frequency to admit of it being adjusted to the exact frequency by means of a small trimming condenser. A modified Colpitts circuit is used between the grid and screen with the anode electron-coupled. The feed-back from the cathode to the grid depends upon the ratio of the capacities C13 and Cs. (the stray capacity formed by the wiring and the cathode/heater proximity), an arrangement which was found satisfactory in practice. For modulating the Acorn, with the switch in position 2, the crystal oscillator is converted into a phase-shift oscillator (Fig. 4b), sometimes called a Dippie oscillator. This oscillator depends for its action upon the phase-shift between anode and grid being 180° at only one frequency, i.e. the frequency at which the valve will oscillate—in this case about 1000 c/s. When operating as a modulator, the cathode is earthed and an L.F. choke shunted across the normal anode load. Since the output of the modulator is also fed to the audio

amplifier, the 'phones are shorted-out in position 2 to prevent the blast of sound when switching through that position.

Filter Circuits

As explained in the circuit summary, when the switch is in position 3, a 10 Mc/s. filter is inserted between the crystal oscillator and the harmonic amplifier to reinforce the 10 Mc/s. harmonics for identification purposes. In spite of a double-tuned transformer, the 2 Mc/s. points can still be heard at considerable strength. However, the 10 Mc/s. points are greatly increased in strength and provide satisfactory identification. The filter circuits are shown in Figs. 5a and b.

The 10 Mc/s. filter consists of two windings each of 18 turns on a $\frac{1}{2}$ in. diam. former; the centres of the windings are $\frac{1}{2}$ in. apart. The coils are tuned with 60 µf compression-type mica condensers and the complete assembly is fitted into an old Eddystone B.F.O. unit. A 9-72 Mc/s. I.F. Transformer similar to that made by Wright and Weaire would do the job equally well. The 2 Mc/s. filter coil was made by pruning an old B.C. coil until it resonated with a 30 µf compression-type mica condenser. The stray capacities of the whole unit make calculations rather approximate.

The Transiton Frequency Divider

A transiton may be described as a one-valve multivibrator, in as much that it can produce a square-wave which may be locked from an external signal. For a valve to act as a transiton, the suppressor grid must have a large measure of control over the anode current. Normally the total space current is divided between the anode and the screen; if now the suppressor receives a negative-going impulse, a portion of the anode current will be cut off and taken by the screen instead. The screen will accordingly go negative. In the circuit used (Fig. 6) the screen is coupled to the suppressor by condenser C27, so the suppressor will be driven more negative. This process will continue until the anode is completely cut-off by the negative suppressor and the screen is taking all the space current. The charge on condenser C27 now discharges through resistance R30 until the anode commences to draw current again. This takes some of the current from the screen which goes positive. The suppressor also goes positive and the process continues until the bulk of the space current is taken by the anode. The condenser discharges again until the screen starts to take current and the cycle is repeated. Only certain types of pentode valves will act as transiton oscillators. The Mullard EF50 is excellent for this purpose

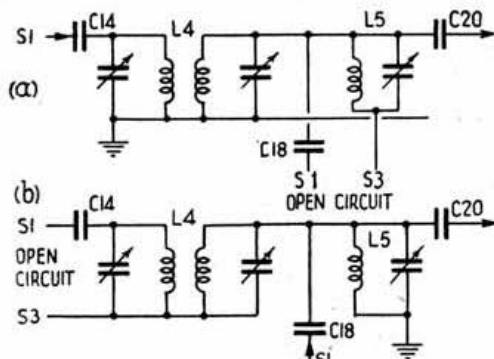


Fig. 5.
The filter unit: (a) as a 10 Mc/s. filter, and (b) as a 2 Mc/s. filter. C14 and C18 each lead from the anode of the crystal oscillator via S1. C20 leads to the control grid of the harmonic amplifier. For component values see Fig. 7.

yet certain specimens of the type, owing to the alignment of the grids, will not function in this way although they are entirely satisfactory for normal uses.

A multivibrator type of oscillator has an upper-frequency limit of about 100 kc/s. and, since in this case a frequency of 500 kc/s. was required, tests were made to determine the upper frequency limit of a transitor using only C and R in the circuits. This was found to be in excess of 1 Mc/s. If, of course, a tuned circuit is placed between the suppressor grid and earth, the valve will oscillate up to about 100 Mc/s., but this will produce a sine wave lacking in harmonics. Moreover, the frequency is not susceptible to being locked to an external signal as is a circuit incorporating a CR discharge network.

Air dielectric trimmers were used for the adjustable condensers in the discharge network and pointers soldered to the trimmers so that the settings might be repeated. An oscilloscope was used for the testing and adjustment of this instrument, but this is not considered essential. The settings of the two pre-set condensers have been upset and re-set without any difficulty. If a transitor is not locked, then any whistle heard in the 'phones that is due to it, will vary in frequency gradually as a finger is brought near the condenser. If the transitor is locked, the whistle will remain steady until the condenser is actually touched, when it will cease. Once a locked position has been found, the condenser should be set midway between the two positions where it goes out of lock. The 100 kc/s. transitor will remain in lock over most of the condenser range. The 500 kc/s. transitor is much more sensitive. Once a locked position has been found, the counting-down ratio must be tested. With the 500 kc/s. transitor

working, three whistles will be heard between adjacent 2 Mc/s. whistles and with the 100 kc/s. transitor working, four whistles will be heard between 500 kc/s. points. The 500 kc/s. transitor must, of course, be set up first, since the 100 kc/s. transitor is locked from it. It is necessary to use a trimming tool for adjusting the condensers, since both sides of the condenser are "hot." The stator plates should be connected to the suppressor grid. The condensers are fitted to the sides of the chassis under their associated valves; lin. holes are cut in the chassis and the outer case to permit their adjustment.

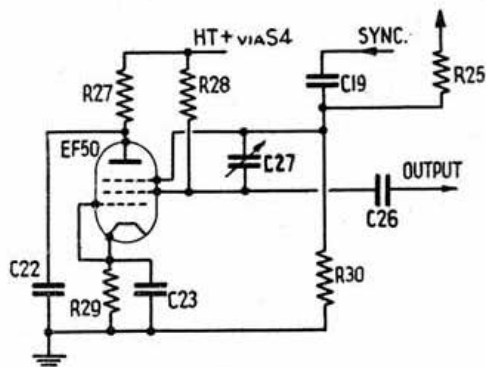


Fig. 6.

The 500 kc/s. transitor oscillator. The H.T. is fed via S4 and is switched on in positions 5 and 6 only. C19 leads from the anode of the crystal oscillator via S1, C26 leads to the suppressor grid of the 100 kc/s. transitor for locking, and R25 is the grid leak of the harmonic amplifier. For component values see Fig. 7.

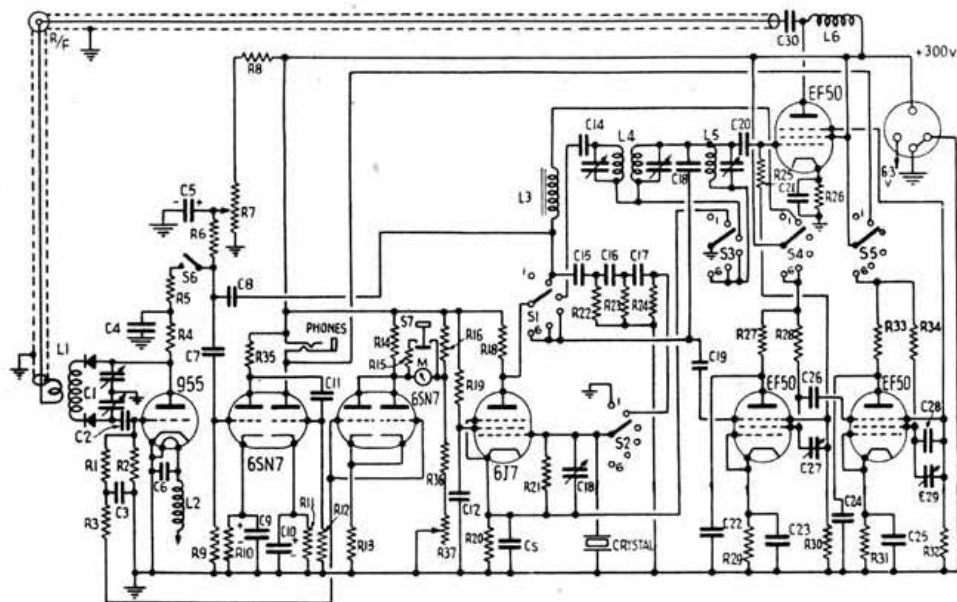
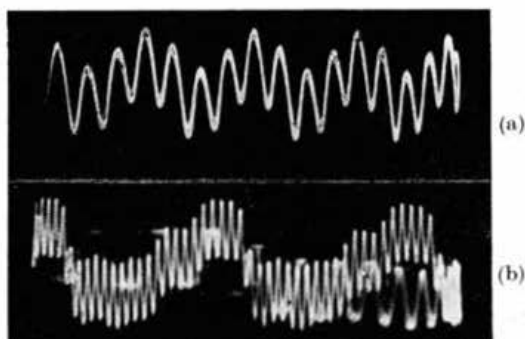


Fig. 7.

The complete circuit of the frequency meter.

C1	100 + 100 μ F variable.	C22, 23, 24	.01 μ F.	R10, 11	1,000 ohms.	S1—S5	6 position switch.
C2	5 μ F.	C27	4–15 μ F variable.	R13, 29, 31	500 ohms.	S6	SPST switch.
C3, 4, 8, 21	.002 μ F.	C29	5–60 μ F variable.	R14, 16	10,000 ohms 2 watt.	S7	Push-Button.
C5	8 μ F.	Cs	See text.	R15	48 ohms ($\frac{1}{2}$ meter resistance).	L1	To suit range.
C6, 18, 20, 28	40 μ F.	R1, 2, 25	2 megohms.	R18	100,000 ohms.	L2	Filter choke.
C7, 11	.02 μ F.	R3, 21	500,000 ohms.	R19, 32	25,000 ohms.	L3	L.F. choke.
C9, 10	10 μ F.	R4, 20, 30	10,000 ohms.	R22, 23, 24	250,000 ohms.	L4	10 Mc/s. transformer.
C12, 25	1 μ F.	R5	2,000 ohms.	R26	200 ohms.	L5	2 Mc/s. tuned circuit.
C13	5–50 μ F variable.	R6, 27, 33, 35	70,000 ohms.	R28, 34	30,000 ohms.	L6	50 μ H.
C15, 16, 17	.0005 μ F.	R7	250,000 ohms variable.	R36	22,000 ohms.	M	0–2 mA.
C14, 26	10 μ F.	R8	3,000 ohms.	R37	20,000 ohms variable.	Crystal	2,000 kc/s. + .01 per cent.
C19, 30	1 μ F.	R9, 12	1 megohm.				



Oscillograms showing the waveform at the anode of the harmonic amplifier, (a) with the 500 kc/s. transitron in circuit, (b) with the 500 kc/s. and 100 kc/s. transitrons in circuit. The total counting-down ratio in the latter case is 20 : 1.

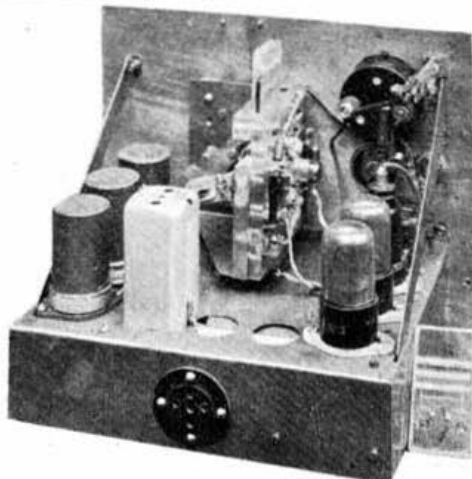
The Harmonic Amplifier

An EF50 valve is driven into Class C by 2 or 10 Mc/s. signals from the crystal oscillator *via* the appropriate filter unit. A high grid leak is used in order that the anode current may consist of as short pulses as possible, and contain the highest proportion of harmonics. Small values of inductance and capacity are used in the anode circuit to accentuate the high-frequency output as far as possible. Mixing of the transitron voltages is effected by returning the grid leak of the harmonic amplifier to the suppressor grid of the 500 kc/s. transitron, and the suppressor grid to the suppressor grid of the 100 kc/s. transitron.

Oscillograms are shown of the waveforms at the anode of the harmonic amplifier with one or both frequency dividers in operation. These in any way represent the true state of affairs at the anode since the characteristics of the oscilloscope amplifier (linear to 2 Mc/s.) reduce the pulsed waveform to something approaching a sine wave.

The Audio Amplifier

This employs a 6SN7GT/G valve as a two-stage RC-coupled amplifier, provision being made to short out the 'phones in switch Position 2 when the modulator is in operation.



REAR VIEW SHOWING THE GENERAL LAYOUT.

The valves to the left, reading from the rear are EF50 (500 kc/s.), EF50 (100 kc/s.), EF50 (harmonic amplifier). Those on the right, reading from the rear, are 6J7, 6SN7 (valve voltmeter), 6SN7 (audio amplifier). L4 is to the front of photograph.

General Construction

The entire instrument (excepting the power supply) measures only 10 in. \times 9 in. \times 6 in. deep.

The chassis is constructed of 20 gauge brass folded, with the corners soldered. The panel, which is 16 gauge hard brass, was made $\frac{1}{8}$ in. too large all round in order to allow it to fit into the case. The case was made of $\frac{1}{8}$ in. \times 18 gauge extruded angle brass with the side panels woven from 3/16 in. \times 26 gauge brass strip. This latter expedient was a counsel of necessity since perforated brass could not be obtained. It proved easy to make, strong, and of a most attractive appearance.

Operation of the Equipment

A power supply giving 250 volts at 50 mA, and 6.3 volts at 2 amps. is required. It must be well smoothed but no great stability is necessary because, if high accuracy of frequency is needed, recourse is made to the crystal oscillator.

All the haphazard cut-and-try-again methods which normally characterise tuned circuit work can be completely eliminated by the use of the valve voltmeter. A single or two-turn loop is placed over the unknown tuned circuit and the dial of the wave-meter turned until the meter flicks up. The dial is tuned to a maximum and the precise resonant frequency of the tuned circuit read off. The ganging of superhets can be reduced to figures from trial and error, and the capacity of condensers can be measured or compared by connecting them across an inductance or *vice-versa*. The resonant frequency of an aerial can similarly be checked.

For precision frequency measurement, the crystal oscillator may be set spot-on frequency by observing the beats of the second harmonic of the 100 kc/s. transitron against Droitwich on the magic eye of a broadcast receiver. It is difficult to hear the 2 Mc/s. points at frequencies much above 120 Mc/s., but the 10 Mc/s. points can be heard up to 250 Mc/s.

While this particular instrument was designed for VHF operation, the same principle might be applied to one covering the low frequency bands. In this case it would be advantageous to use a lower frequency crystal and lower frequency transitrons. Should the instrument prove too elaborate, a portion only may be constructed. For example, if accurate frequency measurement is required, the valve voltmeter may be omitted or alternatively the Acorn oscillator and valve voltmeter may be used on their own for resonance measurement. While in its full state the instrument is admittedly complicated, its unusual versatility makes it well worth while.

Service Valve Equivalents Booklet

Members are asked to note that due to a printer's error the equivalent of the ARP12 listed on Page 8 was shown as CV1330 instead of CV1331. We are indebted to Mr. H. Stern, BRS11162, for pointing out this error.

The booklet appears to have been well received judged by the numbers of appreciative letters received at Headquarters.

Copies are now available in stiff card covers, price 9d. each (1s. post free).

Side Slips

January Issue.—"Five Metre Propagation Characteristics" (Page 100 R. H. column) 35 ft. should read 35 minutes.

"R-C Audio Oscillator" (Page 108) R7 in caption to Fig. 2 should read 1000 ohms not 1 Megohm.

New County Representatives

Mr. F. W. Crabtree, G3BK, 28 Regent Avenue, March, Cambs., has been elected Cambridge County Representative and Mr. P. R. Solder, G5EA, 35 Torrington Gardens, London, N.11, North London District Representative. No other nominations were received.

A LOW VOLTAGE CATHODE RAY OSCILLOGRAPH

By F. J. FORBES

PART III.—THE AMPLIFIER UNIT

This article, the last of a series, deals with an Amplifier Unit for use with the Cathode Ray Tube Unit and Time-Base Generator, previously described.

THE amplifier employs two 6C6 valves, which are capable of being used either as separate one-valve amplifiers, or as a single two-stage amplifier. The change over is accomplished by means of a two-pole three-way switch, as shown in Fig. 4.

The chassis measures 6 in. \times 3½ in. \times 2 in., divided lengthwise into two sections underneath by a metal screen. The screen is cut out on one side so that the switch can be fixed through the side of the chassis. The switch is thus placed in the centre of the chassis, with one half in each section. The valve holders are assembled one in each compartment, thus providing easy wiring and maximum screening. The two rotary contacts of the switch are joined and the centre contacts on the stator left open.

The two output terminals are mounted on the same side as the switch shaft, each in its own section. Two old Cossor coil cans, square in section and 5 in. long by 2½ in. square, are mounted on the top to serve as valve screens. The output terminals and gain controls are fitted into these cans and when lids are placed over the tops and covers on the bottom a well-screened unit is provided.

Holes for bolts are drilled in the time-base panel through which the terminals and amplifier controls

protrude. Thus both chassis are bolted together to make the units appear as one. The two amplifiers should be mounted at the opposite end of the chassis to the power supply in order to minimise hum pick-up.

Circuit Details

There are no special points about the amplifier circuit, although it is of interest to mention that the two 500 μ H H.F. chokes were found to improve the frequency response at the higher end of the range. The stage gain of a single valve is approximately 10^2 , and of a pair in cascade approximately 10^4 . These figures are sensibly uniform over the range 20 to 10,000c/s.

Operation of the Complete Equipment

For normal operation the following terminals should be connected:— X_2 and Y_2 to E. (Fig. 1). Strap "Anode Modulation" (Fig. 1). "E" on Time-Base Unit to "E" on C.R. Tube Unit. X_1 (Fig. 1) to "Time-Base Sweep" (Fig. 3). "Sync." on Time-Base Unit to "Sync." on C.R. Tube Unit. "Grid Modulation" should be left unconnected.

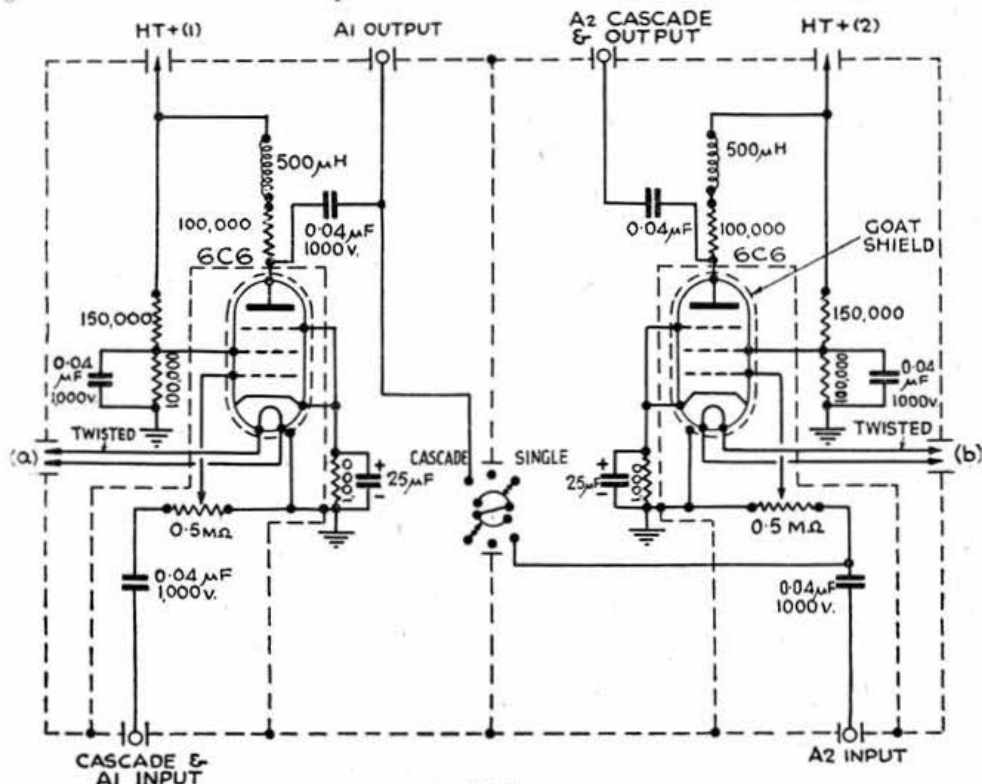


Fig. 4.
Circuit diagram of Oscilloscope Amplifiers.

Turn on "Brilliance," "Focus," and "Sync." controls to minimum. Turn off "Coarse Frequency." Switch on and allow a few minutes for warming-up, then turn up "Brilliance" control until the spot is seen. Centre this by adjusting the X and Y shift controls, then focus until a sharp definition is obtained. These operations should be completed as soon as possible. Do not turn the "Brilliance" control up too much, or leave the spot stationary for too long, otherwise the fluorescent screen may be burned.

As soon as these adjustments have been completed, switch on the "Coarse Frequency" control. A trace should then appear horizontally across the screen, the length of which can be adjusted by the "Amplitude" control.

The Y_1 plate may now be connected to one of the amplifier output terminals and a signal fed to the input, the amplitude of the signal being controlled by the appropriate gain control. For use at higher frequencies one amplifier can be inserted between the time-base and X_1 plate. In this condition the sweep amplitude is controlled by both the "Gain" and "Amplitude" knobs. As the amplifier may become overloaded if both controls are at maximum, this point should be watched.

Further applications of the units can be left to the user, although it should be mentioned that a great deal of useful information on the scope of C.R. Oscillographs can be found in the books listed in the bibliography.

The author does not consider that anything particularly original has been written here, but the equipment as described does provide useful test gear, and a basis for advancement in cathode ray tube technique.

Bibliography

1. Ardenne, M. von. *Cathode Ray Tubes*. Pitman.
2. Lerner, S. K. *The Cathode Ray Tube Handbook*. Pitman.

Moscow Conference

During October last telecommunications representatives of China, France, the U.S.S.R., the U.K., and the U.S.A. met in Moscow to examine frequency proposals and to determine how far they were in agreement on basic principles. No documents were signed and as far as we know no official statements have yet been published.

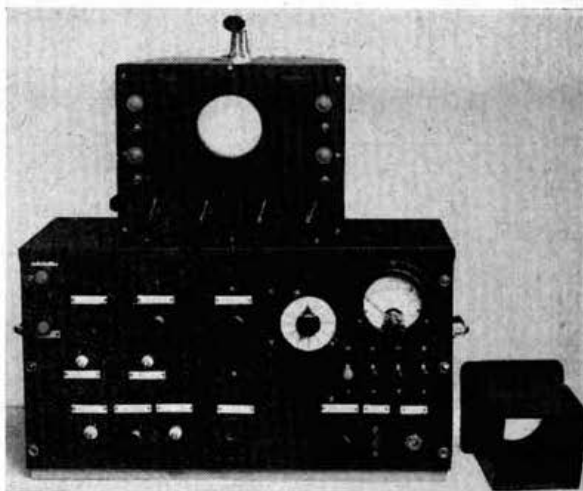
Shortly after the British delegation returned, the Society asked for a meeting with Col. Sir Stanley Angwin and other representatives of the G.P.O., to receive from them assurances that the British Government had supported the R.S.G.B. proposals handed to them some months earlier.

The meeting duly took place on December 17 last, and the necessary assurances were given, although Sir Stanley was compelled to point out that it is not possible at the present time for the G.P.O. to commit itself. The Society is aware that certain of the nations represented at Moscow favour the principle of smaller but exclusive, amateur bands at 3.5 and 7 Mc/s. but this viewpoint will be strongly challenged by the R.S.G.B.

Sir Stanley made it clear that unless the Great Nations are prepared to show some compromise at the forthcoming International Conference, deadlock will result. He also emphasised that the Moscow meeting was exploratory and that no final decisions or agreements were reached.

Another Presentation

The Council has been pleased to accept, with grateful thanks, the gift of a VR55 receiver and loudspeaker from *Radiovision Ltd.* of Leicester. The Directors of the Company are Messrs. W. A. Storer, G6JQ, and F. H. Tyler, G6GF.



View of Complete Equipment showing location of all controls.

3. Parr, G. *The Cathode Ray Tube*. Chapman and Hall.
4. Puckle, O. S. *Time Bases*. Chapman and Hall.
5. Rayner, J. H. *Cathode Ray Oscillographs*. Pitman.
6. Rider, J. F. *The Cathode Ray Tube at Work*. Rider.
7. Wilson, W. *The Cathode Ray Tube in Industry*. Chapman and Hall.
8. *Amateur Radio Handbook*. R.S.G.B.
9. *Radio Amateurs' Handbook*. A.R.R.L.
10. *Radio Handbook Supplement*. R.S.G.B.

Types of Emission

The Society was recently asked to make recommendations to the G.P.O. regarding the types of emission which should be permitted in the various bands allotted to U.K. amateurs.

The recommendations, which are set out below, have been accepted by the G.P.O. and will be incorporated into new licences:

Frequency Band Mc/s.	Types of Emission Permitted.
1.75	C.W. A.M.
3.5	" "
7	" "
14	" "
28	C.W. M.C.W. "A.M. F.M.
58.5	" " " " " "
2300-2450	Any type of emission, including television but excluding pulse

The 50-54 Mc/s. Band

The Society has made every effort to obtain permission from the G.P.O. for a limited number of members to conduct short-duration tests on frequencies in the 50-54 Mc/s. band, with a view to establishing two-way Trans-Atlantic contacts, but because these frequencies were assigned to Television at the Cairo Conference, the G.P.O. cannot accede to the request.

Headquarters' Station

The special call-sign GBIRS has been issued to Headquarters.

A HETERODYNE TYPE EXCITER

By F. THOMPSON (G3SD).*

DISSATISFACTION with even the best in E.C.O.'s, led the writer to construct a version of the well-known, but little used, heterodyne exciter. Originality is not claimed because a similar layout appeared in an American publication some years ago. The circuit arrangement is as shown in the diagram.

The principal advantages are:

- (1). No reaction between exciter and output stages, as both exciter oscillators and output are on different frequencies.
- (2). Greater ease of calibration. The L.F. oscillator is easily calibrated and retains calibration.
- (3). Construction not so critical as in an E.C.O. of comparable stability.
- (4). Considerably less drift than with the average E.C.O.

At G3SD the crystal operates on 6.5 Mc/s. and the variable oscillator tunes from 500 to 1000 kc/s. Both oscillators are operated with 150 volts on the anodes derived from VR. 150 type regulators. This arrangement not only eliminates frequency shift due to voltage variations, but also minimises drift due to heating. The combined drift of the two oscillators during the first hour of operation was found to be less than 50 c/s. Open chassis construction has been adopted and the small drift is no doubt due in great measure to the rapid dissipation of

heat. The power unit is built on a separate chassis.

Care was taken to render the L.F. oscillator inductance impervious to atmospheric changes by using a ceramic former and dipping the finished coil in paraffin wax. The output tank is of semi-self-supporting construction and of high Q. All small fixed condensers carrying R.F. are of the silvered ceramic type.

Provision is made for keying either the crystal or the L.F. oscillator. Keying is clean and chirp-free in either position.

The output tank is split and drive is applied to the following stage *via* a variable three-turn link and twisted pair.

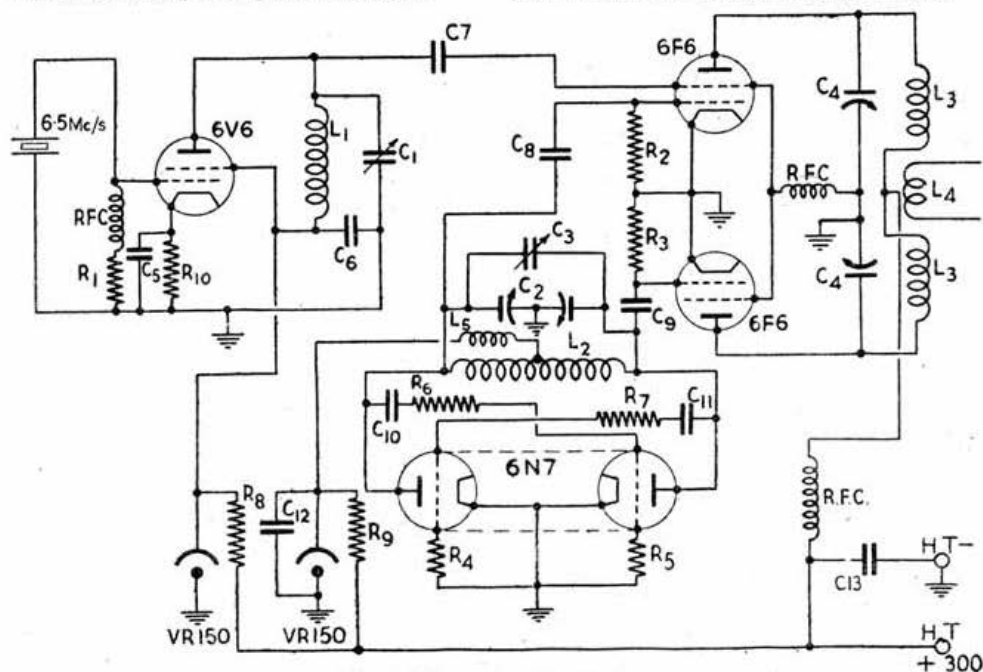
To obtain reset-accuracy the tuning condenser across the crystal plate tank must always be adjusted to the same position and to ensure this being done a locking device has been fitted. The best position found to produce a clean note, stability and crisp keying was very near the top of the "slow dip" on the plate milliammeter.

The 7 Mc/s. band is spread over 80° of the L.F. oscillator dial, the 14 Mc/s. band over 35°, the 28 Mc/s. band over 40° and the 58 Mc/s. band over 33°. The dial is an old Igranite Indigraph.

The unit had not been tested on the air when these notes were written, but bench trials promised a degree of stability not easily achieved in any conventional form of V.F.O.

No constructional difficulties were encountered and the exciter functioned without trouble.

* 14 Sandringham Av., Benton, Newcastle-on-Tyne.



Circuit of Heterodyne Type Exciter

R1 50,000 ohms 1 watt.
R2, 3 40,000 ohms 1 watt.
R4, 5 50,000 ohms 1 watt.
R6, 7 10,000 ohms 1 watt.
R8, 9 5,000 ohms 10 watt.
R10 500 ohms 10 watt.
C1 100 μ F variable.
C2 2-gang 370 μ F broadcast.

C3 50 μ F air trimmer.
C4 Split stator 50 μ F per section.
C5, 6, 13 .01 μ F Mica.
C7 200 μ F Ceramic.
C8, 9 10 μ F Ceramic.
C10, 11 200 μ F Mica.
C12 8 μ F electrolytic.
C13 .5 μ F.

R.F.C. 2.5 mh choke.
L1 25 turns on $\frac{3}{8}$ inch former. Single spaced. 28 swg, enamelled.
L2 170 turns on $\frac{1}{2}$ inch ceramic former. Centre-tapped and waxed. 32 swg, silk covered.

L3 22 turns 2 $\frac{1}{2}$ inches dia. Split 11 turns per side. 16swg, enamelled. Semi-self-supporting. Spaced dia. of wire.
L4 3 turns similar to L3.
L5 M.W. broadcast type choke.

DX PEARLS—No. 2

THE ROCK OF OKINAWA

By GLEN A. DUKE (W6NFI)*

THE end of the war found me enjoying the balmy climate of Okinawa, not to mention, of course, an occasional typhoon that removed quonsets and tents alike and left one exposed to hundred mile an hour winds and driving rain. But all in all, life went along with reasonable comfort, and ever-increasing monotony. It was late in December, 1945, that an incident occurred to break this monotony and to give me something to interest me in life again.

Many letters, and all magazines and papers were from two to three months old when they reached me, and although I had heard rumours of amateur activity in the Pacific, I could obtain no definite information. I knew that there was some possibility of amateur radio opening up, but from my knowledge of red tape, I did not expect anything to happen for some time. Imagine my surprise, then, when one morning, I saw several chaps struggling with a couple of poles and attached wires that looked something like a lazy "H." And this was going on within a stone's throw of my quarters! Needless to say I investigated and found Bob of W6OZB and his second operator Pat, in the process of putting up the array and beaming it toward the States. I was soon up to my neck in guys, gear, etc., and it wasn't long until 'OZB was back on the air.

Original Gear

I had been half-heartedly collecting gear before, but now I started in earnest and in a few weeks W6NFI went on the air with an 807 in the final, driven by a 6L6 doubler and with a 6L6 as a triode oscillator. The rig was modulated with a public address system. The original aerial was a simple doublet or dipole, fed with co-axial cable and with no attempt made to match the feeder to the dipole. The original shack was a corner of a pyramidal tent shared with another party. Incidentally, the power transformer and choke were of Australian manufacture and were donated by a signal outfit that had seen service there. From the beginning I was fortunate with the receiver situation. First, some friends in the Marine Corps loaned me an instrument, covering the ten metre band, which had come originally from a direction finding site. Later on, I fell heir to an S-36 and a Super Pro, which were used as a double receiver, that is the input to the second IFF of the S-36 was fed into the aerial input of the Super Pro. This makes a good combination as those who have used it know.

First Contacts

After several days of checking with the locals on Okinawa I worked my first DX on January 23—W5DBT, Tinian. This was a good start, but subsequent days saw U.S. signals coming in and W6NFI was not working them. I became desperate, and started scrounging for the necessary parts for a beam. With the aid of Al of W1MKP, I started to work on a four-element close-spaced beam. Some of our friends came through with a rotating base, equipped with a selsyn, and we were fortunate enough to run down some inch-and-a-quarter aluminium tubing. The final result was a co-ax-fed beam, still unmatched, mounted on a rock behind our quarters and remotely controlled from the new shack, part way up the rock. We finished the beam on the evening of the 5th of



The aerial system at W6NFI—Okinawa.

February, 1946, and the following morning the DX rolled in. At 0810 we contacted W6NNR in Los Angeles and at 0900 we had a long contact with VE5AEZ in Ioco, Canada.

Two days before—on February 3—we had a hamfest on Okinawa and the brethren came from all parts of the rock to chew the rag in person. A lot of new sources of salvage gear came to light and soon there were a number of new rigs and new calls on the air.

Improvements

Few amateurs are satisfied with existing gear, and we were no exception, and soon Al was engaged in building up a final with a 100 TH. At this early stage, our supply of spare parts was not what it was to be later on and we had trouble getting a transformer with sufficient voltage output. So we resorted to bridge rectification. Then arose the problem of a filament transformer. We finally solved it by putting a Variac in the primary of a receiver transformer which had a husky 6.3 volt winding. With this we were able to get the required 5-volt output. With the higher power, the PA system was no longer big enough to plate modulate the final. So we decided to try cathode modulation. We had on hand a modulation transformer designed for push-pull parallel 6L6s, the primary impedance being around 1800 ohms. We connected the 500 ohm output of the PA system to one half of the primary—somewhat of a mismatch—but workable. It was not until we checked our modulation with an oscilloscope that we got good quality reports. We found that unless the grid drive and bias were adjusted properly, the percentage of modulation was low and the wave was flat on both the peaks and the valleys.

This, more or less completes the story of the mechanical and electrical installations on the Rock. We did go on the air in late April or early May with a BC610, but we did not derive anything like the satisfaction, or the thrills out of it that we got out of the breadboard, haywire 807 and 100 TH.

DX Conditions

Some words about DX. On February 8 we made our first South American contact with CE2CE and on February 11 raised our first South African, Ralph of ZS6FN. Then, on the 13th, at 2015, that choice bit of DX came pounding in with an S9 signal, none other than G6CU on Cocos. On February 14 we contacted our first Australian, VK4JP. Then on the evening of February 18 I worked some old DX in a new way. I was hooked up with W5KDA a couple miles away and as the band was poor we decided to call it a day. However, as we all know, a ham generally takes that last look across the band

* 3420 Blair Drive, Los Angeles, 28, Calif., U.S.A.

and burns some more midnight oil. As I tuned the band, with the beam pointed in the direction of South Africa, I heard what sounded like American signals. It couldn't be—but then maybe—so I called CQ. W8QXV of Akron, Ohio came back to me the long way around! He took two messages, and then in a few minutes I made another Ohio contact, one in Arkansas and one in South Carolina. This long skip happened several times again, but never so good as on this particular evening.



The author and his station on Okinawa—Pacific Ocean.

First G Contacts . . .

On the evening of March 3, I was loafing in my quarters and Ken, ex W8AOY was at the mike. He made the first European contact, and made W6NFL portable Okinawa WAC. At this time he hooked up with G8IG, and before he stopped, or rather, before the band went out on him, he logged eight more G's. It was a big evening and when I heard Ken "going to town" up there on the Rock, I established an all-time record for an up-hill run.

The QSL Bureau—A Warning

Many members are deeply concerned by the recent announcement, by a commercial interest, that the offices of a certain radio magazine are the QSL Bureau for Great Britain. It should be obvious to any thoughtful person that there is room for only one QSL Bureau in each country if confusion is to be avoided. We therefore hereby draw attention to the existence of the International Amateur Radio Union of which the R.S.G.B. and all the National Societies throughout the world are members. It is part of the covenant of I.A.R.U. that Member Societies agree to send QSL cards only to the official QSL Bureau of Member Societies in other countries and that there shall be only one Member Society in each country.

We feel it is our duty to warn members that they only risk losing their cards by wasting their money on commercial QSL Bureaux because the vast majority of their cards will come to the R.S.G.B.

We also take this opportunity of reminding British Radio amateurs that the R.S.G.B. operates a two-way service which is free to members and that non-members may collect their cards by maintaining a supply of stamped envelopes at the Bureau. The Society is not prepared to facilitate an interchange of cards with "Mushroom" commercial Bureaux.

A similar attempt to "cash-in" on Amateur Radio has recently been made in America by a commercial concern. We feel that this timely word may dissuade other would-be "philanthropists."

A. O. M.

Liaison Flight to South Africa

Several members of the Society stationed at the Empire Radio School, Debden, were associated with the recent mission flight to South Africa of the Halifax VI (Mercury) Aircraft. Among those serving

. . . and the last

In May the DX began to drop off, but there was some consolation as the day of my return to the States was drawing near. The last G station logged was G6DH, on May 1. Our 73 to Eileen were our last from Okinawa to England, although, at the time we didn't suspect it. On the 24th we had our last of many pleasant QSO's with Jack of ZS2CI. The last entry in the log is W6QPL, portable Tokyo, on May 29. And a few days later I saw Okinawa go down on the horizon.

Such is the story of another DX hound and his friends. We probably shall never again get the DX and the thrills that we did while operating portable Okinawa, or be able, with ham radio, to perform the services that we did there in clearing traffic and arranging personal QSO's for people on the "Rock." We walked the floor with expectant fathers, we handled death notices and we arranged gossip sessions between the girls on the Rock and other rocks in the Pacific. And I must refer to two other operators who, in addition to those already mentioned, helped to carry the load and cleared their share of traffic and had their share of rag chew—namely Jay and Chuck.

So closes the chapter of W6NFL on the Rock of Okinawa. I have Amateur Radio to thank for a great experience and one that will always bring back pleasant memories of contacts with the fraternity around the world. Only those who have been in these outlying parts of the world can really appreciate what it means to talk to people back in civilisation. After years of war, it is very fitting that it was Amateur Radio that, in a few months, brought contacts and established friendships across the whole face of the globe; contacts and friendships that will be renewed again and again in the future.

at the school are F./Lt. G. W. Horton, G5GH, F./O. D. N. J. Cudlip, G2FNY, and F./O. J. C. W. Douglas, BR813214.

"Mercury" was originally fitted out as a Radio Flying Classroom for Aircraft Apprentices and Signals Officers under training, but before being used for this purpose it was diverted to the Empire Radio School for liaison flights. The aircraft is packed with Radar, W./T. and V.H.F. Equipments which are all in current service use with the exception of two new V.H.F. sets.

The Mission consists of the Commandant of the Empire Radio School and a team of R.A.F. Signals Specialists. During the course of the tour 15,000 miles will be covered. The intention of the Mission is to discuss and explain new equipment coming into the Service and to collect material of interest in the development of Radio Training.

[Mr. W. H. Matthews, G2CD (East London D.R.) recently visited the school at the invitation of the Commandant.—Ed.]

OUR FRONT COVER

NOTHING much of real experimental worth in radio can be accomplished without accurate measurement. The Model 7 Universal AvoMeter is a 50-range B.S. first-grade combination measuring instrument giving direct readings of A.C. and D.C. Voltage, A.C. and D.C. current, Resistance and Capacity. Audio-frequency power output and Power Level readings are also provided for. It is but one of the comprehensive range of "AVO" high-grade electrical measuring instruments—a range which includes something to meet the needs of every amateur, service engineer and serious experimenter. Fuller particulars obtainable from The Automatic Coil Winder & Electrical Equipment Co., Ltd., Winder House, Douglas Street, S.W.1.

THE KREIGIES MEET AGAIN

PRISONERS OF WAR REUNION IN LONDON

MANY social functions have taken place during the long history of the Society, but never before has there been such a gathering as the one held at Slaters' Restaurant in the Strand on Saturday, 18th January last.

Arranged primarily to provide the President and Council with an opportunity of meeting those members who had been prisoners of war, the gathering rapidly developed into a unique re-union as the ex-P.O.W.'s began to recognise colleagues who had shared with them the privations of long years of waiting in German, Italian and Japanese prisoner-of-war camps.

It was unfortunate that only 17 of the 49 known ex-P.O.W. members could attend but those who were present will cherish happy memories of the occasion.

Prior to the dinner the guests of the evening had to face a barrage of questions from the National Press, whilst one of them (Mr. W. Spink, G5SP) in company with the Hon. Administrator of the R.S.G.B. P.O.W. Fund (Mr. C. H. L. Edwards, G8TL) and the Social Committee Secretary (Mr. Phil Thorogood, G4KD) "gate crashed" a B.B.C. microphone which had been conveniently installed in the Strand. No doubt many members who were listening casually to the "In Town To-night" programme that evening were roused to activity when they heard familiar ham jargon and call signs coming to them over their broadcast receiver!

The Dinner

With the President (Mr. Stanley Lewer, G6LJ) in the Chair, the company responded enthusiastically to the many impromptu toasts devised for them by the General Secretary, who acted as Toast Master.

Mr. Lewer, in proposing the health of the ex-P.O.W.'s, assured them that if it had been possible for the Society to have done more it would have been done, but they were limited in many directions. He believed, however, that the gifts of cigarettes, books and games which had been sent to the German and Italian camps had been greatly appreciated. He much regretted that it had not been possible for the Society to send parcels to those held by the Japanese.

Lt.-Col. Tom Whimster (G8UJ now G2ZD) who was Camp Commandant in one of the Japanese camps in Sarawak, responding to the toast asked that the thanks of all ex-P.O.W.'s be recorded to the many hundreds of individual members who had contributed to the Fund. During his captivity he knew that the Society was striving hard to send parcels to the Japanese camps—the fact that they did not succeed was no fault of the organisers. Col. Whimster had a special word of thanks for the ladies who had helped with the administration of the Fund, and for the Hon. Administrator and the General Secretary.

The Honorary Treasurer, Mr. Alec Watson (G2YD) in proposing the health of the 32 ex-P.O.W.'s who were absent, expressed the hope that they would keep in touch with the Society, and take a keen interest in its activities.

The toast to the Hon. Administrator of the Fund was ably proposed by Capt. Ernest Shackleton, G6SN (taken at St. Valery in 1940), who spoke with feeling of the joy and pleasure which he and his colleagues experienced when the R.S.G.B. parcels arrived. "Shack" confirmed that the regular delivery of parcels from the Society was one of the greatest

surprises of prison camp life. The parcels were in every sense a god-send for not only did they bring consolation, but frequently some of the contents were used for barter purposes. Those who had been in German and Italian camps much regretted that the Society could not send parcels to their comrades in the Far East. Mr. Shackleton assured Mr. Edwards that his thoroughness had produced results which surprised not only the recipients of the parcels but all who shared their contents.

Mr. Edwards, in a much appreciated speech, recalled incidents of special interest to individual members present. He disclosed that on many occasions the letters and cards which he and the Secretary received were passed on to the War Office where they were carefully scrutinised. He also disclosed that several P.O.W. members had received equipment which enabled them to receive news bulletins from home.

During the war 351,000 cigarettes, 80 lbs. of tobacco, over 2,000 games and a large number of books—a total of 1,299 parcels—were distributed through the Fund.

Mr. Edwards paid a warm tribute to Mr. Packe, G3OJ, who for some years paid all postage expenses incurred in administering the Fund. He also referred to a certain lady member who had guaranteed the fund when the Council agreed to allow licenced non-members to participate.

The Ladies

Mr. Peter Bradley, G8KZ, in proposing a toast to the ladies who assisted, spoke of the wonderful work done by Mrs. Elsie Edwards who, in spite of heavy family responsibilities, spent much time each week on essential clerical duties. Tribute was also paid to Miss May Gadsden who devoted many hours of her busy life as Assistant Secretary to the administration of the Fund.

Mrs. Edwards received a great ovation when she replied on behalf of the ladies. She assured the ex-P.O.W.'s that the services she had been able to render to them had given her great pleasure and satisfaction.

How the Fund Started

The General Secretary in proposing a toast to the Society recalled that the Fund was started privately by Miss Gadsden and himself to provide a few cigarettes for "Shack" and other old friends who had been captured in France at Dunkirk time. Before very long, however, the Fund had become so large that application had to be made to the Charity Commissioners for exemption under the 1940 War Charities Act. Money poured in from all over the country, and the amounts contributed ranged from the humble "tanner" to, in one case, a cheque for £100.

Mr. Claricoats spoke of the grand efforts made by Mr. Edwards who seemed to be able to produce items for inclusion in the parcels which were quite unobtainable from normal sources. The idea of sending kit bags and attache cases, was a joint 'TL-' CL brain-wave. They were happy to know that these gifts proved of considerable use to those who received them. The Secretary described how the Society "adopted" "Snowy" Campbell, VK3MR, as its "next of kin" and how he was provided with the necessities of life.

When it was found that no parcels could be sent to the Far East the Council agreed to transfer £350 from

the main Fund to a special Far East Fund, which was gradually built up by adding £20 to it each month from the European Fund. As a result of this far-sighted policy the Society was now in a position to make a presentation of lasting value to each member who had been in a Far East camp.

Mr. Clarricoats announced that during the four years the Fund operated, the sum of £1,642 11s. 7d. was collected. It was the intention of the Council to disburse every penny to the P.O.W.'s.

Before concluding his speech the Secretary expressed the earnest hope that the present reunion was but the forerunner of a series of annual events which would bring together all members who had been P.O.W.'s.

A Generous Gesture

The Secretary announced that through the generosity of Mr. H. V. Martin, G15HV, of Belfast, he had been able to provide cigarettes for all present. The announcement was greeted with acclamation.

Society Achievements during War-time

The Honorary Secretary, Mr. H. A. M. Clark (G6OT), in responding to the toast reminded those present that if it had not been for the "courage" of the 1939 Council in deciding to keep the Society in operation during the war, the present gathering would not have been possible. Mr. Clark referred to the difficulties which had been overcome during the early years of the war and recalled how the Society had been able to suggest names of members for special duties. He also spoke of the growth of the Society and paid a tribute to the General Secretary and Miss Gadsden who had, with the co-operation of many honorary workers, built up the Society from a pre-war membership of 3,000 to a post-war membership of nearly 14,000.

The Presentations

During the evening the President presented Model 7 Avometers to the Far East prisoners of war who were present. He later handed to every ex-P.O.W. a Swan fountain pen suitably inscribed. These gifts, which came as a complete surprise, were most warmly appreciated by all recipients.

Reminiscences

Following the taking of a group photograph, Messrs. Lister, Babcock and Spink were invited to describe some of the incidents that occurred whilst they were in captivity. For obvious reasons we cannot recount their stories, but we hand it to them and to their colleagues for great recourse and ingenuity. If the Germans had only known half what was happening they would have been surprised!

Roll Call

The following ex-P.O.W. members were present:—F. H. Babcock, G8LI, E. G. Bell, G2DNI, P. B. Briscoe, G8KU, A. Brown, G6ZX, T. P. Douglas, G3BA, M. Frost, BRS2692, R. Healey, G6HY, J. B. Kay, G3CO, G. Kennaby, BRS5248, A. W. Lister, G5LG, M. R. MacArthur, G4LB, M. L. Quartermaine, G3FZ, E. Shackleton, G6SN, W. Spink, G5SP, G. F. Wakefield, G5WG, S. H. Weeden, BRS3812, T. Whimster, G8UJ (G2ZD). The P.O.W.'s and their ladies were the guests of the Society.

The Absent P.O.W.'s

The following were unable to attend:—Messrs. Blair, Blomfield, Bolton, Campbell, Carr, Caughey, Coates, Cunningham, Druce, Drummond, Dykes, Flower, Garrett, Heath, Hindle, Jefferson, King,

Maddison, Marshall, Matthey, Newson, Richardson, Rodwell, Saddington, Smith, Truscott, Wake, Wales, Warner, Webb, Wilkes and Wood.

Tail Piece

Those who were not present are requested to communicate with the General Secretary without delay, so that arrangements can be made to send on the fountain pens and Avometers.

Presidential Address

Mr. S. K. Lewer, B.Sc., G6LJ, was installed in the Presidential Chair at a meeting of the Society held on Friday, January 17, 1947, at the Institution of Electrical Engineers, London.

Mr. E. L. Gardiner, G6GR (Immediate Past President) in opening the proceedings, referred to Mr. Lewer's long association with the amateur movement, an association which he stated dated back to 1924, when he took part in the pioneer Trans-Atlantic tests. Mr. Lewer had been a member of the Society for more than 20 years and a member of the Council since 1940. He had a wide knowledge of Amateur Radio matters, and was eminently suited to undertake the duties of President.

Following his translation to the Chair, Mr. Lewer delivered his Presidential Address which was based on the theme that there is little new under the sun. Mr. Lewer explained how old ideas and principles had, after a passage of time, been revived and applied to current radio problems. At the conclusion of the Address the General Secretary voiced the thanks of the members present to Mr. Lewer.

Later in the evening, Mr. Wood, of *E. M. J. Service Limited*, played back the recording of Sir Ernest Fisk's speech made on the occasion of the presentation to the Society of the new Headquarters' transmitter and associated equipment. The speech was listened to with great interest by the assembled company.

[Mr. Lewer's Address will appear in our next issue.—Ed.]

Committees of the Council

The following members have been appointed to serve on the Committees of the Council for the current year:

Codes of Practice.—Messrs. G. P. Anderson, G2QY, I. D. Auchterlonie, G6OM, K. Morton Evans, G5KJ, J. W. Mathews, G6LL, and W. E. Russell, G5WP.

Contests.—Messrs. C. H. L. Edwards, G8TL, C. J. Greenaway, G2LC, J. M. Kirk, G6ZO, W. H. Matthews, G2CD, A. O. Milne, G2MI, W. A. Scarr, G2WS, and J. M. S. Watson, G6CT.

Finance and Staff.—Messrs. H. A. M. Clark, G6OT, C. H. L. Edwards, G8TL, and A. J. H. Watson, G2YD.

G.P.O. Liaison.—Messrs. S. K. Lewer, G6LJ (deputy H. A. M. Clark), A. E. Watts, G6UN, and the General Secretary.

Membership.—Messrs. I. D. Auchterlonie, G6OM, V. M. Desmond, G5VM, C. H. L. Edwards, G8TL, and W. A. Scarr, G2WS.

Social.—Messrs. P. C. Bradley, G8KZ, S. A. Howard, G8TY, A. O. Milne, G2MI, P. A. Thorogood, G4KD, F. Shale, BRS9373, and Mrs. M. Mills, G3ACO.

Technical.—Messrs. G. Bloomfield, G2NR, F. Charman, G6CJ, H. A. M. Clark, G6OT, D. N. Corfield, G5CD, E. L. Gardiner, G6GR, R. H. Hammans, G2IG, J. W. Mathews, G6LL and A. O. Milne, G2MI.

The President is an ex-officio member of all Committees except the G.P.O. Liaison Committee, of which Committee he is a member.

All Committees have power to co-opt.

THE MONTH ON THE AIR

By A. O. MILNE (G2MI)*

QUITE a lot of correspondence has come in pursuant to our remarks last month about V.F.O.'s. Some agree with our views, others do not. We wish to make it plain that we have no objection to a properly designed V.F.O. properly used, i.e. a good steady T9 signal which can be moved to a free spot in the band. We stick to our opinion, however, that it is too much of a potential nuisance to be safe in the hands of many otherwise blameless amateurs. In the hands of the smart Alec, the V.F.O. is a positive menace.

Here is something we heard ourselves. A particularly rare station expressed a wish to work a particular part of the world, whilst in contact with a G. Another G who is well known throughout the world immediately swooped into the party with his V.F.O. and had a purely imaginary QSO with the country which was the subject of conversation, saying, "I've got — waiting for you when we've finished." Result? Well, G — works aforementioned piece of rare DX, apologising at the same time for not being able to produce his figment of imagination when requested. Very cute, but hardly Ham radio.

The G in question is normally an exceedingly nice chap but give him a V.F.O. to play with and he becomes intoxicated, forgets his manners and generally goes berserk. This isn't just an isolated case either. Now to business.

A.R.R.L. DX Contest

The first section of the 13th International DX Telegraphy contest begins at 00.01 G.M.T., on February 15 and ends at 23.59 G.M.T. on February 16. The second section begins at 00.01 G.M.T. on March 15 and ends at 23.59 G.M.T. on March 16. The telephony contests operate over the week-ends of February 22-23 and March 22-23—same times as for the C.W. contest.

Members are reminded that the Braaten Trophy (presented to the Society by Mr. Arthur Braaten, W2BSR), is awarded annually to the British Isles member scoring the highest number of points in the A.R.R.L. telegraphy contest. Our Past President, Mr. A. D. Gay (G6NF) held the trophy for the years 1937-1939.

Notes and News

Yes, ZC1AN is quite genuine but very much undercover, send your cards via R.S.G.B. K6CGK says all K stations will have the extra letter in the prefix by the end of this year. All K's will become either KH or KI by then. 6CGK pleads for a little more attention to weak signals around 6-7 p.m. G.M.T. He has heard GW4CX, EI8G, G16WB, G2MI, G5HH, G5SK, EI9J and G2AUF, but has only worked G16TK and G6LB. G2VK says HA8Z is on 14 every morning from 07.10 G.M.T. for G contacts and QSL's 100 per cent. G2YS reports two useful ones—U18AA in Tashkent on 14,050, ZB1AD ex-G8AB and FF8WN who puts a strong signal in around 22.30 G.M.T. on 14,060. G2HY reports hearing PIPZ on 14 C.W. in the early evening. This call-sign belongs to the whale-oil refinery ship "Willem Barendsz" now in Antarctic waters. G2HOJ is operating as VQ6HOJ. Address is 14737362 Cpl. J. R. Endall, R.E.M.E., 407 (E.A.) R.T. Workshops, E.A.E.M.F., British Somaliland

(Via Aden). He is using a 6V6 ECO to an 807 on 14 with a dipole.

G6LB has done some good work with 100 watts to a TZ40. KL7BN, KH6ES, VE7MO, VE7ZM are some of his bag, also a very nice 589 from VK2NQ. Eric Trebilcock gives VS4BJ as 579067 Cpl. Bailey, R.A.F. Sigs. Det., Labuan. W6ONP/KW6 on 28 is c/o Pan-American Airways, Wake Island. T1NS cards are coming through, address c/o Signals Officer, R.A.F., Castel Benito, M.E.F./1. VK8 and VK9 no longer exist. The former is now VK5 and the latter VK4, don't ask why! HR1BD is Bill Rogers, United Fruit Co., Cortes, Honduras. Eric mentions one we would like to work, FUSAA on Pentecost Isle, New Hebrides. HZ1AB is J. P. Anderson, A.P.O. 788 or A.P.O. 816 (we've had both), New York. He is W4JMQ—better send cards via A.R.R.L. He works from Dharan, Saudi Arabia. VK4OS is C. Rowles, Dept. of Civil Aviation, Jackson Airfield, Port Moresby, Papua.

D2VB ex G2VB asks the 60 gang to swing their beams to the eastward as a D2 station is on the band almost continuously. VS1BX, judging by the cards he gets, works everything. C7OK is 381 Roosevelt Road, Tientsin, and ZD2G is Posts and Telegraph Dept., Lagos, Nigeria. RAEM mentions in a recent letter that all Russian stations with a K in the prefix are club stations.

G6CJ has worked several ZL's and VK's on 7. He has heard VK6FL as early as 16.30 G.M.T. Can't something be done about the teleprinter transmitter on 7,020? He asks. And about its harmonic on 14,040 say we!

Eric Bumfrey, an associate member in India passes along the following QRA's. VU2BF, c/o G.H.Q. Signals, New Delhi: VU2BZ, c/o H.Q.'s No. 3 Indian Group, Barrackpore, R.A.F., India Command. G2YS supplies the QRA of OX1Z—A.P.O. 858, New York. NY4CM is at the U.S. Navy Base, Guantanamo Bay, Cuba. It counts as a separate country. According to G6PJ, HZ4EA is at Ineka, Saudi Arabia, 14,010. QSL via A.R.R.L. A disappointment awaits those who have worked ET2C. G3AUP heard this station admit that he is a pirate in Switzerland. G8VB's son is VS4SR. He operates the same station as VS4BJ and is looking for G's. VS7EV is G2VA. HB9CE gives TR1P as E. L. Keener, 101, Lincoln Street, Grafton, West Virginia, and FF8WN on 14,050 as W. T. Moore, Pan-American Airways, Dakar, Senegal. XACO is in Libya and XACY in Trieste. TF3C is an American. 9CE tells us that LZ1XX ID is still active in Sofia. All QSL's guaranteed—one day. LZ1AK, LZ1AB, etc., are all phoneyes. UA0KAA is on Dickson Is., Jenissei Bay, Siberia, not in Spitzbergen. XADZ is still in Italy but has been granted G3AXU. He handles cards for XA stations. QRA, Capt. P. G. Keller, British Army, A.5, G.H.Q., C.M.F., Italy. SUIKE is on his way home and will give us the story of his recent travels. One of his star turns was to work all continents on 28 from a moving train between Baghdad and Basra. EP2L is genuine and QSL's.

Without Comment

G8NO has a few things to say about over-anxious DX hunters. He has had several cards marked "Please QSL for DXCC" claiming contacts when he was not even on the air. He asks us to say that he QSL's all genuine QSO's 100 per cent.

* 29, Kechill Gardens, Bromley, Kent.

NATIONAL FIELD DAY, 1947

INTRODUCING THE EVENT TO NEW MEMBERS

NATIONAL Field Day was inaugurated by the Society in 1933 with a shade of doubt as to its popularity amongst the membership. However, the event quickly leaped into favour with the result that by 1939 it had come to rival the B.E.R.U. Contest in popular appeal.

The primary object of N.F.D. is to prepare ourselves and our stations for any conditions of emergency which might arise—the offering of a trophy being regarded only as an incentive for competition. Experience gained during pre-war events proved invaluable to many of those who were engaged in the recent hostilities. In the U.S.A., New Zealand and other countries which have been hit by floods or earthquakes, the radio amateur has always been quick to take advantage of such experience, and outstanding rescue work has been carried out.

In pre-war years N.F.D. took the form of a competition between the British Isles Districts, but in view of the increased membership, the event this year will be based on towns or areas represented by T.R.'s and A.R.'s.

N.F.D. will provide an opportunity for the members in towns and areas to pool their resources and work together for a common cause. The RRS member will meet many of his "locals," and his help will be invaluable at the site. Details will, of course, be worked out at local meetings by the members who propose to compete, but it should be borne in mind that apparatus must be truly portable, and that volunteers will be needed for the loan of gear, tents, cooking apparatus, transport, etc. Operators and helping hands will also be required.

Empire and Foreign Portable Stations

It will be seen from the rules that scoring favours contacts with British Empire and foreign portable stations. In past years support has been forthcoming from these stations and it is hoped, that once again many overseas portables will co-operate. An award will be offered to the British Empire or foreign station giving the most points to British entrants.

Rules

1. The event will commence at 17.00 B.S.T., SATURDAY, JUNE 7, and conclude at 17.00 B.S.T., SUNDAY, JUNE 8, 1947.

2. The event will be confined to properly constituted Town or Area Groups within the British Isles, which, for the purpose of the event, constitute the prefix zones G, GM, GW, GI and GC.

3. Each Town or Area Group taking part will be permitted to place two stations ("A" and "B") into operation. Station "A" will operate on the 1.75 Mc/s. and 3.5 Mc/s. bands and Station "B" will operate on the 7 Mc/s. and 14 Mc/s. bands. Both stations may operate from the same site or from different sites, provided they are located within the agreed limits of the area covered by their County Representative. It will be permissible for two or more towns or areas within a single county to amalgamate for the purpose of this event.

4. All transmissions must be signed off with the band in use; the numerals 1, 3, 7 and 14 signifying the four bands (e.g. "... AR 7 K")

5. No station may be operated on more than one band at any one time.

6. Each station must be licensed to use a different call sign. The T.R. is responsible for forwarding to Headquarters applications for such permission together with the exact location of each station NOT LATER THAN APRIL 15, 1947. A list of portable stations and their locations will be published in the May 1947 issue of the BULLETIN.

7. POWER—

(a) "A" Stations: The input to the valve or valves delivering power to the aerial or to any stage of the transmitter must not exceed 10 watts on either the 1.75 Mc/s. or 3.5 Mc/s. bands.

(b) "B" Stations: The input to the valve or valves delivering power to the aerial or to any stage of the transmitter must not exceed 25 watts on either the 7 Mc/s. or 14 Mc/s. bands.

8. The power supply must not be derived from public or private supply mains.

9. The height of the aerial at any point must not exceed 45 feet above ground level, nor may the point of suspension exceed 45 feet from ground level.

10. Stations must be operated from tents.

11. No apparatus may be erected on the site prior to 12.00 B.S.T., June 7, 1947. This rule includes aerial and aerial fittings as well as tented accommodation.

12. The event is restricted to the use of C.W. only. Any station receiving consistent tone reports lower than TS will automatically be disqualified.

13. Points will be scored for established contacts on the following basis:

A.—Between all Town or Area Portable Stations and Fixed Stations:

- | | |
|--|----------|
| (a) Outside the Town or Area (or Town or Area Group), but within the British Isles | 1 point |
| (b) In the rest of Europe (including Eire) | 2 points |
| (c) Outside Europe | 3 points |
| (d) In the British Empire | 6 points |

B.—Between G, GC and GW portable stations on the one hand, and:

- | | |
|--|----------|
| (a) Portable stations outside their Town or Area (or Town or Area Group), but within the prefix zones G, GC and GW | 3 points |
| (b) Portable stations in the prefix zones GI and GM | 4 " |
| (c) Portable stations in Europe (including Eire) | 4 " |
| (d) Portable stations outside Europe | 6 " |
| (e) Portable stations in the British Empire | 12 " |

C.—Between GI and GM portable stations on the one hand, and:

- | | |
|---|----------|
| (a) Portable stations outside their Town or Area (or Town or Area Group), but within the prefix zones GI and GM | 3 points |
| (b) Portable stations outside the prefix zones GI and GM, but within the British Isles and Eire | 4 " |
| (c) Portable stations in Europe | 5 " |
| (d) Portable stations outside Europe | 6 " |
| (e) Portable stations in the British Empire | 12 " |

14. In addition to the National Field Day Trophy,

which will be awarded to the Town or Area Group obtaining the highest combined score, miniature replicas will be awarded to the runners-up. A certificate will be awarded to the chief operator of the British Empire or foreign portable station contributing the largest number of points to stations taking part in the event.

15. An exchange of reports (R.S.T.) must be made before points can be claimed: proof of contact may be required.

16. Contacts with ships or unlicensed stations, located in countries where licences are obtainable, will not be permitted to count for points. The decision as to whether a station is to be classed as unlicensed will rest with the Council of the Society.

17. All entries must be submitted and signed by the T.R. or A.R. who will be solely responsible for the conduct of the event in his town or area.

18. The official entry form must be signed in full

by the station operator at the time of each contact.

19. Entries must be made on the approved form issued to competitors by Headquarters. Entries must reach the Honorary Secretary, R.S.G.B. Contests Committee, New Ruskin House, Little Russell Street, W.C.1, not later than June 16, 1947.

20. The N.F.D. Trophy will be held by the winning Town or Area Group for one year and will be handed to the T.R. or A.R. who will be held responsible for its custody during the year.

21. Operators of portable stations competing in the event must be holders of a G.P.O. Amateur Transmitting Licence and must be fully paid-up members of the Society.

22. The Council of the Society reserves the right to amend or alter these Rules at any time prior to the commencement of the event and their decision will be final in all cases of dispute.

Top-Band Contest, 1947

IN response to many requests from members for more "Top-Band" Contests, the 1947 event will be run in two sections. The first section will take place during March, and the second during November.

The Rules for the 1946 Contest (published in the November BULLETIN) will apply, except for the following modifications:—

(i) The Contest will be open to fully paid-up Members resident in the British Isles (prefix zones G, GI, GM, GW and GC) or serving in the British Occupation Zone of Germany (D2).

(ii) The Contest will commence at 22.00 G.M.T. on SATURDAY, MARCH 1 and conclude at 10.00 G.M.T. on SUNDAY, MARCH 2, 1947.

(iii) Completed entries must reach the Honorary Secretary, R.S.G.B. Contests Committee, New Ruskin House, Little Russell Street, London, W.C.1, not later than MONDAY, MARCH 10, 1947. Entries will if requested be acknowledged.

(iv) Any competitor receiving consistent tone reports lower than T8 will automatically be disqualified.

(v) A trophy will be awarded to the competitor scoring the highest combined total in the two sections of the contest. Certificates of Merit will be awarded to the winners and runners-up in each event.

Once again the point is stressed that entry forms should be carefully completed. A number of entrants for the 1946 contest lost points, whilst some were disqualified, because their log showed errors or was incomplete.

Competitors are urged to make full use of the new signal "QMF"—*"I am listening for replies around my own frequency."*

Logs submitted for checking purposes only should clearly state "Check Log."

W.A.S.

For the information of those members who are attempting to qualify for the Worked All States (W.A.S.) Certificate issued by the A.R.R.L. we give herein a list of the 48 United States of America. Claims for the W.A.S. Certificate should be sent to the A.R.R.L., 38 La Salle Road, West Hartford, Connecticut, U.S.A., and *not* to the R.S.G.B. Cards or other documents must be submitted confirming two way communication with one amateur station in each State. A specially endorsed Certificate is issued to those who effect two way telephonic communication with the 48 States.

List of United States

Alabama	Louisiana	Oklahoma
Arizona	Maryland	Oregon
Arkansas	Massachusetts	Pennsylvania
California	Michigan	Rhode Island
Colorado	Minnesota	South Carolina
Connecticut	Mississippi	South Dakota
Delaware	Missouri	Tennessee
District of Columbia	Montana	Texas
Florida	Nebraska	Utah
Georgia	Nevada	Vermont
Idaho	New Hampshire	Virginia
Illinois	New Jersey	Washington
Indiana	New Mexico	West Virginia
Iowa	New York	Wisconsin
Kansas	North Carolina	Wyoming
Kentucky	North Dakota	
	Ohio	

QSL Bureau

For the information of members, the essential rules governing the R.S.G.B. QSL Bureau are set out below.

1. The service is free to Members.
2. Non-members may collect but not send cards.
3. All cards and envelopes must be sent to the official address:—G2MI, 29 Kechill Gardens, Hayes, Bromley, Kent, *not* to R.S.G.B. Headquarters.
4. If you want to collect your cards please send in a supply of reasonable sized envelopes (which will take a large postcard) print your call-sign in the top left hand corner of each and don't forget to put a 2½d. stamp on each.
5. If you do not want your cards, please tell us, so that we can keep our files clear.
6. Don't send letters, membership dues, postal, orders, record cards, etc., with your QSL cards.
7. Please sort your cards, if you send a lot. G2, 3, 4, 5, 6, 8, G2AAA-CZZ, DAA-HZZ, G3AAA-W1, 2, 3, 4, 5, etc. It takes you only a few minutes and saves us hours of work. Please put all cards for one country together.
8. Send cards for rare countries direct. Read "Month on the Air" for the QRA's.

The R.S.G.B. Bureau is now handling some 20,000 cards per week and anything you can do to smooth the working of the system will be much appreciated. Large numbers of cards for the U.S.A. and Canada may be sent just as cheaply direct to the A.R.R.L., 38 La Salle Road, West Hartford, 7, Conn., U.S.A. Cards if in packets, tied so that the ends are open, can be sent by Commercial Paper Rate, which is the same as Printed Paper Rate with a minimum of 2½d.

The Bureau is, of course, equally open to the BRS member as to the transmitter.

EXPERIMENTERS' CONTACT BUREAU

WITH reference to the announcement published in the October, 1946, issue of the BULLETIN, we now list the names and addresses of those members who have expressed a desire to contact others interested in kindred subjects.

Name	Address	Call Sign	Name	Address	Call Sign
GROUP 1 (AERIALS)					
R. T. L. ALLEN ..	Holbrook A, Hampton Park, Hereford.	BRS9849	G. M. JONES ..	58 Harpers Lane, Smithills, Bolton, Lancs.	BRS8461
J. F. COLLETT ..	64, Taunton Road, Sparkbrook, Birmingham, 12.	BRS10827	H. J. KING ..	48 Mount View Road, North Chingford, London, E.4.	G2AIP
T. J. GRAY ..	10 Lambridge, Bath, Somt.	G3AHM	G. MERCER ..	255 Bitterne Road, Bitterne Park, Southampton.	BRS13746
L. H. LOMAS ..	High Bank, Whirley, Macclesfield, Cheshire.	G2HB	N. L. PARLETT ..	341 High Street, Lincoln.	BRS3700
B. F. SMITH ..	101 Belgrave Road, Wyken, Coventry.	BRS12399	L. PIERSE ..	5 Cockram Road, Surbiton, Surrey.	BRS13201
J. R. WORDSWORTH	"Glenhaven," Cliff Road, Wembury, Devonshire.	BRS13489	L. G. WOOLLETT ..	32 Lakeswood Road, Petts Wood, Kent.	BRS9283
(a) Below 100 Mc/s.			(b) Microphones		
N. M. BEST ..	1 Cleve Road, West Hampstead, London, N.W.6.	BRS11877	A. M. BENNETT ..	11 Charlton Road, Blackheath, London, S.E.3.	BRS4125
F. COLLETT ..	64 Taunton Road, Sparkbrook, Birmingham, 12.	BRS10827	A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BRS5944
N. V. DAVIES ..	42 Cranbourne Road, Salt-Hill, Slough.	BRS7107	W. T. CLEMENTS	31 Sackville Road, Hailsham, Sussex.	BRS8407
H. FLINTHAM ..	50 Burton Avenue, Balby, Doncaster.	BRS193	L. G. JOHNSON ..	16 Wincheombe Gardens, Eltham, London, S.E.9.	BRS12113
J. K. McDOWALL	15 Ruthven Avenue, Giffnock, Scotland.	GM3AR	G. M. JONES ..	58 Harpers Lane, Smithills, Bolton, Lancs.	BRS8461
D. E. POSTLE ..	25 Pound Lane, Gorleston-on-Sea, Norfolk.	G2FAD	L. R. PIERSE ..	5 Cockram Road, Surbiton, Surrey.	BRS13201
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR	L. G. WOOLLETT ..	32 Lakeswood Road, Petts Wood, Kent.	BRS9283
J. WOODAGE ..	68 Windsor House, Nash St., London, N.W.1.	Associate.	GROUP 3 (CONTROL EQUIPMENT)		
(b) Above 100 Mc/s.			A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BRS5944
N. M. BEST ..	1 Cleve Road, West Hampstead, London, N.W.6.	BRS11877	J. BUTTERWORTH	1088 Manchester Road, Castleton, Rochdale, Lancs.	G5XF
K. R. BOOT ..	75 Beech Tree Lane, Cannock, Staffs.	G2FZG	A. R. STRINGER ..	6 School Hill, Chapel End, Nuneaton.	BRS13684
J. F. COLLETT ..	64 Taunton Road, Sparkbrook, Birmingham, 12.	BRS10827	M. P. WAX ..	2 Parkview Court, Fulham, London, S.W.6.	BRS8430
H. FLINTHAM ..	50 Burton Avenue, Balby, Doncaster.	BRS193	GROUP 4 (CONSTRUCTION METHODS)		
W. E. GATES ..	67 Broad Street, Scout Hill, Dewsbury, Yorks.	BRS6655	B. R. EDWARDS ..	3A Elm Parade, Sideup, Kent.	BRS15001
K. W. HOLMES ..	42 Knapton Lane, Acomb, York.	BRS11504	R. K. QUIGG ..	18 Breda Gardens, Newtown-breda, Belfast.	BRS8808
D. E. POSTLE ..	25 Pound Lane, Gorleston-on-Sea, Norfolk.	G2FAO	A. SMITH ..	16 Rockcliffe Avenue, Baildon, Yorks.	G2BOO
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR	J. B. TRUEMAN ..	141 Ince Avenue, Liverpool 4, Lancs.	BRS12431
(c) Construction			(a) Workshop Practice		
N. M. BEST ..	1 Cleve Road, West Hampstead, London, N.W.6.	BRS11877	J. W. BRUCE ..	175 Findhorn, Forres, Scotland.	BRS11815
H. FLINTHAM ..	50 Burton Avenue, Balby, Doncaster.	BRS193	D. S. MITCHELL ..	"The Flagstaff," Colwyn Bay, North Wales.	GW6AA
D. E. POSTLE ..	25 Pound Lane, Gorleston-on-Sea, Norfolk.	G2FAO	J. B. TRUEMAN ..	141 Ince Avenue, Liverpool 4, Lancs.	BRS12431
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR	(b) Materials		
J. WOODAGE ..	68 Windsor House, Nash St., London, N.W.1.	Associate	G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
J. R. WORDSWORTH	Glenhaven, Cliff Road, Wembury, South Devon.	BRS13489	J. W. BRUCE ..	175 Findhorn, By Forres, Scotland.	BRS11815
GROUP 2 (AUDIO EQUIPMENT)			D. S. MITCHELL ..	"The Flagstaff," Colwyn Bay, North Wales.	GW6AA
D. W. ALDOUS ..	"Strathdee," Studley Road, Torquay, Devon.	BRS1006	N. L. PARLETT ..	341 High Street, Lincoln.	BRS3700
R. W. LOWDEN ..	3A Pembroke Buildings, Camberley, Surrey.	BRS6495	L. B. TRUEMAN ..	141 Ince Avenue, Liverpool 4, Lancs.	BRS12431
(a) High-Fidelity			GROUP 5 (DIRECTION FINDING)		
D. G. ALEXANDER	6 Dighton Road, Wandsworth, London, S.W.18.	BRS4292	A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BRS5944
R. T. L. ALLEN ..	Holbrook A, Hampton Park, Hereford.	BRS9849	W. E. GATES ..	76 Broad Street, Scout Hill, Dewsbury, Yorks.	BRS6655
A. M. BENNETT ..	11 Charlton Road, Blackheath, London, S.E.3.	BRS4125	T. J. GRAY	10 Lambridge, Bath, Somt.	G3AHM
A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BRS5944	GROUP 6 (MEASURING EQUIPMENT)		
W. T. CLEMENTS	31 Sackville Road, Hailsham, Sussex.	BRS8407	J. A. BROWNING ..	"Meads," Jacobean Lane, Knowle, Birmingham.	BRS4240
D. L. COPPENDALE	9 Morden Road, Chadwell Heath, Essex.	BRS4842	A. G. FOSTER ..	14 Leigh Road, Highbury, London, N.5.	G3API
R. G. FINCH ..	26 Sunnymede Avenue, Carshalton Beeches, Surrey.	BRS12805	T. J. GRAY ..	10 Lambridge, Bath, Somt.	G3AHM
A. G. FOSTER ..	14 Leigh Road, Highbury, London, N.5.	G3API	P. HALLIGHEY	8 Princes Gardens, Ealing, London, W.5.	G8PI
L. G. JOHNSON ..	16 Wincheombe Gardens, Eltham, S.E.9.	BRS12113	J. B. HARRIS ..	65 Gurney Court Road, St. Albans, Herts.	G3ABT
			R. K. QUIGG ..	18 Breda Gardens, Newtown-breda, Belfast.	BRS8808

Name	Address	Call Sign
A. M. RIX ..	2 Mitchell Road, Palmers Green, London, N.13.	BR87509
A. SMITH ..	16 Rockcliffe Avenue, Baildon, Yorks.	G2B00
(a) Oscilloscopes		
A. BEDFORD ..	933 Spring Bank West, Hull, Yorks.	BR89408
G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
J. C. BRIDGWATER	38 Brunswick Street, St. Thomas, Exeter, Devon.	G3AIF
A. H. BURKILL ..	18 Raglan Court, Willesden, London, N.W.10.	BR89793
D. COOKE ..	584 Ashley Road, Parkstone, Dorset.	BR87540
D. W. DAVIDSON	"Arrochar," Arthog Road, Hale, Cheshire.	BR813590
R. G. FINCH ..	26 Sunnymede Avenue, Carshalton Beeches, Surrey.	BR812805
E. T. PAGE ..	14 London Road, Coalville, Leicestershire.	BR813100
N. L. PARLETT ..	341 High Street, Lincoln.	BR83700
J. SPENCER ..	47 Rastrick Common, Brighouse, Yorks.	BR810603

(b) Frequency Meters

A. BEDFORD ..	933 Spring Bank West, Hull, Yorks.	BR89408
A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BR85944
L. BLAGBROUGH ..	39 Fountain Street, Sowerby Bridge, Yorks.	BR815012
G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
J. BRIDGWATER ..	38 Brunswick Street, St. Thomas, Exeter.	G3AIF
D. W. DAVIDSON	"Arrochar," Arthog Road, Hale, Cheshire.	BR813590
N. L. PARLETT ..	341 High Street, Lincoln.	BR83700

(c) Miscellaneous

A. BEDFORD ..	933 Spring Bank West, Hull, Yorks.	BR89408
A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BR85944
J. A. BRIDGWATER	38 Brunswick Street, St. Thomas, Exeter.	G3AIF
D. W. DAVIDSON	"Arrochar," Arthog Road, Hale, Cheshire.	BR813590
N. L. PARLETT ..	341 High Street, Lincoln.	BR83700

GROUP 7 (MODULATION SYSTEMS)

E. CROSS ..	17 Meredyth Road, Barnes, London, S.W.13.	BR811716
F. C. POTTER ..	"Searsdale," Vansittart Rd., Torquay, Devon.	BR813646

(a) Amplitude Modulation

A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BR85944
F. C. POTTER ..	"Searsdale," Vansittart Rd., Torquay, Devon.	BR813646

(b) Frequency Modulation

W. E. GATES ..	67 Broad Street, Scout Hill, Dewsbury, Yorks.	BR86655
D. A. TAIT ..	20 Kirk Crescent, Old Kilpatrick, Glasgow.	GM3AFB
F. C. POTTER ..	"Searsdale," Vansittart Rd., Torquay, Devon.	BR813646

(c) Pulse Modulation

F. C. POTTER ..	"Searsdale," Vansittart Rd., Torquay, Devon.	BR813646
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GROUP 8 (PORTABLE-MOBILE EQUIPMENT)

A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BR85944
N. A. CHAMPNESS	8 Shrublands Close, Chelmsford, Essex.	G2AAU
R. FARR ..	10 Distillery Sides, Elliscar, Barnsley, Yorks.	G8IJ
D. S. MITCHELL ..	"The Flagstaff," Colwyn Bay, North Wales.	GW6AA
B. F. SMITH ..	101 Belgrave Road, Wyken, Coventry.	BR812399
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR
M. P. WAX ..	2 Parkview Court, Fulham High Street, London, S.W.6.	BR88430
J. R. WORDSWORTH	Glenhaven, Cliff Road, Wembury, Devon.	BR813489

GROUP 9 (POWER SUPPLIES)

B. R. EDWARDS ..	3A Elm Parade, Sideup, Kent.	BR815001
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Name	Address	Call Sign
M. P. WAX ..	2 Parkview Court, Fulham High St., London, S.W.6.	BR88430
GROUP 10 (PROPAGATION)		
A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BR85944
L. BLAGBROUGH	39 Fountain Street, Sowerby Bridge, Yorks.	BR815012
B. H. BRIGGS ..	20 Lindley Drive, Great Horton, Bradford.	G2FJD
J. F. COLLETT ..	64 Taunton Road, Sparkbrook, Birmingham, 12.	BR810827
M. PITTAM ..	Stacey Hill Farm, Wolverton, Bletchley, Bucks.	BR82977
D. E. POSTLE ..	25 Pound Lane, Gorleston-on-Sea, Norfolk.	G2FAO
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR
E. J. WILLIAMS ..	34 London Road, Widley, Portsmouth.	G2XC
S. R. WOOD ..	15 Coquet Terrace, Dudley, Northumberland.	BR812209
DR. E. S. VANCE	43 Blackwell Road, Huthwaite, Nr. Mansfield, Notts.	G8SA

GROUP 11 (RECEIVERS)

R. T. L. ALLEN ..	Holbrook A, Hampton Park, Hereford.	BR89849
S. C. DUTTA ..	B.A. Railway Wireless Station, P.O. Akhaura, Tippera, India.	FR889
A. G. FOSTER ..	14 Leigh Road, Highbury, London, N.5.	G3API
F. C. POTTER ..	"Searsdale," Vansittart Rd., Torquay, Devon.	BR813646
B. F. SMITH ..	101 Belgrave Road, Wyken, Coventry.	BR812399

(a) Below 30 Mc/s.

D. G. ALEXANDER	6 Dighton Rd., Wandsworth, London, S.W.18.	BR84292
N. V. DAVIES ..	42 Cranbourne Road, Salt-hill, Slough, Bucks.	BR87107
S. C. DUTTA ..	B.A. Railway Wireless Station, P.O. Akhaura, Tippera, India.	FR889
F. L. H. JONES ..	16 Goyhurst Road, Dalston, London, E.8.	BR812278
J. WOODAGE ..	68 Windsor House, Nash Street, London, N.W.1.	Associate
J. R. WORDSWORTH	Glenhaven, Cliff Road, Wembury, Devonshire.	BR813489

(b) Up to 600 Mc/s.

G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
K. R. BOOT ..	75 Beech Tree Lane, Cannock, Staffs.	G2FZG
N. V. DAVIES ..	42 Cranbourne Road, Salt-hill, Slough.	BR87107
H. FLINTHAM ..	50 Burton Avenue, Balby, Doncaster.	BR8193
W. E. GATES ..	67 Broad Street, Scout Hill, Dewsbury, Yorks.	BR86655
A. G. HILL ..	61 Third Avenue, Chelmsford, Essex.	G2KG
W. R. MARSHALL	5 St. Nicholas Avenue, Hesse High Road, Hull, Yorks.	BR813406
F. C. POTTER ..	"Searsdale," Vansittart Rd., Torquay, Devon.	BR813646
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR
D. R. WILLIAMS	12 Avenue Road, Isleworth, Middlesex.	BR812558

(c) Above 600 Mc/s.

G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
K. R. BOOT ..	75 Beech Tree Lane, Cannock, Staffs.	G2FZG
H. FLINTHAM ..	50 Burton Avenue, Balby, Doncaster.	BR8193
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR
J. G. WALFORD	34 Station Road, Alford, Lincs.	BR810808
D. R. WILLIAMS	12 Avenue Road, Isleworth, Middlesex.	BR812558

GROUP 12 (SOUND RECORDING EQUIPMENT)

D. W. ALDOUS ..	"Strathdee," Studley Road, Torquay.	BR81006
A. M. BENNETT ..	11 Charlton Road, Blackheath London, S.E.3.	BR84125
A. BERGOL ..	294 Brookvale Road, Erdington, Birmingham, 23.	BR85944
W. T. CLEMENTS	31 Sackville Road, Hailsham, Sussex.	BR88407

Name	Address	Call Sign
D. E. COOKE ..	584 Ashley Road, Parkstone, Dorset.	BRS7540
R. D. COYLE ..	C/o. 89 St. Albans Road, Lytham St. Annes, Lancs.	BRS10859
J. R. FENNESSY ..	65 Balmoral Drive, Southport.	G5ZI
A. G. GOVES, M.B.E.	Town Hall, High Wycombe, Bucks.	BRS12240
L. G. JOHNSON ..	16 Winchcombe Gardens, Eltham, London, S.E.9.	BRS12113
G. M. JONES ..	58 Harpers Lane, Smithills, Bolton, Lancs.	BRS8461
R. W. LOWDEN	3A Pembroke Buildings, Camberley, Surrey.	BRS6495
B. PASHLEY ..	124 Nicholson Road, Sheffield 8, Yorks.	G6PJ
S. V. RAYNER ..	61 Wynchgate, Southgate, London, N.14.	BRS5269
L. G. WOOLLETT ..	32 Lakeswood Road, Petts Wood, Kent.	BRS9283

GROUP 13 (TELEARCHICS—CONTROL OF MODELS)		
H. T. EDDISON ..	Merafield House, Plympton, South Devon.	BRS11950
D. G. FARQUHARSON	11 Coombe Rise, Kingston, Surrey.	G3MF
R. H. FARR ..	10 Distillery Side, Elsecar, Barnsley.	G8IJ
G. S. HALL ..	17 High Street, Needham Market, Suffolk.	BRS11453
K. W. HOLMES ..	42 Knapton Lane, Acomb, York.	BRS11504
W. R. MARSHALL ..	5 St. Nicholas Avenue, Hessele High Road, Hull.	BRS13406
B. F. SMITH ..	101 Belgrave Road, Wyken, Coventry.	BRS12399

GROUP 14 (TELEVISION)		
A. H. BURKILL ..	18 Raglan Court, Willesden, London, N.W.10.	BRS9793
W. T. CLEMENTS ..	31 Sackville Road, Hailsham, Sussex.	BRS8407
R. D. COYLE ..	C/o. 89 St. Albans Road, Lytham St. Annes, Lancs.	BRS10859
A. G. FOSTER ..	14 Leigh Road, Highbury, London, N.5.	G3API
A. J. GARNOCK-JONES ..	"Brentwood," Sandfield Park, Liverpool, 12.	G8TJ
A. G. GOVES, M.B.E.	Town Hall, High Wycombe, Bucks.	BRS12240
G. G. SMITH ..	39 Verulam Road, Greenford, Middlesex.	BRS8193
J. G. WALFORD ..	34 Station Road, Alford, Lincs.	BRS10808
D. R. WILLIAMS ..	12 Avenue Road, Isleworth, Middlesex.	BRS12558

Name	Address	Call Sign
GROUP 15 (TRANSMITTERS)		
N. A. CHAMPNESS	8 Shrublands Close, Chelmsford, Essex.	G2AAU
A. G. FOSTER ..	14 Leigh Road, Highbury, London, N.5.	G3API
G. O. PARFITT ..	20 Redland Park, Bristol 6.	BRS9032
B. F. SMITH ..	101 Belgrave Road, Wyken, Coventry.	BRS12399
A. SLEEMAN ..	20 Elm Road, Exmouth, Devon.	BRS6274
(a) Below 100 Mc/s.		
G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
A. J. GARNOCK-JONES	"Brentwood," Sandfield Park, Liverpool, 12.	G8TJ
J. R. WORDSWORTH	Glenhaven, Cliff Road, Wembury, Devon.	BRS13489
(b) Above 100 Mc/s.		
G. F. BLOOMFIELD	1 Fordwich Road, Welwyn Garden City, Herts.	G2NR
K. R. BOOT ..	75 Beech Tree Lane, Cannock, Staffs.	G2FZG
J. A. BRIDGWATER	38 Brunswick Street, St. Thomas, Exeter, Devon.	G3AIF
W. E. GATES ..	67 Broad Street, Scout Hill, Dewsbury.	BRS6655
J. B. HARRIS ..	65 Gurney Court Road, St. Albans, Herts.	G3ABT
A. G. HILL ..	61 Third Avenue, Chelmsford, Essex.	G2KG
K. W. HOLMES ..	42 Knapton Lane, Acomb, York.	BRS11504
W. R. MARSHALL	5 St. Nicholas Avenue, Hessele High Road, Hull.	BRS13406
P. L. STILES ..	20 Temple Sheen Road, East Sheen, London, S.W.14.	G2BHR
J. G. WALFORD ..	34 Station Road, Alford, Lincs.	BRS10808
D. R. WILLIAMS ..	12 Avenue Road, Isleworth, Middlesex.	BRS12558
(c) Construction		
J. A. BRIDGWATER	38 Brunswick Street, St. Thomas, Exeter, Devon.	G3AIF
D. S. MITCHELL	"The Flagstaff," Colwyn Bay, North Wales.	GW6AA

The General Secretary will be pleased to hear from members who are willing to act as Leaders of the main Groups. The duties of a Group Leader would be to circularise information to the members in his Group and to draw the attention of Headquarters to original material which might form the subject of technical contributions to the Bulletin.

THE MONTH ON FIVE

By W. A. SCARR, M.A. (G2WS)

BEFORE these notes appear, the first half of the 5-metre contest will be over. Preparation for the event, coupled with the difficulties of living in an Arctic climate, have doubtless accounted for a month of small-scale activity. All the same, January did show what it could do, for during the last week-end of the month, conditions exceeded anything recorded since last October and a few stations achieved really good DX. G5BD found Southern stations coming in at phenomenal strength. He worked G2IQ, 2MR, 2MV, 4LU and 8SX as first contacts. The "sked" with G8JV (Nottingham) daily at 21.00 GMT has given 100 per cent. results.

The achievements of G6DH and 5BY have produced numerous letters about pre-war DX records. Incidentally, WIHDQ has now confirmed that G5BY was the first station to hear him on 50 Mc/s. during the recent tests.

Finally, a note about the present contest. Stations active during the contest but not participating are urged to send in logs marked "check log only." Without these logs, competitors who work the non-participants will lose points. Competitors are also requested to send a note of DX stations heard but not worked. A mass of highly interesting and valu-

able data is likely to be obtained from the contest and all notes and observations made by individual stations will add to the value of the information obtained.

Later News.—WIHDQ reports via G6DH that J9AAK worked Okinawa on 50 Mc/s. on January 25. It is also reported that KH6PH and W7ACS have been in contact over a distance of 4,000 miles. Between January 18 and 24 G6DH was hearing signals up to 51 Mc/s.

Kill the Long CQ

We have been asked by the G.P.O. to remind transmitting members that long CQ calls, whether on telephony or telegraphy, are strongly deprecated and are in fact forbidden by the terms of the current licence. Instances have been reported of CQ calls lasting upwards of 10 minutes. To send CQ more than 3 times in succession without giving your call is a waste of time. When tuning over the band, we are interested far more in the identity of a station calling CQ than in the mere fact that some unidentified station is calling CQ.

A little friendly advice tactfully offered over the air is probably the best way to kill the long CQ.

County Representatives

Acting on advice received from their Regional Representatives, the Council has been pleased to approve the following appointments to the office of County Representative :—

Region	Name, Address and Call Sign.
REGION 3 Staffordshire ..	J. M. FOGGO, G2COP, 9 Cherry Orchard, Lichfield.
REGION 4 Lincolnshire ..	G. HUTSON, G6GH, 11 Wide Bargate, Boston.
REGION 5 Suffolk	F. W. G. WELLS, G3ATJ 63 Bury Road, Stowmarket.
REGION 6 Berkshire	R. M. EVANS, G6CU, 5 St. Luke's Road, Maidenhead.
REGION 9 Cornwall	D. J. BEATTIE, G2WW, Municipal Building, Penzance.
Wiltshire	F. S. ADAMS, G2YN, Radio Works, North Street, Wilton, Salisbury.
REGION 14 Stirlingshire and Clackmannanshire Lanarkshire	C. M. WINTON, GM6XW, 146 Broomagebank, Larbert. J. W. JEFFERY, GM2DI, "Craigmaria," Coronation Street, Wishaw.
City of Glasgow ..	D. R. MACADIE, GM6MD, 154 Kings-acre Road, Kings Park.

In regard to Regions 6 and 15, which are at present without a Regional Representative, the Council have approved the following nominations submitted by local members :—

Region	Name, Address and Call Sign.
REGION 6 Bedfordshire ..	A. P. G. AMOS, G3AGM, "Twygwyn," Mentone Avenue, Aspley Guise, Blechley, Bucks. (Although his postal address is in Bucks., Mr. Amos states that his residence is in Bedfordshire.
Buckinghamshire ..	H. J. SHERRY, G6JK, 17 New Drive, Totteridge, High Wycombe.
REGION 15 Antrim	R. BARR, G15UR, 4 Dunkeld Gardens, Oldpark, Belfast, N. Ireland.

Town Representatives

Further to the lists published in recent issues the following members have been appointed Town Representatives :—

Town.	Name, Call Sign and Address.
Bangor (N. Wales) ..	D. M. WILLIAMS, GW2CSX, Clwydy-Wylan, Menai Bridge, Anglesey.
Boston	L. J. COUPLAND, G2BQC, 133 Carlton Road.
Brentwood	J. R. E. DRISCOLL, G8RC, Montazah, St. Charles Road.
Glasgow	J. B. RIMMER, GM3AKA, 109 Crofton Avenue, Croftfoot.
Grimsby and Cleethorpes.	J. W. BOOTH, G2AJB, 33 Buller Street, Grimsby.
Reading	R. G. NASH, BR54573, 9 Holybrook Road.
Rhyl and Prestatyn ..	F. G. SOUTHWORTH, BR513213, "Samlesbury," Holywell, Flint.
Stirling and Falkirk ..	B. B. FULTON, GM6JQ, Kerton, Burnbrae Road, Falkirk.
Warwick, Leamington and Kenilworth.	R. WEBB, G8WL, 11 Warwick Road, Kenilworth.

The Kon-tiki Expedition

It has been brought to our notice by the G.P.O. that a somewhat novel form of ocean expedition, to be known as the Kon-tiki expedition, is being undertaken by a party of eight Norwegians with a view to investigating a theory held by the leader, Mr. Thor Heyerdahl, that the inhabitants of the Polynesian group of islands, concerning the origins of whom there has long been speculation, are descended from the Incas of Peru, who are believed to have found their way by means of rafts carried along by the westerly currents from the shores of Peru to the Marquesas, Society Islands, and other associated groups. Mr. Heyerdahl plans to leave Peru with his party early next month, on a raft similar in all major respects to those which, from records of the Spaniards which he has examined, were used by the Incas. The duration of the period at sea is estimated to last approximately four months and the expedition will carry with them modern equipment designed to assist them in maintaining good physical health during their exposure to the elements, and will include ample stocks of tinned and dehydrated provisions, in addition to supplies of water, the latter being supplemented by a number of Higgins' stills which operate from solar radiation.

It is hoped to maintain wireless communication between the raft and civilisation, and tentative plans include periodic transmissions in the 14, 28 and 56 Mc/s. amateur bands with transmission power between 15-20 watts input. In addition, it is hoped to use three other frequencies in the mobile maritime bands with the same power. The Central Radio Propagation Laboratory of the National Bureau of Standards, Washington, has expressed interest in the communications aspect of the expedition and it is hoped that valuable information will be obtained from the reception data from the raft transmissions. The matter has also been brought to the notice of the American Radio Relay League of America, who have intimated that they will co-operate in establishing two-way contacts with the raft if possible, failing which they will compile reception reports. Australian and Canadian Amateur authorities are also being informed of the project. It is thought that the physical dimensions of the raft will preclude the use of frequencies lower than 14 Mc/s., but the opinion has been expressed that conditions in the area concerned may enable signals to be received in the 28 and 56 Mc/s. ranges.

The expedition will use the call-sign LI2B.

Ultra Short Wave Equipment

The Editors of this booklet (due to be published during the summer) are anxious to obtain descriptions, photographs or sketches of V.H.F. (above 30 Mc/s.) equipment, including aerial systems. Good photographs of contemporary equipment are especially required.

The Society is prepared to bear the cost of photographing, by a professional, if necessary, but no photographer should be engaged until preliminary details and sketches have been submitted.

Those members who can assist are invited to write immediately to Mr. A. J. Bayliss, B.Sc., G8PD, 122B Windermere Avenue, South Kenton, Wembley, Middlesex.

P.O.W. Re-union

Unfortunately the photograph taken at the P.O.W. Re-union is not sufficiently sharp for reproduction, but half-plate mounted copies can be obtained on application to Mr. F. G. Hoare, G6DP, 6 Dunheved Close, Thornton Heath, Surrey, price 3s. 6d. each.



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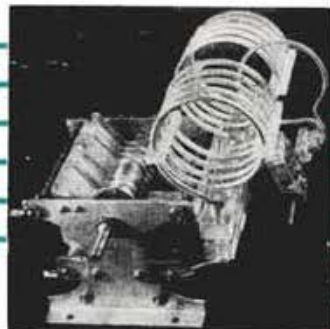
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