
R·S·G·B

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WE LOOK BACK

SEPTEMBER in peacetime was the month when the thoughts of most members turned towards London—and Convention. Not all could attend, but as the years passed, attendances increased until in September, 1938, every previous record went by the board, and available accommodation was strained to breaking point. Something drastic had to be done, and if the war had not intervened, Old Timers would have seen how thoroughly the Council, then in office, had prepared for what would have been our Fourteenth Annual Convention.

Appreciative of the difficulties which had been created by spreading Convention activities over three or more widely separated centres of interest, the Council had decided, early in 1939, to reserve adequate accommodation at one of London's largest hotels. It was planned that all meetings and social functions should take place under one roof—but that was not all. For the first time in the history of the Society the stage had been set for a specialised short-wave radio exhibition which was scheduled to run throughout the period set aside for Convention. We have little doubt that this exhibition would have proved the high spot of the week, further it would have established very definitely, that the amateur radio market was something to be reckoned with and catered for.

Unfortunately these grandiose schemes were doomed to fall by the wayside, thanks to Nazi Germany, but they have not been forgotten.

In recollecting this disappointment our minds go back to the Society as we knew it during that late summer of 1939. Membership was steadily increasing—we recorded our pre-war peak total of 3,650 during August of that year. We had but recently produced the first edition of our Handbook—a mere 3,000 copies but sufficient in those days for our needs. (Who would have guessed that during the next three years over 70,000 copies would be sold?) All ears were strained to catch a whisper of that DX which we felt convinced would eventually turn up on 56 Mc/s. National Field Day (the seventh of the series) had provided its devotees with an exciting week-end, and a grand win for District 4. The W6's and the K6's were "rolling

in" nearly every morning on 14 Mc/s; VR6AY and AC4YN—to say nothing of TA1AA—were calls to be reckoned with; Nevada had at last "turned up trumps" to give many of us that last State for the coveted W.A.S. certificate; the G4's were quickly demonstrating their ability to hold their own with the old stagers. Our Correspondence columns carried views on such topics as good operating, the futility of high power (!), frequency measurement and rotary beams. THE BULLETIN ran to 72 pages per issue and a "100-pager" was on the stocks for September. American receivers and transmitters were being extensively advertised; British manufacturers, awake at last to the "call of the ham", were vying one with the other to provide members with equivalents to popular American valves such as the 6L6 and the RK20. Provincial District Meetings had received excellent support throughout the summer. But behind all the apparent serenity there was a doubt in the minds of those whose duty it was to safeguard the interests of the Society. "Supposing war comes, what happens to the Society and to amateur equipment?" That question was on the lips of every member of Council as the month of August drew to its close. And then as the war clouds gathered, things began to happen—small things judged by themselves, but all indicative of the hectic times through which we were passing. One such incident occurred early one morning during the last few days of peace. For years we had been accustomed to see G6WY's cheery face bob round the open door of our office to deliver a "good morning" greeting, but on this particular morning it wore a more sombre look, Civilian Ham Whyte, prolific DX worker, had given way to Acting Pilot Officer H. A. Maxwell Whyte, R.A.F.V.R. Full of optimism as usual we remember Ham's remark: "Well, here we go, it will be over by Christmas now I'm in the R.A.F." Before that day had ended many more callers came and went, some in uniform, others on the way to their tailor or to a mustering centre.

And then another tiny incident occurred to stick in our mind. We had arrived home late from town—a telephone call came in. It was the voice of District Representative Bert Allen, G2UJ.: "Hullo, old man, just calling to say cheerio. Am reporting to—in the morning." The time was 8.30 p.m. and the date Friday, September 1. Little did we think that within 48 hours 760407 A.C.2 W. H. Allen would be one of a party of 55 ex-Civilian Wireless Reservists en route towards the Maginot Line.

That group of hams—later to be christened the "Early Birds"—made history, for had they not justified our oft-repeated contention that if war came the Services would immediately take advantage of the experience gained by those amateurs who had given of their best to further the science of radio communication?

Since the day when the "Early Birds" went to France, and scores of other amateurs responded to the call to serve their country on land, at sea and in the air, much has happened to make us feel mighty proud to be associated with the R.S.G.B. Our records show, for example, that up to date over 2,500 members have joined H.M. Forces or the Merchant Navy and

(Continued on page 48)

SIMULTANEOUS RADIO TELEPHONY

By J. H. SHANKLAND, B.Sc., Grad.I.E.E. (GM8FM).*

THE purpose of this article is to present a brief account of certain methods for effecting duplex telephony as distinct from the usual amateur method of running the transmitter during reception and employing a very selective receiver. These problems would normally have been occupying the author's attention, but, unfortunately, the war has prevented any original work being done. It is felt, however, that a short summary of previous work on the subject, together with some new suggestions, may prove of interest.

Modulation Applied to Local Oscillators

One method⁽¹⁾ is to apply modulation to the local oscillators of two similar superheterodynes. Fig. 1

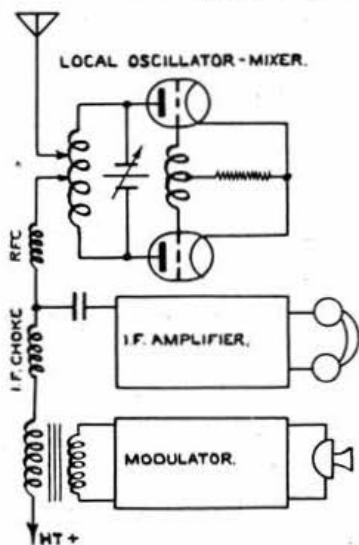


Fig. 1.

One of the earliest methods of providing duplex telephony operation. Modulation applied to local oscillators of two similar superheterodyne receivers.

shows a typical layout for one station. It will be seen that the local oscillators are also used as mixers, and the sets will have to be tuned to frequencies differing by the intermediate frequency of the receivers. Two disadvantages are immediately apparent; (1) the sets use different channels, (2) only low power is available for transmission. On frequencies of the order of 300 Mc/s. and higher, these defects are not so apparent. The first disadvantage may be overcome by using a resistance-coupled intermediate frequency amplifier peaked at say, 150 kc/s., and with a bandwidth of approximately 200 kc/s. to take care of oscillator drift, so that the sets will transmit on practically the same frequency, and the tuned circuit of the oscillator-mixer will not discriminate unduly against the signal frequency. The disadvantage of low oscillator power is not so important at these frequencies, since a push-pull local oscillator employing a pair of 955 "Acorns," should be capable of radiating a useful signal over a distance of ten or twenty miles, assuming the sets to be in favourable locations. If the radiation from the distant station during reception is high, the "side-tone" (i.e. the

reception of outgoing speech at the sending end) may become excessive, owing to the fact that the incoming continuous wave carrier would mix with the outgoing modulated carrier and produce a modulated signal for the I.F. amplifier of the sending set. The detected audio can of course be cancelled out by applying audio from one of the speech amplifiers to oppose the detected output from the I.F. amplifier. An alternative, or a refinement, would be to run the oscillator at very low power for reception, and employ some form of "floating carrier" for transmission, so that the carrier amplitude depends on the modulation. This, however, might give rise to some distortion on steep wave-fronts, and clipping of speech, unless suitable delay circuits are introduced, but commercial quality could no doubt be realised, and this is all that is required for amateur telephony.

Using Super-Regenerative Receivers

The second method for effecting simultaneous telephony is to employ a super-regenerative receiver for alternately transmitting and receiving at a super-sonic frequency—the sets being, in fact, "automatic transceivers." This type of set should be very useful for short distance contacts in spite of the low radiated power. As most pre-war users of the 56 Mc/s. band will know, a super-regenerative receiver, coupled direct to an aerial, will radiate strong signals for several miles, even with a very weakly-oscillating detector. As a powerful oscillator can also be a sensitive detector there should be no difficulty in obtaining adequate radiation. Actually, distances up to 25 miles have been covered with sets of this type, using a small 2 volt power valve as oscillator.

Before describing this duplex system, the mechanism of super-regenerative detection will be briefly discussed. The super-regenerative detector is a regenerative detector in which the oscillatory condition is periodically suppressed or quenched at a low radio-frequency rate. Fig. 2A shows the R.F. voltage developed across the tuned circuit of such a detector during one quench cycle. The oscillations die away to zero from t_1 to t_2 , this being termed the "quenched

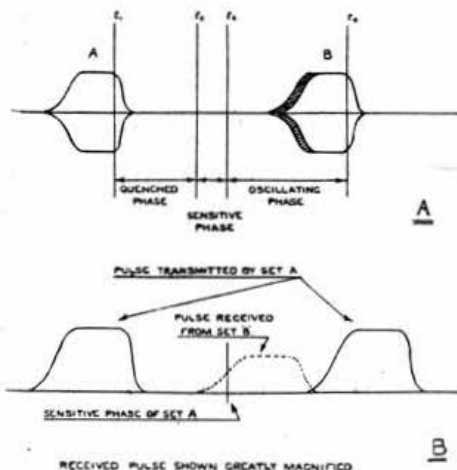


Fig. 2.

(a) Shows the R.F. voltage developed across the tuned circuit of a super-regenerative detector during one quench cycle.
(b) Phase relationship between transmitted and received pulses.

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phase." From t_2 to t_3 is the "sensitive phase," in which the oscillation starts to increase exponentially, the initial pulse required to start the oscillation being supplied by thermal agitation, shot effect, etc. The time taken for the oscillation to reach its maximum amplitude will depend on the magnitude of the initiating impulse, which, with no signal present, is the thermal agitation, etc.—a random factor. Since the amplitude of the thermal agitation impulses at successive sensitive phases will not be the same, the area enclosed by successive envelopes will vary, and since the audio signal is obtained from the rectified output of these pulse envelopes, there will be a characteristic hiss present in the output. Should, however, a modulated signal be present between the instants t_2 and t_3 (the signal being greater than the thermal agitation impulses), the signal then becomes the initiating impulse and the oscillation builds up earlier. The shaded area at B (Fig. 2A) represents the increase of area caused by the application of a signal. The time to reach full amplitude is proportional to the amplitude of the signal, hence the shaded area will vary with the modulation of the received signal, and the rectified pulse output will reproduce the modulation. A c.w. signal will produce a "hole" in the mush, since the amplitude of the initiating pulse at each successive sensitive phase is the same, and consequently the area of each successive pulse envelope will be the same.

Suppose now that speech modulation is applied to such a quenched oscillator. Not only will the maximum amplitude of successive pulses be altered, but the pulses will build up earlier or later, according to the modulating voltage. Now suppose that two similar sets, A and B (Fig. 2B), are adjusted so that the beginning of the pulse from set B arrives at the sensitive phase of set A. Then the modulation of set B, producing a change of time of the start of the pulse from set B, will have the same effect as a change in amplitude in a normal amplitude-modulated transmitter. Thus, since the pulse from set A also arrives at a sensitive phase of set B, duplex telephony can be accomplished provided that:—

- (1) The operating frequency of both sets is the same.
- (2) The quench frequencies are the same.
- (3) The quench oscillators are maintained at a constant phase difference.

It will be seen that the two quench oscillators will tend to lock at a constant phase difference. If the quench frequency of one set increases slightly, the radiated pulse will reach the other set earlier; thus the initiating impulse of the receiving set will be greater, causing the oscillation in that set to build up sooner, i.e. the quench oscillators will tend to "pull in" provided that the strength of the received pulses is sufficient to cause a substantial reduction of background hiss.

Modulation may be effected either directly, on the radio-frequency oscillator, or indirectly by modulating the quench oscillator. This latter method is preferable, as no audio voltages appear in the anode circuit of the radio-frequency oscillator during transmission, and hence sets employing modulated quench oscillator are remarkably free from "side-tone." Some "side-tone" may result due to pulses radiated from the distant station A, as the reception at A of a modulated pulse from set B will cause a displacement of the next pulse radiated from A. This is equivalent to a re-radiation of the transmission of set B, consequently there will be "side-tone" due to the re-transmission of the outgoing speech.

Before considering practical circuits, it should be pointed out that all such systems of duplex telephony

require a wide band of frequencies, and are only applicable to frequencies of the order of 112 Mc/s. and above, where the problems of mutual interference are negligible or absent.

Practical Circuits

Some practical circuits will now be examined. Fig. 3 shows a circuit due to the Japanese experimenter Ohtaka⁽²⁾. This is a normal single valve super-regenerator with separate quench coils SR which are tunable over a range of frequencies, and variable resistances R_p , R_{q1} used for adjusting oscillation amplitudes. C_{sr} is the synchronising condenser. Grid modulation is employed, and, as audio voltages appear in the anode circuit, the set is liable to "side-

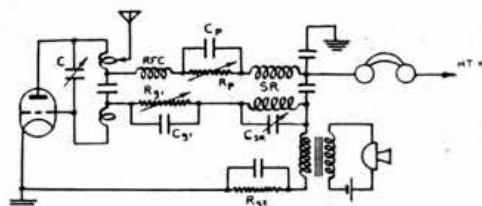


Fig. 3.

Single valve super-regenerative circuit using separate quench coils tunable over a range of frequencies.

tone." In operation, the carrier is tuned by C and an adjustment of C_{sr} at one set is made to synchronise the quench frequencies, a point being found between beats where the hiss disappears. R_p and R_{q1} are adjusted for optimum communication, and may also be used for synchronising as they have an effect on the quench frequency. The effective range claimed for a pair of these sets (over flat ground) is only one kilometre, using dry batteries and a type 30 valve as oscillator, but results are stated to be "comparable to a city telephone."

Ohtaka also gives particulars of two valve modulated-quench sets, but a better example is that due to Lewis and Milner⁽³⁾, shown in Fig. 4. This circuit is practically self-explanatory. V_1 is the high-frequency oscillator and V_2 the grid-modulated quench valve. Modulated quenching oscillations are fed to the grid of the high-frequency oscillator through a condenser. Tuning is effected by means of C_1 , and synchronising by means of C_2 , in a similar manner to the adjustments of the circuit of Fig. 3. Quench amplitude is made adjustable by inserting a variable resistance in the H.T. supply to the quench oscillator. The range of this set is about 1,000 yards over flat ground, but 25 miles has been covered with satisfactory locking of the quench oscillators, by choosing favourable loca-

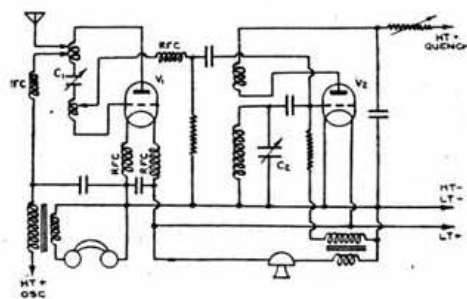


Fig. 4.

Two-valve modulated quench circuit.

tions for the sets. The frequency used was 100 Mc/s., the oscillator being a small power triode of the 2-volt battery class. The absence of "side-tone" is such that a loudspeaker may be used in close proximity to the microphone for normal duplex work, and an audio amplifier may be added without producing feedback howl.

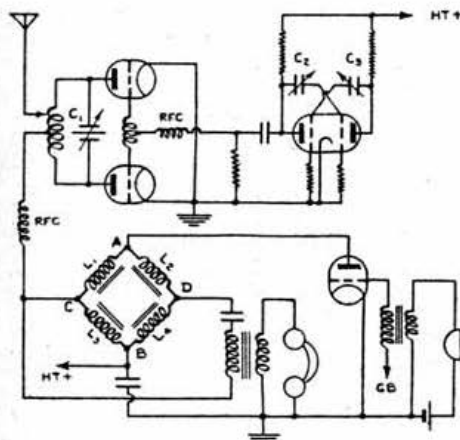


Fig. 5.

Circuit suggested by the author using "square law" quench voltages from a multi-vibrator.

Use of Multi-Vibrator

Fig. 5 shows a scheme proposed by the author, using "square-wave" quench voltages from a multi-vibrator in order to increase the locking properties of the quench oscillators. This introduces complications, as either the multi-vibrator grid-leaks or coupling condensers will require to be ganged in order to make the multi-vibrator tunable over a range of frequencies. These difficulties should not, however, prove insurmountable. In the Fig. 5, C_2 , C_3 , are shown ganged and a twin-triode is used to reduce the number of valves, as all sets of this type are essentially portable. Modulation of the multi-vibrator is likely to prove unsatisfactory, so the push-pull oscillator is anode modulated, and in order to prevent excessive "side-tone," the modulation is applied through an impedance bridge consisting of four chokes, L_1 , L_2 , L_3 , L_4 . L_3 is equivalent to the choke employed in normal anode modulation, and as the audio potential difference between points C and D does not materially change during modulation, little or no audio appears in the headphones during transmission. Incoming signals produce an audio voltage across L_2 , causing a difference of potential between points C and D across which the headphones are connected. Duplex communication may thus be carried out.

It should be emphasised that this scheme has not been given a practical try-out, and is included only to indicate a line of experiment. It would possibly have to undergo a considerable amount of alteration before a satisfactory duplex system is evolved.

Any of the systems described will provide for the reception of ordinary amplitude modulated carriers, but the transmissions will be unintelligible unless the quench frequency of the receiver is synchronised with that of the transmitter. The sets can, of course, be adapted for ordinary "transceiver" simplex operation by including a switch to cut out the quench oscillator, or to short out the quench coil in the case of the self-quenched sets.

The first scheme outlined, that of modulating the

local oscillator of a superheterodyne, produces a normal amplitude modulated carrier, and may be applied in the lower frequency bands for fixed-frequency operation with crystals in the local oscillators. With variable frequency oscillators, off-frequency transmission may result, even with a very low intermediate frequency, as there is no means of differentiating between signal and image except by the oscillator dial reading.

The author would be interested to receive suggestions or improvements regarding any of the schemes discussed, some of which it is hoped, will form a basis for post-war investigation.

References

- (1) L. S. Palmer; *Wireless Principles and Practice*.
- (2) *Nippon Electrical Communication Engineering*, December, 1936.
- (3) "The Wireless Engineer," September, 1936.
- (4) Marconi Co. British Patent 388,213. (1933).

Mr. L. W. Smith, 2FSI, author of the article entitled "Direct Reading Capacity Bridge," published in our last issue, points out that the values of the resistances, as well as the condensers are inter-dependent.

Silent Key

A TRIBUTE TO REG NEALE, G6NZ

Reg Neale has gone. It is hard to believe that we shall never again see his smiling face or hear his merry laugh. Reg endeared himself to all who met him. He was one of the Society's great enthusiasts—a born ham, with ham ideas and aspirations.

Licensed way back in the early '20's he had been a member since 1924. His shack at Farnborough was world famous, for in the course of his duties at R.A.E., he had met and entertained amateurs of many nations. He was a main-stay at pre-war field days in his District and his exploits were legion.

War conditions alone prevent mention being made of his recent activities, but no harm will be done by recording the fact that he was a key pin in the development of certain important V.H.F. gear used by the Services. Many were the occasions when, after an all night session at an R.A.F. station, he called in at Headquarters early in the morning for a chat and the inevitable cup of tea. What yarns he could have told us after the war, if he had been spared.

Reg died suddenly in his garden on August 19, but he will not be forgotten. The Society was in his mind right to the end, for only a few minutes before his death he had been discussing with Ernie Prior, G3SH, plans for a big R.S.B.G. meeting. His enthusiasm was infectious for wherever he went he stressed the importance of building up a strong Society. How often did his name appear as sponsor on an application for membership? Present at nearly all pre-war Conventions and at as many local meetings as his business duties permitted, Reg could always be depended upon for a good ham story.

The news of his death will come as a shock to hundreds of members at home and abroad. R.A.F. Fitting parties in particular will mourn his passing, even as will all those who were daily in contact with him. His loss to District 7 is a severe blow for on every possible occasion he offered his services in the organisation of local activities.

In spite of his many official duties he found time to assist first one and then another A.T.C. Squadron. Always interested in youth organisations he was for years closely associated with the Farnborough and 10th Finley Scout Troops.

His untimely death at the early age of 40 has left a gap in our ranks which cannot be filled. There will never be another Reg Neale. His charming personality, his obvious enthusiasm for the job of work he had been selected to perform, and his intense loyalty to the Society, will remain in our memory for all time.

The funeral took place at Aldershot Parish Church on August 24 when among the many floral tributes was a wreath from the President, Council and Headquarters Staff of the Society. The Society was represented by his very old friend, Mr. Eric Rawlings, G5RS.

To his wife, parents and other relatives we extend our deepest sympathies.

J. C.

THE ILLS THAT RECEIVERS ARE HEIR TO

By "THE WORKSHOP MAN."

WHILE many members serving in His Majesty's Forces have doubtless to act as "wet nurses" to transmitters of various types, sizes and descriptions, it is fairly certain that an even greater number are at times concerned with the receiver that will not "perk," and it is the purpose of this article to discuss a few of the troubles, common and uncommon, that have come to the writer's notice in just this connection.

Valves

One of the first things to remember is that nowadays valves are among the most reliable of components, and it is comparatively seldom that one "picks in" suddenly, and rarer still that two or more go unserviceable at the same time. Thus "a new set of valves"—that cure-all of the more unskilled or unscrupulous of pre-war service men—is most unlikely to put your failing—or failed—receiver back into service again: radio faults are seldom so easy of rectification!

In the case of a modern, selective, multi-stage superhet., a haphazard changing of valves is more likely to lead to a state of affairs requiring a complete H.F. and I.F. re-alignment rather than to the cure of the trouble. The reason for this is that although modern valves are matched to fairly small tolerances, small differences *do* exist in the self-capacity of valves of the same type and these differences may be sufficient to throw out of tune the circuits associated with them. Thus it becomes necessary when changing say, an I.F. valve, to retune the circuits both in its input and output before it can be said whether the change is an advantage or otherwise.

Another golden rule in all receiver servicing is always to make one change at a time, whether it be valves, components or adjustments, and to be sure that all the possibilities of that change are fully explored before the next change is tackled. "Panicing-around" in the internals of a complicated receiver gets you, as the W's would say, "no place," and leads to exasperation and waste of valuable time.

Improving the Overall Gain

Talking of changing valves, the following scheme, for which the writer claims no originality, may be of interest. It is rather more applicable to workshop servicing than to the ham-shack, because it necessitates at least one complete set of replacement valves for the set concerned, as well as a modulated oscillator, (which does not have to be calibrated) and an A.C. voltmeter. For getting the last ounce out of a receiver, however, it can be thoroughly recommended, and has been used many times with considerable success.

The set-up is as follows. The I.F. stages having been lined up as perfectly as possible, the modulated oscillator is adjusted to a point near to the H.F. end of the band on which the receiver is to be checked. This frequency should be that, or near to that, used for trimming adjustments. Now connect the A.C. voltmeter across the output of the receiver, setting the I.F. gain control to a point such that the meter reads about $\frac{1}{2}$ scale. A word or two of warning is required here. As will be appreciated later, A.V.C. must be out of action, so it is important that the injected signal should be of such strength that while it is above the background noise level of the receiver, overloading must not occur under any circumstances. If it does it will cause the meter readings to be misinterpreted, or make them altogether meaningless.

Having satisfied these conditions, the R.F. circuits

are aligned for greatest signal strength on the chosen frequency, as indicated by the highest reading on the meter. If the latter tends to run off-scale at any time, it should be changed to a higher range, or the I.F. gain control suitably adjusted. If overloading is present, it will be noticed that as the receiver is tuned through the test signal the meter reading first rises, and then falls somewhat as the in-tune position is reached, rising again as this is passed. The H.F. input from the modulated oscillator must be reduced to the point where there is a smooth rise in reading as the set is tuned to the oscillator, with a peak reading on the meter at the in-tune position. Having satisfied oneself that no further improvement can be made, note the reading of the meter—which is quite arbitrary of course—and change the first valve in the set for another of the same type. Once this valve has warmed up and settled down, all circuits associated with it should be retrimmed, and if the meter reading is greater than before then it is a fairly safe bet that the new valve is an improvement on the old. The improvement may only be slight, but if even a slight increase in gain in each stage can be obtained, the overall result may be well worth while.

The same procedure, followed with each stage in turn, can be used to check components as well as valves, if care be taken to make quite sure that meter readings are being interpreted correctly.

Explanations and Warnings

Several criticisms having been levelled at the author against the use of this system, a few explanations and warnings will now be given. One of the first impressions a person unfamiliar with the idea gains, is that it must take hours and hours to work through a large receiver in the manner described. This is quite untrue because if one "knows" the set, and has retrimmed it once or twice, it is surprising how quickly the job can be done after a little practice. Clearly the position of each trimmer must be known, as well as some knowledge of what it does and what effect, if any, its adjustment has upon other circuits.

The next criticism from the interested onlooker is usually to the effect that you are probably shifting the I.F. all over the place when changing valves in the I.F. stages and retrimming the various transformers. On the face of it this might be true, for you do not trouble to check the I.F. at each adjustment of the various I.F. transformers, but it must be remembered that the H.F. signal will be—it is hoped—reasonably constant, and the tuning dial will not be shifted during I.F. retrimming operations, so that there is little likelihood of the I.F. being more than a few kc/s. out. This will, and must, be corrected by a proper I.F. re-alignment after the valve-changing process has been completed.

If only a few valves can be tried, due to considerations of time, the unaccommodating attitude of "stores," or just sheer shortage of replacements, then the R.F. valves and the mixer stage should receive primary attention. This is particularly true of V.H.F. receivers, for it has been found that several valves which all show the same characteristics on the valve tester, give totally different results when tested under operating conditions, in fact one may be found which shows such a marked increase in stage gain as to make the remainder appear quite below par. Why this should be, it is not proposed to hazard a guess; members more steeped in valve lore than the author will no doubt be able to supply the answer.

Digressing from the subject of commercial receivers for a moment, it may be said that a method similar to the foregoing was used by the writer a couple of years before the war when developing a T.R.F. for 56 Mc/s. work. Such items as the correct aerial coupling, whether or not tapping the grid of the R.F. stage down its coil was an advantage, and the best form of coupling to be employed between the R.F. stage and the detector, as well as valve operating conditions generally, were all checked in this manner, and some very interesting data acquired.

Installing the Receiver

From the workshop, we will proceed to the installation of the receiver at the operating position.

If it is mains driven, naturally one of the first things to check is that the voltage adjustment on the mains transformer corresponds to the voltage of the mains. In war-time, receivers often have to be installed at the ends of long runs of more or less temporary mains wiring, and the voltage present at the place of operation may bear little relation to that stamped on the meter, if such can be found. So it is always a good precaution to measure the mains voltage and adjust the transformer tap accordingly; but here a word of warning. If serious voltage drop is occurring, it is usually due to a heavier load than normal being present on that line, and if the receiver is left running merrily on a transformer tap suitable at the time of installation, a sudden spell of warmer weather may induce the C.O. to dispense with that 2 kW. heater he has been using during the cold snap, the electric motor that you knew nothing about at the time, may have been turned off, and lo and behold, there is your receiver trying to burn the candle at both ends, and exuding the all too familiar odour of a frying mains transformer! Having been bitten in this way, on more than one occasion, the author advises frequent voltage checks on mains that show at any time a serious drop, and which have necessitated an adjustment on the mains transformer lower than that which would be employed normally. Co-operation between the operating staff and the workshop is indicated here, for the operator should have some warning that all is not well, when for example, his dial lights become unnaturally bright, or the afore mentioned odour begins to make itself smelt! A timely warning in such instances may save a valuable set from damage, a Signals office from dislocation, and a well-meaning wireless mechanic from all sorts of trouble—of which being "torn off a strip" would be the least!

It will be found in certain cases that a more or less severe shock will be experienced if contact be made between the chassis of an unearthed set and earth, or between the chassis of two unearthed receivers. This is due to there being, in certain types of set, a small condenser between one side of the primary of the mains transformer and the set chassis. Reversing the mains connections does not always effect a cure, and it is far better *always* to make a point of earthing the chassis of all receivers wherever they are installed.

A further tip worth remembering when installing a receiver is to retrim the first R.F. tuned circuit on each frequency band after connecting the set to the aerial with which it will be used. It will be found that different aerials throw varying loads upon the tuned circuits to which they are connected, more or less detuning the latter, and this simple adjustment, which involves no risk of upsetting any precision adjustments, will go a long way towards improving the performance of the receiver.

This adjustment should be made at the usual trimming frequency, near to the H.F. end of each band, and background noise may be used in place of a signal.

Common Receiver Troubles—the R.F. Section

Coming now to specific faults. A receiver may cut out at a particular frequency, either suddenly, or with a preliminary decrease in signal strength, and it is desired to know the source of the trouble. The first component to fall under suspicion should be the tuning condenser associated with the R.F. oscillator. This should be inspected to ascertain whether it is short circuiting at the position where signals disappear. In this case the same fault will appear at the same point on the condenser on each frequency range covered by the receiver. If the condenser seems to be normal, the R.F. oscillator valve is next suspect, and it should be changed for another of the same type. This change will almost certainly involve recalibrating the receiver, particularly if it covers the V.H.F.'s. The failure of an oscillator valve is mostly due to failing emission—a valve suffering in this respect can sometimes be kept working for a time by raising the heater or anode voltage, or both. In cases of emergency, where a replacement valve is not to hand and the set must be kept working at all costs, it is worth trying a lower adjustment of the primary tap on the mains transformer, thus raising the H.T. and L.T. supplied to the whole receiver. Naturally this will involve overrunning the valves and the transformer to a certain extent, but both should stand up to a reasonable amount of this treatment, if care be taken to ensure adequate ventilation by opening the lid of the receiver, or removing it completely from its case, providing this is possible without undue upset to the operator. The H.T. supplied to the receiver can often be raised quite considerably by removing the output valve or valves, if these are not in use when headphones are employed for reception. The poor regulation of the average receiver mains transformer under a decreased load usually causes the H.T. to rise quite considerably.

In the case of receivers in which the R.F. oscillator and B.F.O. valves are of the same type, it is always worth while changing them over, for it will often be found that although the emission is insufficient to sustain oscillations at the signal frequency, the valve will still operate at the usually much lower I.F.

R.F. Switching

Although the rotary wafer switches now frequently employed for coil changing are much more reliable than certain earlier types, they do sometimes give trouble. This may manifest itself as general noisiness, together with weak signals, signals going on and off as the range switch is touched, or even a completely dead set. The latter will, in all probability, be traced to the coil switch in the R.F. oscillator circuit failing to make contact on the band in question due to dirty wipers. Most switching troubles will be found to yield at once to an application of carbon tetrachloride brushed all over the contacts with a small stiff brush, the switch being worked backwards and forwards at the same time.

It is a good plan to make a point of cleaning all switch contacts in the manner described at fairly frequent intervals, rather than wait for a complete breakdown to occur. It is surprising what a contribution can thus be made to the general quietness in background and signal-noise ratio in a receiver.

If cleaning the switches as described fails to produce a cure, each switch in turn should be examined for possible bent contact springs. This does not often occur, but when it does, considerable care, patience and manual dexterity with a pair of tweezers are required to persuade the erring spring to resume its former position.

Recently the writer had a V.H.F. set (a large and complicated superhet), brought into the workshop

with a rather puzzling fault. The type was well-known to him as being particularly docile, although possessed of very considerable gain, but this specimen was exhibiting hand-capacity effects to the Nth degree. Opening and shutting the metal lid, touching the aerial terminal, or putting the hand near any part of the earthed metal chassis caused the set to tune itself over quite a number of kc/s. on each of its three frequency ranges. On questioning the operator, it was learned that these somewhat startling symptoms had developed all of a sudden, but on further interrogation he admitted that the background noise had been above the average for a couple of days or so. This made the frequency range switch suspect, and it was found that dirt had accumulated between the contact plate and spring on the wafer switch in the R.F. amplifier grid circuit, thus putting the grid "up in the air." The application of carbon tetrachloride not only cured the fault, but produced a marked decrease in the background noise of the set.

Before leaving the R.F. section, mention will be made of another receiver, this time belonging to a fellow ham, which although working fairly satisfactorily on its higher frequency ranges, was practically useless on the broadcast band, and on the band next above. Signals came in fairly normally at the H.F. ends of both bands, but petered out around mid-scale, and at the L.F. end of the two bands mentioned, not even background noise could be heard. Now this sounded like a failing R.F. oscillator, but as no instruments of any sort were available, and no replacement valves were to hand, this was difficult to check. And again, R.F. oscillators usually "pack up" at the H.F. end of a band, not the L.F. After a good deal of poking around inside, it was ascertained by touching the grid of the valve, that the R.F. oscillator was still "doing its stuff," even when the L.F. end "blackout" occurred, but it was noticed that, contrary to their usual state of adjustment, the padding condensers for the two bands in trouble were both screwed right out, i.e. at minimum capacity. Set manufacturers are not in the habit of supplying padding condensers so large that they have to be set at absolute minimum to give correct tracking, so it was thought worth while to experiment on the broadcast band and see what would happen if the appropriate padder was increased in capacity. Immediate improvement was the result, and with the help of a borrowed broadcast receiver the faulty set was trimmed and padded back to a state of considerably greater activity than it had hitherto exhibited. How the two padders had come to be fully screwed out in the first place was not discovered, as our friend strenuously denied all knowledge of the affair!

Other Faults

Some receivers are fitted with one of the many forms of noise limiters or silencers, consisting in most cases of various circuits associated with a diode rectifier valve which, when the noise caused, for instance, by the ignition system on a car interferes with reception, becomes conductive and prevents the interfering signal rising above that of the desired signal. In the ordinary way, these circuits cause no trouble at all, and in noisy situations the operator almost invariably puts the noise limiter into circuit and forgets all about it. If a general falling off of signals is reported, it is as well to suspect this part of the set, as a failing diode valve has been found to produce this effect. Switching off the noise silencer made no difference, which fact put us right off the track, until some bright person removed the double-diode valve itself, when signals returned to normal. In this case not only was the valve itself faulty, but the switch associated with it had stuck in the "on" position!

It is hoped that the above remarks will prove of interest and perhaps of some assistance to those hams and others engaged at present in servicing receivers. Finally, the writer would welcome any suggestions and experiences that members may care to put forward on this subject.

Editorial Note.—Communications to "The Workshop Man" should be addressed to him via the Society.

OUR FRONT COVER

The illustration shows only a very small selection (21 in fact) of the wide range of RAYMART Insulators and Ceramic goods available. Other Raymart specialities for short-wave work include Micro-Variable Condensers, Precision Dials and Knobs, the Raymart "Speed" and G.P.O. type Keys, etc., etc.

Government departments, Manufacturers, Servicemen and members of the R.S.G.B., are invited to send their enquiries to RAYMART LTD., 48 Holloway Head, Birmingham, I. Telephone: Midland 3254.

Letters to the Editor

Disposal of Government Surplus

DEAR SIR,—I have read with great interest the letter from G8ON and your editorial and feel that amateur enthusiasm has caused you to miss a vital point in connection with the question of disposal of Government surplus goods.

When hostilities cease we shall be faced with a problem as grave as those we are facing to-day, namely the necessity of keeping the wheels of industry revolving. Thousands of men and women will be leaving their war tasks and will be seeking a re-entry into industry. Before the majority of amateurs can hope to take up their old hobby once again they must first solve the problem of post-war living.

For most of us, income is coupled with employment, and industry can only absorb labour if there is a demand for the products being manufactured; the demand should be there because of compulsory saving and restricted purchasing now in force.

Vast quantities of miscellaneous articles are now being manufactured for the Government to prosecute this war, one day these will become surplus and, if allowed to reach the public, whilst causing individual benefit, will kill all demand for new goods which will bring in its wake, slump, unemployment and misery.

Drastic and revolutionary decisions and sacrifices are being made to win this war and the same must happen if we are to win the peace and enjoy prosperity.

One of these decisions should be the total destruction of all surplus goods in their finished state, the raw materials only being sold to manufacturers for remaking into finished products.

I recall the thrill of junk-hunting after the last war, but I hope when the time comes to open up my station again I shall get as much satisfaction out of a new component with the knowledge that my small purchase is helping to provide work for someone whose prosperity in turn will be felt by all.

Yours faithfully,

H. L. OVERTON (G4CW).

DEAR SIR,—I am one of the many members, who, like G8ON, are very concerned about the disposal of Government surplus apparatus after the war, and who would like to associate themselves with him in his suggestion that the Society should adopt the one definite means of assuring that amateurs get a "square deal."

Despite the undesirable precedent that this step would establish, it would surely be in a good cause, and in the true interests of Amateur Radio. Naturally, only members—bona fide amateurs—would be allowed to participate in the scheme, and the conscience of the Society might be salved by regarding purchases as made direct from the Government through the medium of the Society—the latter possibly swelling their funds by charging a commission! Moreover, if the Society were completely adamant in its dissociation from all business transactions, it would not be justified in its policy of offering for sale those ever-useful items such as Handbooks, issued by the A.R.R.L., etc.

I hope you will give the matter a second thought. I am confident that you would receive the most enthusiastic support.

Yours faithfully,

A. J. H. BURTON (2CXB).

VISUAL MORSE and SEMAPHORE SIGNALLING

By B. W. F. MAINPRISE, B.Sc. (Eng.), Dip. Elect. Eng. (G5MP).*

THE writer recently contributed to this Journal a series of three articles entitled "Morse Instruction" (March, May and June). Since then he has received enquiries for information on other forms of signalling including visual Morse, Semaphore, and International Flag.

Apart from the fact that knowledge of these subjects is compulsory for many certificates of proficiency (e.g. peace-time certificates in air and sea navigation), every wireless operator should be able to carry out at least one alternative method of signalling. In war, these qualifications are invaluable, as for short distance working, such as from one hill-side to another, or from the ground to a plane, communication can be effected without breaking wireless silence. Reports from a forward position can be transmitted back with a lamp, carefully directed and shielded, with little chance of interception by the opposing forces, in contrast to the great risk of giving away patrol positions by the use of a radio transmitter.

The Morse Lamp

Of the three methods of visual signalling, lamp Morse is the most difficult. The rate of working never approaches that attained when reading by ear, presumably due to the persistence of vision of the human eye, which is the salvation of the cinematograph operator, but the despair of the lamp signaller. Speeds of 6 or 8 w.p.m. are good. The main difficulty confronting beginners is that a source of practice signals is normally unobtainable unless the help of a colleague, or better still, of an instructor, is available. For those in very isolated cases, the following two methods of learning are suggested, though the writer has not been able to put them to the test.

In the first method a typewriter ribbon is thoroughly dried. Dots and dashes are then marked along its length, using yellow paint to simulate the lamp flashes. The ribbon is then drawn past a narrow viewing slot cut in a piece of dark card, and a very fair imitation of actual signals is produced. The winding system of an actual typewriter can conveniently be used, the card with the viewing slot being arranged to clip in place of the machine's inking slot, which guides the writing ribbon close to the surface of the paper. The letters represented should be listed in a note-book for easy checking of one's copy, while it is also helpful to mark the ribbon every three feet or so, to facilitate finding the place, when starting to read near the middle of the length of ribbon.

The second method suggested employs the principle of a childish device. Most of us remember the little booklets, on each page of which appears a comic character in a slightly different position. When the pages are allowed to flick over rapidly under one's thumb, the comic character comes to life, and moves fairly naturally, much as in an early film. We can make use of exactly the same principle to help us learn visual Morse, by taking a similar booklet, marking a dot on several pages in succession, leaving the next few pages blank, marking a dash on the next pages and so on; then when the pages are rapidly allowed to turn over, a series of dots and dashes will pass before the eye.

Neither of these methods can of course compare with the assistance given by a colleague, or by an instructor, for the scope is plainly limited, but they are put forward for the benefit of any who may find

themselves in exceptional isolation, and yet be eager to attain the requisite standard of reading.

When transmitting, a very deliberate finger action on the trigger of the Aldis lamp or other practice source is essential. The sending of the letter V for example, as a flicker and a long dash will generally be quite unreadable. The writer finds that he invariably reads lamp Morse by mentally converting the flashes into dits and dahs, and recognising these as the appropriate letters, in view of the much greater use of aural Morse.

Semaphore

This is very easy to learn, possibly because the letters are arranged in definite groups. Thus, A to G are all sent with one arm only, H to M (omitting J for some obscure reason) are all sent with one arm in a fixed position. Consequently, one sees that a given letter signalled falls in a group of perhaps only eight possibilities and the selection of the appropriate one is facilitated. In this way, there is a similarity with the method suggested by the writer of learning Morse letters by dividing them into groups according to the number of units in their formation. Practice semaphore cards are available from various firms specialising in navigational requirements, the ones used by the writer being obtained from *Messrs. Brown & Ferguson Ltd.*, 52-58 Darnley Street, Glasgow. Another method of practising the reading of semaphore is to write down in a note-book a series of letters in the form of semaphore arms. The action will assist in memorising the positions of the arms for each letter, while reading through the letters a day or so later will indicate how quickly one can identify the letters, and which form the greatest stumbling blocks. A number of pages will soon be covered by these hieroglyphics, and will provide excellent practice.

International Flag

This system of signalling is not hard to master. When learning the flags, the beginner should draw them in pen and ink, indicating the colours of the various portions. It is not enough to know that U consists of two red and two white squares: the relative positions of these must be known with certainty, otherwise, in a poor light, or at an acute angle the flag might be mis-read as L, which also consists of two light and two dark squares. The positions of the squares result in an important distinguishing guide.

Practice cards, showing the flags in their correct colours, are obtainable from various firms, but one modification is suggested, which incidentally is also slightly cheaper. *Messrs. Brown & Ferguson* publish a wall card, (price 7d. post free) showing the coloured flags, mounted on cardboard nearly $\frac{1}{2}$ in. thick. This can be cut with a sharp knife into rectangles measuring 1 in. x $\frac{3}{4}$ in. each containing a flag. These will be found first rate for shuffling about on a board to make practice hoists, their size rendering them more realistic than the usual cards.

Conclusion

An operator who is able to read Morse by ear will have a certain amount of difficulty in mastering visual Morse, but should find Semaphore and International Flag Signalling very simple in comparison. Knowledge of these alternative methods of signalling will be of inestimable value to him, for when occasion arises he will be able to take complete charge of communications by all possible means, whether on land, at sea, or in the air.

* 43 Brunswick Hill, Reading.

KHAKI AND BLUE

● The "SC's" are at it again! Remember the paragraph in the March issue when we referred to the fact that **G5SC** was a Major, **G6SC** a Captain and **G8SC** a Lieutenant in the R.A.O.C.? We are happy to report that the trio have advanced in steady formation, thus preserving the *status quo*. Major Candow is now a Lt.-Colonel, Captain Chapple is now a Major, and Lt. Collins now sports three stars. We again recommend the R.A.O.C. to any other "SC"!

● A.C.2 Eric Watson, **BERS499**, who was H.Q. Secretary of the New Zealand DX Radio Association, will be pleased to hear from members of that Association with a view to arranging a reunion. Letters should be addressed to him c/o New Zealand House, 415 Strand, London, W.C.2, and his Service number (NZ 414089) quoted.

● Sig. J. D. Baker, **3766**, now with 103 S.W.S., M.E.F. sends greetings by airgraph to all old friends, and especially to Messrs. Milne, Firman, Harrison, Buck, Watkins, Appleby, Langley and Hoare.

● F./O. Nourse, **VK2DQ**, also in the M.E. reports by airgraph that **SU1AF** is his C/O. **G3GQ** is a Corporal in his squadron and **VK2HQ** is close at hand. Dud would like to hear from old friends. Letters via H.Q. please.

● Apropos the paragraph published in our June issue, Mr. G. A. Blow, father of A.C.1 D. E. Blow, **G3TL**, advises us that he has received unofficial information that his son was on board a ship that was attacked by the enemy. His present whereabouts are unknown. Can any member supply further news?

● Old friends of P./O. Norman Davis, **G6TV**, will be interested to hear that he is at an R.A.F. Station in Worcestershire and that his chief is Sq./Ldr. C. A. Jamblin, **G6BT**, one-time R.S.G.B. QSL Manager. It was **G6BT** who sent 'TV his first W QSL card many years ago.

● From Mrs. Hubbard, wife of "Oxo," **G5OX**, we learn that her husband is now serving as a Ft./Lt. with the R.A.F. in VU. Letters may be addressed to him c/o Lloyds Bank, Hornby Road, Bombay. Mrs. Hubbard is a driver in the W.A.A.F. and stationed somewhere in Norfolk.

● L.A.C. Desmond Alimundo, **G4HK**, serving with an R.A.F. squadron in the M.E. enquires for news of **G6KS** and **G8O**. Letters can be addressed to him c/o 6 Devonshire Road, Heaton Moor, Nr. Stockport.

● L.A.C. Emlyn Powell, known to many members as **GW3QB**, has been in the M.E. for nearly two years. He is with 108 M.U. and although no ham contacts have yet been established, he is full of hope. He recently visited Palestine on leave.

● Radio Officer Ronald Strickland, **2CBQ**, back from a further trip to the U.S. reports having been almost overwhelmed by the unbounded hospitality of the W5's who nearly wore him away to a shadow.

● Mrs. Wingfield informs us that she has received an airgraph from her husband, Fred Wingfield, **G3CX**, informing her that he is now in hospital somewhere in South Africa. No hint is given as to why he is in dock.

● In a letter to H.Q. dated June 12 Fred bemoaned the absence of tidings from **G2AO** and other Sussex friends. He also seeks news of Julian Todd, **G2KV**. Fred mentions that he has met Cpl. Day, **2FQZ**, A.C.2 Dunkerton, **G3NX** and Cpl. Lawden **G3SS**, all of whom are with No.7 W/T F.P. M.E.F. **G8BA** is with the same unit but the only contact has been by QSL.

● From India comes news of Ft./Lt. Noel Simmons, **G3AD**, who reports that he has been in touch with old timer Cecil Goyder and many other hams. He will be pleased to hear from his friends who should write c/o 12 Aurangzeb Road, New Delhi.

● Cpl. J. Millie, **G8MQ**, one of the "all party as was" is now serving in Carmarthenshire, where he hopes to meet a few members. He can be reached by telephone on Carmarthen 672 at most times of the day.

● From Officers' Mess, R.A.F. North Front, Gibraltar, comes news of P./O. Jack Morris, **2DRR**. He has been abroad for about two months during which time he has made his number with **G3IT**, **5NM**, **6ZY**, **8AX**, **2FZU** and **ZL3FX**, and a few others.

● Sig. G. Openshaw, **2BTO**, R. Sigs., who is now at "The Country Farmyard" is anxious to hear from **G6QF** and other old friends. Letters via H.Q.

● We are informed that our pre-war Liverpool T.R., C.Q.M.S. Harry Caunce, **G6XS**, is now serving abroad with R. Sigs. His address is not known, but letters will be redirected if sent c/o 24 Vanbrugh Road, Anfield, Liverpool 4. In a cable to his mother, Harry reported fit and well.

● Writing under date of July 27 from The Holy Land, but giving no address for a reply, "Tieh" Emary, **G5GH**, asked that his 73 be passed on to all old friends. Last time we heard he was a Captain, but knowing Tieh he may by now be wearing crossed swords or tourists' clothes! He has met many interesting people in his travels—he always does! Although still a bachelor, rumour hath it that "our Betty" now wears an engagement ring.

● By air mail from Haifa, Palestine, comes further news of P./O. Ted Laker, **G6LK**. He has taken many interesting photographs during his travels which he promises to display when he gives the first of a series of lectures after the war on "The DX I have visited." Ted received a mild shock recently when he read

in **G6GH**'s copy of the December *Bull* that he had been Mentioned in Despatches. He met Geoff near Suz.

● A.C.2 Pat Whittle asks us to point out that he is the present holder of the call **2AOW**. In our last issue this call was credited to 2nd/Lt. Wilson who, we was probably an earlier holder. Pat who is now at No. 3 S.S. is anxious to recommence Society meetings at the School. Members interested in the suggestion are asked to get in touch with him in Hut X26.

● "Early Birds" and other old friends of Sgt. Ken Peattie, **2FQG**, will be interested to hear that he is now resident at 2541 Post Street, Jacksonville, Florida, at which address he will welcome visits and letters.

● From Cpl. Rowell, **G5RL**, comes the good news that Pat Fraser, **G8ST**, is reported "from official sources" as being safe. Pat was in Malaya before the fall of Singapore and much anxiety has been felt for his safety. **G5RL**, who is at a R.A.F. Station in Berks with **4OU**, **6BM** and **2FQR**, reports holding a miniature 56 Mc/s field day! He wishes to be remembered to old friends in District 8.

● Ldg./Radio Mech. Rowland Beardow, **G3FT**, writing from Dorsetshire, points out that Mr. Holdaway, **2CWF**, is Hon. Treasurer of the Romford and District A.R.S., and not a member of the Ilford Society as was stated in our last issue. He mentions that all R.N. W/T Mechanics are now classified as Radio Mechanics. Incidentally, he has just been awarded a good conduct badge for three years undetected crime! Nice work.

● Cpl. Tom Platt, **G2GA**, pre-war T.R. for Bury, wishes to be remembered to all old friends and especially to Evan Jones (**G4T**), who lived in Deane Church Lane, Bolton, before the war.

● Cpl. Peterson, **G6VG**, of South Shields, who is serving with the R.A.F. in the M.E., recently received a batch of **BULLS** from home. In one issue he read that **G6ZT** was enquiring for news of **G6PB**, also of that town. His surprise can be imagined when **G6PB** suddenly turned up, to give him his first QSO with a G ham since arriving in the M.E. **6PB** is a L.A.C. W./Mech. at a station near Alex, where we understand he is showing great interest in the station band! **6VG** asks that his 73 be conveyed to all old friends.

News from Gib.

We say "good-bye and the best of luck" to several members who have been posted home, among them **G8IH**, **BERS494** and **BRS4851**.

GSAX recently had the misfortune to receive a bad R.F. burn from one of the naval transmitters, but when last seen in hospital was smiling broadly and hoped to be out soon. (We have now heard direct from **SAX** who is back on duty.—Ed.) 4099 has just completed a very interesting trip through Spain, but did not have the luck to meet any EA hams en route!

G5NM is now the proud possessor of a very fine Dumont Oscilloscope, which he demonstrated at the August meeting of the Gib. A.R.S., held at **G6ZY**'s QRA. At the conclusion of the meeting **5NM** regretfully informed the members present that owing to pressure of work he was unable to continue his duties of

CHESHIRE MEETING

For the special benefit of the large number of members and other amateurs serving in the North West and in North Wales, arrangements have been made to hold a

PROVINCIAL DISTRICT MEETING

at
THE QUEEN'S HOTEL, CHESTER
on
SUNDAY, SEPTEMBER 20th, 1942

PROGRAMME

Assemble 12 noon Meeting 2.30 p.m.
Lunch 1.30 p.m. Tea 4.30 p.m.

Inclusive charge 4/6. Reservations to Mr. H. W. Stacey (**G6CX**), "Sandleas," Eddisbury Road, West Kirby, Cheshire, not later than September 19.

secretary-treasurer. Sgt. Needham, R. Signals (4099), was elected to this post, and we can all feel confident that he will carry on the good work started by G5NM.

2BUJ (to whom we offer congrats. on his stripe) is engaged on the construction of a T.P.T.G. transmitter which he has permission to try out on an Army frequency. G8AX, G2ZY, and 4099 have already tried transmitters of their own, so it's becoming quite fashionable! (Maybe it's a good thing G6ZY is Army W/T officer, and still likes "mucking about with new rigs!")

EA3DL who is an Englishman and now an R.A.F. Pilot Officer, is on the ROL and we hope to see him at future meetings.

G6ZY.

MEMBERS ON ACTIVE SERVICE

Thirty-sixth List

WE publish below our thirty-sixth list of members on Active Service. Additional details and corrections should be advised to Headquarters as early as possible. The present list contains information received up to August 31, 1942.

Rank and Name	Regiment or Branch of Service	Pre-war Call or B.R.S.
Cpl. F. G. Alcock	R.A.F. ..	5400
L.A.C. L. Allweis	" ..	5409
L./Cpl. J. Atkinson	R.E. ..	5381
Capt. F. S. Bishop	R.A.O.C. ..	5380
L.A.C. G. Blunn	R.A.F. ..	5295
Cpl. F. H. Brailsford	R.A.O.C. ..	5302
L.A.C. R. Brearley	R.A.F. ..	5401
Sgt. L. J. Le Breton	R.A. ..	5360
Lieut. T. O. Cadell	R. Sigs. ..	VU2EB
Sgt. W. Cameron	R.A.O.C. ..	5399
Gnr. E. E. G. Chapman	R.A. ..	5404
L.A.C. S. Chapman	R.A.F. ..	5291
L.A.C. J. D. Cole	" ..	4361
Cpl. E. A. Collins	" ..	5357
Sig. A. E. Cornish	R. Sigs. ..	2DOW
Sig. W. G. L. Creaton	" ..	4129
A.C.1 R. F. Crockford	R.A.F. ..	2BQW
Sgt. E. L. Davy	R.A.O.C. ..	5298
A.C.2 F. J. Dawes	R.A.F. ..	G8UI
L.A.C. A. Deely	" ..	5355
A.C.2 J. E. Dods	" ..	4341
Pte. P. R. G. Dixon	R.A.O.C. ..	5377
P/O. G. G. Douglas	R.A.F. ..	4406
Cpl. L. Fisher	R.A.O.C. ..	5348
Cpl. H. A. Flowerday	R.A.F. ..	5376
Gnr. C. N. Freeman	R.A. ..	5375
A. G. French	R.A.F. ..	G5PN
Pte. J. Gillespie	R.A.O.C. ..	5408
A.C.1 A. W. Green	R.A.F. ..	5345
Sgt. R. H. Greenwood	R.A.O.C. ..	5386
Sig. W. E. Grimes	R. Sigs. ..	5235
Cpl. S. Hardaker	R.A.F. ..	5402
2nd Lieut. W. F. D. Hawkins	R. Sigs. ..	4372
P/O. I. R. Haynes	R.A.F. ..	4506
F/O. D. Hendry	" ..	3840
Sig. J. Hunter	R. Sigs. ..	5414
F/O. C. F. Isherwood	R.A.F. ..	4389
A.C.1 R. Jackson	" ..	5391
Cpl. R. L. Kittle	" ..	5371
Pte. R. D. J. Knappe	R.A.O.C. ..	5384
Sig. L. G. Lacey	R. Sigs. ..	2AMY
Cpl. J. R. Lane	R.A.F. ..	2CJL
Pte. F. Lawton	R.A.O.C. ..	5413
A.C.2 J. C. Leigh	R.A.F. ..	5338
A.C.1 A. Leiper	" ..	4379
Sig. L. W. Lewis	R. Sigs. ..	G8ML
Cpl. J. T. Lowe	R.A.F. ..	5337
A.C.1 T. H. Marsh	" ..	5336
Sgt. C. D. Metcalfe	" ..	2CFV
Sig. E. T. Metherell	R. Sigs. ..	5334
L./Cpl. D. G. H. Morris	R.A.O.C. ..	5333
Capt. J. G. McIntosh	Rajputana Rifles	VU2LJ
A.C.2 A. Newson	R.A.F. ..	5290
A.C.2 R. A. Norman	" ..	5410
A.C.2 P. D. Norwood	" ..	4985
Cpl. L. J. Osborn	" ..	5297
Sig. G. Openshaw	R. Sigs. ..	2BYO
F/O. N. L. Parlett	R.A.F. ..	5370
Cpl. C. J. Porter	" ..	5330
Cpl. W. M. Potts	" ..	4365
A.C.2 W. B. Probert	" ..	5328
A.C.1 A. E. Pyrah	" ..	5327
Sig. J. R. Raby	R. Sigs. ..	G8RF
A.C.1 J. C. Raettig	R.A.F. ..	5326
Sgt. K. Rantzau	R. Sigs. ..	4378
Sig. B. Ratcliffe	" ..	4795
A.C.1 M. Robinson	R.A.F. ..	5293
Ldg./Radio/Mech. W. B. Rock	R.N. ..	5368
Sgt. J. W. Roe	R. Sigs. ..	5302
Ldg./Tel. L. A. Rogers	R.N. ..	5323
Ldg./Radio/Mech. E. H. Rudolph	" ..	5299
Pte. J. E. Rusby	R.A.O.C. ..	5322
Ord. Seaman. C. C. Rush	R.N. ..	3398

Rank and Name	Regiment or Branch of Service	Pre-war Call or B.R.S.
Cpl. J. Townsend	R.A.F. ..	5312
2nd Lieut. R. D. P. Trifus	R.E.M.E. ..	2BDC
F./Sgt. E. W. Scales	R.A.F. ..	5321
Sgt. J. G. Scott	" ..	5320
Radio/Mech. M. Scott	F.A.A. ..	5289
Tel. J. J. Shaw	R.N. ..	5319
Pte. W. T. Shelton	R.A.O.C. ..	5301
Sgt. T. T. Sherry	" ..	5292
Sig. E. G. Small	R. Sigs. ..	5318
Lieut. S. N. Smith	" ..	5367
A.C.2 C. E. Spillane	R.A.F. ..	1060
F./Sgt. R. Spivey	" ..	2ARP
P.O./Tel. P. J. Sproson	R.N. ..	5366
Cpl. J. Stackhouse	R.A.F. ..	5316
W./O. N. Stokle	" ..	5315
L.A.C. E. A. Stone	" ..	5314
Cpl. J. B. Street	" ..	5412
Pte. F. B. Turner	R.A.O.C. ..	5305
A.C.2 H. D. Wardle	R.A.F. ..	5311
Cpl. M. H. Watson	" ..	5364
Cpl. J. Wilkie	" ..	5309
Cpl. R. Williams	" ..	5379
A.C.1 L. C. Winks	" ..	5307

PRISONERS OF WAR FUND

BOOKS.—We are still urgently in need of light literature. Members in a position to help are asked to communicate with Mr. C. H. L. Edwards, G8TL, at "Speedways," Bartholomews Road, Sudbury, Suffolk.

PARCELS.—Letters have come to hand from the majority of members who are P.O.W. confirming the receipt of their first parcels. Despatches continue to be made monthly to an average value of £1 per parcel.

ANOTHER OFFER.—Mr. Frank Forbes has kindly donated a collection of *Electronic Engineering* data sheets (No. 1-28), which will be sold to the highest bidder. Bids should be in the hands of the General Secretary not later than September 25.

DONATIONS.—The General Secretary acknowledges with thanks, on behalf of Council, receipt of donations from:—
Anon. 2s.; G. Haworth, G5XC, £1 1s.; G. Barrett, G8IP, 5s.; W. O. Wright, G6FQ, £10; R. B. Hoult, 2FOH, 10s. 6d.; R. E. Wood, G3TK, 5s.; C. H. Babbs, G5IG, 5s.; H. J. Hunt, G5HH, £1; A. E. Ashfold, GW5AB, 5s.; E. J. Tucker, G15DX, £1; G. J. Leary, 4212, 5s.; K. C. B. Field, 4363, 5s.; C. Kay, father of 3CO, 10s.; D. Watkin, 4271, 5s.; E. B. Grist, 4970, 4s.; 1593, £3; Mrs. Burns Grieg, G6M2A, £1; Capt. A. W. Phillips, 4486, £1; E. F. Gadsden, 4690, 10s.; W. H. Jennings, 3854, £1 19s.; Hut 298, No.1 S.S., £3 1s.; Lt. C. Jessup, W7CRL, £5; Anon., £1; No.1 R.D.F. School, 15s.; E. W. Glancy, W8UYU, £1; Sgt. Baraz, SP3FB, 5s.; Lt. H. Spain, W5IEH, 5s.; F./Lt. H. W. Simpson, G8DI, 5s.; Saracens Head Mtg., £3 6s. 6d.; H. Marshall, father of G2XQ, £1; A. C. Bryant, 3999, 1s. 6d.; District 7 per G2DP, 11s.; District 13 per G3ST, 18s.; District 13 per G2LW, 2s.; G. Steel, 2BXP, 2s. 6d. Previously acknowledged £377 0s. 8d. Total to date £418 3s. 5d.

News from the "Kriegies"

● On several occasions members now in enemy prison camps have written to advise us that they have received parcels from the Society with a card enclosed from a Mr. H. J. Carter. As we have no record of such a person we should like to hear from any member who can throw light on this minor mystery.

● "Snowy" Campbell, VK3MR, a prisoner of war in Italy, considers it a great honour to be adopted by the Society. Mr Edwards is arranging for a parcel to be sent each month to this old warrior of the DX chase. Incidentally, "Snowy" asks for books on photography. Offers to G8TL, please.

● Jack Kay, G3CO, another P.O.W. in Italy, reports the safe arrival of his first parcels from the R.S.G.B. fund and asks that his thanks be extended to all who have sent donations. John has found two other hams in his camp—Bob Garrett, G3BP, and M. R. McArthur, G4LB. Having started to interest potential amateurs in ham activities and in the work of the Society, they now plan a series of meetings. "As you can readily understand," he writes, "our chief enemy since capture is the monotony of life, continually shut behind high walls and barbed wire, and it is to our lively arguments and recollections of days on the air before the war, that we owe in large measure the apparent speed with which time passes. One of the greatest comforts arises from the reading material at our disposal, hence you can be assured that the books which are sent from the Society's P.O.W. Fund are very greatly appreciated indeed." Need we say more?

● Lt. Dennis Flower, G8TO, reports from VIB, Germany, that further P.O.W. parcels have arrived for himself, Shack, Mike Quartermaine and Tony Lister. He expresses his gratitude to all who have donated to the fund. As Dennis recently sat for a 6-days Institute of Brewing exam, he should by now be a connoisseur on Lagers—both types!

● Dorothy Hall, W2IXY, in a letter to Arthur Holden of Orpington, reports that H. de Putron, G8MF, of Guernsey is fit and well. The advice came to hand via the Red Cross.

LINCOLNSHIRE—THE HAM'S PARADISE

FOR the second year in succession, thanks to the Air Ministry, a party of Society members, who are serving with the Air Training Corps, were permitted to visit No.1 Signals School, R.A.F., during August. The party, which included seven officers and three civilian instructors, was attached to the School for a week during which time much valuable information was gleaned. In addition, many opportunities were provided for them to meet other R.S.G.B. members who are at the School.

The party included: F.O. John Clarrieots, G6CL, F.O. L. H. Peplar, M.C., G2JD, F.O. W. H. C. Jennings, BR83854, F.O. W. W. Barnes, G2FI, F.O. W. Pond, G6WO, P.O. S. C. Ash, G6OV, P.O. S. A. French, GM6FN, Capt. A. W. Phillips, BR84486, Mr. Eric Cosh, 2DDD, and Mr. E. F. Gadsden, BR84690.

Overseas Amateurs Contacted

On Sunday, August 16, the visiting officers were entertained at Bristol Wood Mess by P.O. Peter Tremaine, G8PB and P.O. John Evans, G8VJ. Contacts were also established with P.O.'s McMillan, VE4QH (who happened to be "orderly dog" on the day the party arrived), Blachford, VE3AHX and Brown, VE3AHV. Petty Officer Odd Hope, LA2AU, Lt. Cliff Jessup, W7CRL, Lt. Horace Spain, W5IEH ("blokes," what a call!) and Lt. Glancy, W8UYU were later discovered, whilst F.O. Vlademar Fiser, OK181 (already contacted by G8PB and Co.), was introduced to the party.

Meetings Held

Thanks to the kind co-operation of Wing Commander John Kirk (Chief Instructor), G6CL was given an opportunity on August 19 to address Signals School personnel on the work of the R.S.G.B. In spite of heavy rain, an attendance of over 70 was recorded. Mr. Clarrieots spoke of the early work done by the Society and gave a brief summary of its progress during the past 15 years. The value of co-operation between serving amateurs was especially stressed.

On the following evening, as the result of some excellent spare work by P.O. R. W. Standley, G8RW, Sgt. Fehton, G8GG and other instructors, a highly successful meeting was held in Hut 238. At this meeting G6CL spoke of the efforts being made by the Society to prepare for the future. He also emphasised the importance of holding meetings in camp at regular intervals.

Later in the evening Capt. Phillips (PXL of pre-1914 days) appeared on behalf of the R.S.G.B. Prisoner of War Fund. Capt. Phillips, an ex R.A.F. pilot who is now totally blind as the result of an air crash, related many incidents which occurred during the time he was held prisoner in Germany during the last war. His appeal met with excellent response, no less than £6 10s. being donated during the evening.

Our President Arrives

On Friday, August 21, Mr. A. D. Gay, G6NF, President of the R.S.G.B., was entertained in the Mess as guest of the General Secretary. During his visit the opportunity was taken to meet P.O. Smethurst, recently appointed Hon. Secretary, R.A.F.A.R.S. Mr. Gay and the Secretary discussed with him many matters of mutual interest which should prove advantageous to both the R.S.G.B. and to the local Society at an early date. A long informal discussion also took place between the Chief Instructor and the Society's representatives, a discussion which enabled Mr. Gay to appreciate many of the problems involved in training R.A.F. signals personnel.

Saturday, August 22, was devoted to an inspection of the School Laboratories. In this connection thanks are recorded to Sq./Ldr. Hibbins, BR83887 (O./C. W.O.M.'s School) and to Ft./Lt. Hands (W.Ops. School). The former provided the party with a first-hand account of W.O.M. School arrangements, and personally conducted our President and Secretary on their morning tour. Mr. Hands was equally helpful later in the day.

Mr. Gay also visited the Communications section where he examined the equipment used for trade testing wireless operators. The party noted that our President's "fist" had lost none of the guile that made his pre-war station world famous.

The Lincoln P.D.M.

In accordance with pre-arranged plans the party left No.1 Signals School on the following day to attend the Lincoln P.D.M. arranged by Dr. Arthur Gee, R.A.M.C. (G2UK). At this meeting which took place at The Saracen's Head, an attendance of nearly 80 members and friends was recorded.

Mr. Gay in opening the meeting expressed his personal pleasure at meeting so many members and formally welcomed visitors from other lands. He spoke briefly of Council's hopes and aspirations for the future, emphasising that no stone would be left unturned in order to obtain an early restoration of licences after the war.

The meeting was then addressed by the General Secretary who spoke for nearly an hour on many aspects of the Society's work. He referred to post-war plans and stated that the Council hoped to set up a Headquarters worthy of the name. He said it was impossible at present to forecast what frequencies would be allotted to amateurs, but he said he felt sure that as a result of the splendid work done by them during the war, good support would be forthcoming from the R.A.F. and the other Services. He stressed the value of establishing a close liaison with the A.R.R.L. and with all Dominion and Colonial amateur organisations, as well as with the amateurs of the Free Nations.

Reference was made to present day activities, applause greeting his statements that the membership had increased to a figure far in excess of the peak pre-war total, and that the Society's credit balance was now 400 per cent. greater than in August, 1939.

He emphasised the importance of supporting the newly formed V.H.F. groups set up by the Experimental Section. Reference was made to the recent successful meetings held at No.1 S.S. and an appeal made for regular meetings to be held during the coming autumn and winter. He announced that of the 2,500 members on active service, nearly 70 per cent. were in the R.A.F.

At the conclusion of the Secretary's speech the company adjourned for tea, after which photographs were taken.

Assembling again at 6 p.m. the President called upon representatives from overseas to address the meeting. Among the speakers were Lt. Cliff Jessup, W7CRL (late S.C.M. for Idaho), Lt. Spain, W5IEH, Petty Officer Odd Hope, LA2UA (Bob to everyone), and Sgt. Baracz, SP3FB. Each of the speakers expressed his surprise and pleasure at finding such a virile organisation as the R.S.G.B. still in being. The foundations of many lasting friendships were sown at this meeting.

At the invitation of the President, Capt. Phillips again made an appeal on behalf of the P.O.W. Fund, and it is worthy of record that an additional sum of over £11 was donated.

As a fitting conclusion to the meeting, some of the Society's films, taken at Field Days before the war, were projected by Mr. G. F. Shepherd, G3CZ, who is cordially thanked for his assistance. Unfortunately many of the films are now the worse for wear, but they served to bring back pleasant memories of happy days gone by.

Proof of the present power of the Society was forthcoming in the number of applications for membership handed in at the various meetings. The full total was 23.

In bringing to a close this brief account of a memorable week, the writer desires to extend his thanks to everyone at No.1 Signals School, who in any way contributed to the enjoyable time spent there by the R.S.G.B. party. In particular he records his thanks to the A.O.C., Air Commodore H. M. Probyn, D.S.O., who, in many ways helped to make the week an unqualified success for the R.S.G.B. party.

Grateful thanks are also recorded to Wing Commander Kirk, and to all other officers and instructors who provided such valuable assistance.

There can be little doubt that the work of the R.S.G.B. is looked upon with favour and interest at No.1 Signals School—a tribute to the many hundreds of members who, by their actions, have shown that the radio amateur of Great Britain is in a class by himself.

73.

Lists of calls for inclusion in this feature must be limited to six calls, set out in alphabetical and numerical sequence.

G4HK (R.A.F., M.E.F.), to G3NR, NZ, 6LN, SHG, 2DRR and 2BKO.

G6TV (R.A.F.), to G6GH, LH, SPF, PI, PQ, and 4315.

GW3AX (Roseland, Kittle, Bishopston, Swansea), to G2IP, 3GO, 3XW, 4CC, 5PH, 6GJ, and "The Three Musketeers."

GW3QB (R.A.F., M.E.F.), to G3PZ, RU, WD, GW3CR, 880 and E13P.

2BDA (Bolton), to G2OA, OI, 5CR, 2AEJ, 2BTO, 2FPI.

2HCP (R.A.F.), to G3IC, 5MS, 6VQ and 8GG.

BR54738 (R.A.), to G2GZ, VB, 3ST, 5PY, 2HHD and 4603.

Congrats

● To "Farm-ham" Sig. R. E. Wood, G3RK, now proud father of a Junior Op.

● To old timer Norman Richardson, G5HJ, on his recent marriage. 'HJ is now living near Bletchley, Bucks.

● To H. B. Dent, G2MC of Pinner, on his promotion to Wing Commander. H. B. D. was on the staff of *The Wireless World* prior to the war and was an active member of the Golders Green and Hendon Radio Society.

● To F. E. Seales, 2FNS, G. A. Bryan, G8BN and J. J. Williamson, 5229 on passing the City and Guilds Radio Communications Grade III and Technical Elect. Grade II examinations. All three are at No.1 S.S.

● To F./Sgt. W. Crockett, 3888, on passing the C. and G. final examination in Radio Communication.

● To Dick Canning, G6YJ, on his recent marriage. Home address is now 84A, Tyrwhitt Road, Brockley, London, S.E.4.

IS YOUR
★ Subscription Due?
Prompt payment assists Headquarters

BRITISH ISLES NOTES AND NEWS

DISTRICT 1 (North Western)

D.R.: H. W. Stacey (G6CX), "Sandless," Eddisbury Road, West Kirby, Cheshire. Hoyleke 337.

ARRANGEMENTS have been made for the North Western P.D.M. to be held at Chester on Sunday, September 20. Full details will be found elsewhere in this issue. As catering and other difficulties have been overcome, it is hoped that members will go out of their way to support the meeting. A cordial invitation is extended to members of District 11 and all other Districts, and to members of the Services located in the area. The General Secretary will be present and it is anticipated that our President (Mr. A. D. Gay), will also attend.

Official meetings are few and far between these days, so please make a special effort and give the meeting your full support. Several members who are serving with H.M. Forces have already informed the D.R. of their intention to be there (having arranged their leave for that express purpose), so there is every prospect of a most enjoyable rag-chew. G6CX.

DISTRICT 3 (West Midlands)

D.R.: V. M. Desmond (G5VM), The Chestnuts, Hanley Castle, Wores. Hanley Swan 41. Scribe: E. J. Wilson (2FDR), 48 Westbourne Road, Olton, Birmingham, 27.

Due to the small attendance no official meeting of M.A.R.S. was held last month but an interesting informal discussion took place on past Field Days and other topics. G15HU was a welcomed visitor.

It is again regretted that no news has been received from individual members. Has the District shut up shop for the duration? 2FDR.

DISTRICT 4 (East Midlands)

Deputy D.R.: W. M. Vandy (G6VD), 9 Cecilia Road, Clarendon Park, Leicester.

Nottingham.—The next meeting will take place on September 27 at 2A00, 78 Henry Road, West Bridgford, at 6 p.m. We are pleased to hear that 5TT, who is now much better in health is giving signals instruction. He would like to get in touch with any member who could let him have V.H.F. literature.

Mansfield.—4DS and SNS recently met SOT home on leave after a long spell in the "far north." It is reported that 2FPT is bound for a warmer climate. A welcome is extended to new members, 4906 and 5037.

Derby.—20U reports a visit from 4653, who has been posted nearby.

Northampton.—It is hoped that a meeting will soon be arranged. Considerable support has been promised and all interested are invited to contact 3PZ, 61 Broadway, Northampton. Congratulations to 3PI and YL who are to be married this month.

Leicester.—2BAP (now a Sergeant), writes a cheery letter from Scotland, in which country are also 6IM and 2CFC, the two latter paid a visit to 6VD when on leave. Also home recently were 8NI (Sgt. R.A.O.C.) and our D.R. G2RI.

G6VD.

DISTRICT 5 (Western)

D.R.: R. A. Bartlett (G6RB), 31, King's Drive, Bishopston, Bristol. Bristol 4690.

Although the attendance at the last Bristol meeting (held on August 23) was rather small, it is clear that plenty of enthusiasm exists in the District. 3383 cycled in from Dursley while other members came from long distances.

A cordial welcome will be extended to all overseas and British Isles amateurs who find themselves in or near Bristol on September 27, when a meeting will be held at 17 Colston Avenue, Centre, at 3 p.m. A junk sale will take place and the proceeds donated to the P.O.W. Fund. Members who have odd components for disposal are asked to bring or send them to the above address so that the Society's good cause will benefit.

The D.R. regrets that no news has been received from other areas. G6RB.

DISTRICT 7 (Southern)

D.R.: W. E. Russell (G5WP), "Milestones," Mayford, Woking, Surrey. Woking 1589.

Coulsdon.—GSTB, one of the original "Early Birds," was married on August 15th to Miss Ford. 2BQC acted as best man whilst 2KU was photographer. 5124 has passed his entrance examinations into the M. N. as Radio Officer and is now waiting for a ship. (via 3003).

Croydon.—The August meeting at 1545's was attended by: 2DP, 2KU, 3ST, 4NI, 5BT, 2FWA, 2HHD, 1545, 3003, 4165, 4324, 4584 and 5317. We had hoped for a good attendance by the ladies, but the only one present was Mrs. 5BT. 4314 and 4150 have joined the Forces. Best of luck, chaps, and don't forget to write to 2DP. 1545 had a refractory receiver at the meeting, but 4324 and 2DP with pliers, hammers and gentle tactics got to work with the result that it now works! See Forthcoming Events for the October meeting. (via 2DP).

Bournemouth.—3789 has joined the R.A.F. Best of luck, O.M. 2DP (Thornton Heath) recently spent a short holiday in the town and met some of the gang. 41J has been home on leave, looking very fit. (via 2HNO).

Guildford.—Local members heard with dismay of the sudden death, at Malvern on August 19, of Reg Neale, G6GZ. Reg, who had been for a great number of years one of the keenest supporters of the Society, died from heart failure. The memorial service at Aldershot was attended by Eric Rawlings, 5RS, representing the R.S.G.B. Numerous tributes have been paid to Reg as a man, as a "ham," and as a Radio Engineer. G5WP.

DISTRICT 9 (East Anglia)

D.R.: H. W. Sadler (G2XS), The Warren Farm, South Wootton, Kings Lynn, Norfolk. Castle Rising 233.

Yarmouth.—Meetings continue to be held regularly and Mr. Kay, 3789, who is stationed nearby, hopes to drop in on one occasion.

Norwich.—Mr. Hayden, 4588, who was evacuated to Cornwall, but is now back in Holt, hopes that a meeting can be arranged (that makes FOUR, what about it, you other fellows?). He has been teaching Morse to the A.T.C. News is to hand from 51X now at Watchet. He reports contacts with 5QO and 2UJ. 2MN must have quite recovered from his illness, for when writing from Liverpool whilst on holiday, he enquired if we had decided how many stations we are putting in for next N.F.D.!

Kings Lynn.—At long last we have news from 5UD who, we regret to say, has been in hospital for five months. He is out and about again now. He spent his spare time in bed getting out details of a Super Super Het! What about it Yarmouth, looks like some competition? Keep it up, Boys. G2XS.

DISTRICT 11 (North Wales)

Deputy D.R.: C. Spillane (BRS1060), "Woodside," Meliden Road, Prestatyn.

Prestatyn.—The August meeting held at BRS4762, was attended by GW4CK (home on leave), G3IR, BRS2731, 3044, 4762, J. Howard, R.A.F., and Mr. King. A short period of Morse instruction was a feature of this meeting and in view of its popularity it will be continued in future.

As District 1 are arranging a P.D.M. at Chester on September 20 it has been decided to hold the next District 11 meeting in October.

2HIY and BRS1060 have joined the R.A.F. and the latter is at 14 R.C. looking for ham contacts. If other members are in this area, how about getting together? Letters via "Woodside," Meliden Road, Prestatyn, please. 8BM (Wallasey), whilst on a visit to the district called on 1060. Congratulations to GW3CF on his second stripe.

ZL2RI has visited some of the locals. In a letter from the M.E., BRS4023 (G2SO's brother), reports all well, and sends 73 to all old friends.

BRS1060 hopes that in spite of present circumstances it will be possible for him to keep in touch with the District. For the present, therefore, he will gather in the news items and 4762 will continue to place a room at our disposal. Members can do their bit by writing regularly.

Please support our neighbour's effort on September 20 and above all keep the flag flying. BRS1060.

DISTRICT 12 (London North and Herts)

D.R.: S. Buckingham (G5QF), 41 Brunswick Park Road, New Southgate, N.11. Enterprise 3112. Scribe: P. R. Solder (G5FA), 35 Torrington Gardens, New Southgate, N.11. Enterprise 4347.

The last District meeting, held on July 26 in the spacious grounds of "The Wilderness," Blagden's Lane, Southgate, was fairly well attended. The usual rag-chew took place, after which a stroll through the grounds gave us a great idea for future

RADIO BRAINS TRUST

The Second Session of the Radio Brains Trust will take place on

SATURDAY, SEPT. 26th, 1942

at

The Institution of Electrical Engineers
SAVOY PLACE, VICTORIA EMBANKMENT
LONDON

COMMENCING AT 2.30 P.M.

Questions should be addressed to the Chairman,
Radio Brains Trust, c/o R.S.G.B., 16 Ashridge
Gardens, London, N.13, and should arrive not
later than September 21st.

N.F.D.'s. What a site, here right in the heart of the District, and to think of all the miles we have trudged around the countryside in the past.

2CNC (St. Albans) writes to say that he is prevented from attending meetings by Home Guard and business duties. He is still working on the design of a 9-valve receiver, but is finding the building of a metal chassis a little difficult. 3825 (R.A.F.), now a Corporal, has arrived back at his old billet in Suffolk after travelling around the country. 5307, a Radio Mechanic in the R.A.F. and stationed in G.M. called on the D.R. while on leave recently. Congrats to G8TY and 2BAB on receiving their commissions as P.O.'s, R.A.F.V.R. (Training Branch); this brings up the total number of District members who are serving with commissions in the A.T.C. to 16—a record, we believe. The District was well represented at No. 1 S.S. during R.S.G.B.—A.T.C. week, for, in addition to F.O. Clarrieatts, G6CL, F.O. Jennings, 3854, P.O. Ash, G6OV, and Capt. A. W. Phillips, 4486, were in the party. A full account of their activities appears elsewhere in this issue.

SSK has just returned from an A.T.C. course at No. 3 S.S., where he met a number of hams, including W9UFL.

The next meeting will be held at G6OT, 119, Wynchgate, Southgate, N13 (Tel. PAL. 1713), on Sunday, 27th September, at 3 p.m. Nearest station Southgate Underground or Buses 29 and 244, thence three or four minutes walk.

G5FA.

Forthcoming Events

- | | |
|----------|--|
| Sept. 19 | District 15, 6.30 p.m., at G6XP, 24 Bowness Drive, Hounslow. (Near trolley 'bus terminus.) |
| Sept. 20 | District 1, P.D.M., at Chester. (See separate announcement.) |
| Sept. 20 | District 13, 3 p.m., at 2HHD, 85 Bedford Hill, Balham. (3 mins. from Balham station.) |
| Sept. 26 | London Meeting, 2 p.m., at I.E.E., Savoy Place, Victoria Embankment, W.C.2. Second session of "The Radio Brains Trust." (See separate announcement.) |
| Sept. 27 | District 5, 3 p.m., at 17 Colston Avenue, Centre, Bristol. |
| Sept. 27 | District 12, 3 p.m., at G6OT, 119 Wynchgate, Southgate, N.14. |
| Sept. 27 | District 15 (High Wycombe Section), at G2RL, "Deenwood," Tottenham, High Wycombe. (Bus No. 363 from Frogmore, H.W., to First Crescent.) |
| Sept. 27 | Scotland "A" District, Royal Technical College, Glasgow, at 3 p.m. |
| Oct. 4 | District 7, 3 p.m., at G4NI, 86 Whitehorse Road, West Croydon. |

DISTRICT 13 (London South)

A.R.'s: L. H. Shersby (G2GZ), 41 Reverdy Road, S.E.1 (South Eastern); S. E. Langley (G3ST), 62 Dumbarton Road, S.W.2 (Central); E. H. Simmonds, (G8QH), 17 Roedean Crescent, Roehampton, S.W.15, Prospect 1990 (Western).

South-Central and Eastern Areas.—Twenty-three members attended and enjoyed the August meeting. Good going, boys, keep it up. G4KY gave the "Premiere" of a film taken by him at his QRA, entitled "A Galaxy of Stars of the Air." The star was "Funf," BR54324. Great fun was derived from the display. Thanks are recorded to Mrs. Grazebrook for the excellent refreshments provided. All present extended 73 to Service members everywhere. See "Forthcoming Events" for September meeting. G2GZ and G3ST.

South Western Area.—The Log, which is on its rounds again, brings in a very interesting bunch of notes. GQN has been listening nostalgically on 40 and finds the genus ham is not quite extinct. 3DF reports his attendance with 3YU at 2JK's wedding, and contributes some interesting and controversial thoughts on post-war licence conditions. He raises the question of a "central meeting place" in London for R.S.G.B. members and visitors. 6DT still hears from VP3LF, and thinks the main official interest in the ham movement after the war will be to regard it as a reservoir of brass-pounders for the next (!) war. He suggests that Council should be elected from the Regions to represent local interests rather than from London and the South only. 2JK reports on his "close-coupling"—and provides a very nice picture of the wedding. Warmest good wishes, OM and OW! 73 to all. GSQH.

DISTRICT 14 (Eastern)

D.R.: R. L. Varney (G5RV), 184 Galleywood Road, Chelmsford, Essex. Chelmsford 3394.

Chelmsford.—There is little to report as holidays (for the lucky few who can get them!) are, or were, in full swing. 5HF has promised to "play truant" long enough to attend the next local meeting. 6LB still struggles manfully with his superhet under construction. 5RV continues to meet hams in the Services at

various places and times. Nothing has been heard of SPB since his marriage. (We saw plenty of Tiny at No. 1 S.S. last month! —Ed.). No news of 280. Other areas of the District seem to be wrapped in deep thought and preserve a deathly silence! Come on, fellows, let us have a little local "gen."

G5RV.

DISTRICT 15 (London West, Middlesex and Buckinghamshire)

D.R.: H. V. Wilkins (G6WN), 539 Oldfield Lane, Sudbury Hill, Gifford, Middlesex. Byron 3369.

The attendance at the August meeting was exceptionally good and in this connection we have to thank Mr. and Mrs. G4KG for entertaining us and finding something to eat and drink for everyone. The R.A.F. was represented by SP1QA, SP1RH, ZL3JF, G5KT, 2CVJ, 2FCJ, 2H1W and 5249, the Army by 5027, and "Civvy Street" by G4KG, 6WN, 6XP, 2ADL, 2CLL, 2FCW and 4473. 4KG demonstrated his recording gear and several of those present made short recordings which were played back.

It was with deep regret that the D.R. announced, at this meeting, the tragic death of Cpl. Odle 2BAJ in an aircraft accident, for it was only last month that we recorded the news of his marriage. Our sympathies are extended to his wife and relatives. A wreath was subscribed for at the meeting.

With the help of G2RL, a meeting has been arranged to take place in High Wycombe (see Forthcoming Events). We thank him for his offer. Details of the next District meeting will be found under the same heading.

News has been received from G8VM, who is now in training near Manchester (we met him at No.1 S.S. the other day.—Ed.). 2FVU a Pilot Officer at No.1 S.S. reports contact with OK2SL, G8PB, 8RY and 8VJ. 4KG and 6RW are now in the R. Sigs. 5224 reports work on receiver construction. 6IF sends 73 to 58R and 2FVU to 8WK. 4780 is looking forward to the High Wycombe meeting.

We welcome all new members to the District and hope to see them at future meetings. G6WN.

DISTRICT 17 (Mid East)

D.R.: Dr. A. Gee (G2UK), "Stonehaven," Horncastle Road, Boston, Lincs.

Considering the difficulty of travelling, the attendance at the P.D.M. last month was very good. The D.R. was, however, disappointed not to see more local members present. But those who made the effort were well rewarded for their trouble. It was especially pleasing to see a party of "NottingHams."

Boston.—Congrats to 2BQC who has recently celebrated his 21st. 6GH is reported to be safe and well in the M.E. A near neighbour of 2UK's was in billets at an Army Depot with a "fellow who reads a little green radio mag." Looking through it the neighbour recognised 2UK's address. Result: contact between 2UK and ZB2A, the fellow who reads "the little green radio mag."

Grimsby.—2HNN, now at Grantham, says 4GZ, a Grimsby amateur with whom he went to school, is now in India with the R.A.F., as a Sgt. R./Mec. 2HNN would like news of 6AK, 8KH and 5GS.

Lincoln.—Thanks are due to 3CZ for providing and operating the cine projector at the P.D.M.

Sheaford.—G8GI, who reports all's well, has met some W hams and a YI recently. 4694 is at No.1 S.S. on an R./T. Observer course and sends best wishes to all his friends in Bournemouth. G2UK.

DISTRICT 18 (East Yorkshire)

(In the absence of news from our D.R., Mr. Mitchell, G5MV, we publish the following brief notes from Mr. S. Davidson, G6SO, of Scarborough.—Ed.)

Recent visitors to the town have included Les Parry, G6PY, complete with proverbial cigarette holder, and 2DDA on week-end leave from the R.A.F. He is now at an R.A.F. convalescent depot in the Midlands. Jack Cooper, G6CP, has also been on leave from the R.A.F. 1420 is taking lessons in Morse.

Scotland

Scottish Records Officer: J. Hunter (GM6ZY), 51 Camphill Avenue, Glasgow, S.1. Langside 237.

"A" District.—An attendance of 80 was recorded at the August meeting, when Dr. Bradshaw delivered his lecture on Cathode Ray Oscilloscopes. The lecture was well illustrated with practical demonstrations on a varied collection of oscilloscopes. SP1FI (Polish Navy) was a welcomed visitor. Due to the fact that the Y.M.C.A. has cancelled our bookings for Sunday meetings at 100, Bothwell Street, Glasgow, accommodation has been obtained at Glasgow Royal Technical College, thanks to Dr. Bradshaw and Professor Tait. The next meeting will be held on September 27th, (Continued on page 48)

HEADQUARTERS CALLING

July Council Meeting

Resume of the Minutes of a Council Meeting held at the Institution of Electrical Engineers, London, W.C.2, on Monday, July 6, 1942, at 6 p.m.

Present.—Messrs. A. D. Gay (President), E. L. Gardiner, A. E. Watts, G. A. Jessup, S. K. Lewer, W. H. Matthews, E. H. Simmonds, A. J. H. Watson and J. Clarricoats (General Secretary).

Apologies were received from Messrs. H. A. M. Clark (on vacation), J. W. Mathews (on Service duties), and W. A. Scarr (detained on private business).

1. Ninety-eight applications for membership were approved. Seventy-one applications were sponsored by Corporate members and 27 were supported by references.

2. It was reported that the undischarged assets of the P.O.W. Fund as at July 1 amounted to approximately £245.

3. The death was announced of Mr. E. J. Simmonds, G2OD, Vice-President. It was agreed to make a donation to the British Red Cross Society as a tribute to his memory as a pioneer in the field of amateur radio communication and research.

4. It was unanimously resolved that "no prisoner of war shall be entitled to receive parcels from the R.S.G.B. Prisoners of War fund unless he was a member of the Society at the time he was taken prisoner."

5. A suggestion to obtain the use of a room in Central London as a meeting place for overseas amateurs was considered. The President agreed to follow up a line of enquiry and to report to the next meeting.

6. It was agreed to order a reprint of *Radio Handbook Supplement* subject to a licence being obtained for paper.

7. It was reported that a successful P.D.M. had been held on June 21 at Prestatyn. Permission was given to hold a P.D.M. in Lincoln on August 23. It was also reported that meetings will be held in Chester and Cardiff provided reasonable support is forthcoming.

Radio Brains Trust

Following the first and highly successful session of the Radio Brains Trust held last May a second session has been arranged to take place on Saturday, September 26, at the I.E.E., Savoy Place, Victoria Embankment, London. The I.E.E. will be open from 2 p.m. for informal discussion and the session will commence at 2.30 p.m. under the Chairmanship of Mr. A. D. Gay, G6NF (President). Tea will be served at 4.30 p.m.

Questions should be sent in a sealed envelope and addressed to the Chairman, Radio Brains Trust, c/o R.S.G.B., 16 Ashridge Gardens, London, N.13. Last day for questions Monday, September 20. No member should submit more than two questions.

District 8 Representation

Council has pleasure in announcing that Mr. L. W. Jones, G5JO, 16 Leys Road, Cambridge, has kindly consented to act as Deputy D.R. for the Home Counties in place of Mr. S. Granfield who has asked to be relieved of his duties for the duration of the war owing to pressure of private business and Army Cadet Corps activities.

Mr. Jones needs little introduction, as his pre-war activities were well-known to most members.

Members living or serving in the Home Counties District are cordially invited to write regularly to Mr. Jones, who is anxious to forward a report for publication each month.

In thanking Mr. Granfield most cordially for his past services, Council extends its best wishes to his Deputy.

Returned "Bulletins"

A large number of copies of the August Bulletin were returned to Headquarters marked "gone away," including several from Service addresses to which they had been redirected from a member's home.

Immediately a Bulletin is returned to Headquarters the appropriate stencil is removed from file and no further issues are sent until the member concerned writes in. By that time it may be impossible to supply back issues.

Members are again urged to advise the Society immediately they change their permanent address.

Ham Hospitality

The response to our appeal in the August issue has been rather disappointing, less than 20 offers having been received up to August 30. In view of our desire to give wide publicity to the list of names, publication has been deferred until our next issue.

Members in a position to extend hospitality are asked to forward the following particulars to Headquarters without delay:

Name. Pre-war call or B.R.S.
Full Postal Address. Telephone No.
Days or Times Available. Whether previous advice is required.

Several members offering hospitality have suggested that a loose leaf or card be issued. Whilst agreeing that this would be most desirable, we doubt whether we should be permitted to carry the suggestion into effect in view of recent Government orders restricting the distribution of inserts.

"Radio"

After a long delay which had not been explained up to the time of going to press, the May issue of *Radio* was duly received at Headquarters on August 28.

We notice on page 57 that the publishers "reserve the right to withhold from foreign subscribers any issue the regular domestic edition of which is not approved by the authorities for export without change. In such cases subscriptions will be extended so that each subscriber will eventually receive the number of issues to which he is entitled."

Rubber Stamps

We have been able to obtain a small quantity of rubber stamps incorporating the old T. & R. Badge which we offer to members at 3/6 each post free. First come, first served.

Any News?

Under this heading it is proposed to publish enquiries regarding any member who has been reported missing or gone away from a previously known overseas address.

A first list appears below:

Jim MacIntosh, VSIAA, late of P. & T. Dept., Kuala Lumpur, F.M.S.

Archie Wales, 3644, Private R.A.S.C. Last heard of in Malaya. K. N. Smith, GJRH, Sgmn. R. Sigs. Last heard of with 105, S.W.S., M.E.F.

A Good Samaritan

It is with considerable pleasure we learn that as a result of a paragraph published in our "Khaki and Blue" section last month, Mr. H. N. Gant, 3759, has been presented with a binder containing a collection of *Electronic Engineering* Date Sheets. "The Good Samaritan" was our old friend, Geoffrey Parr, Editor of *Electronic Engineering*.

Trouble Tracing

Now that the majority of service engineers are otherwise engaged, it seems probable that a series of articles dealing with the tracing of faults on receivers would prove useful to many members. The General Editor will be pleased to consider offers from members who are in a position to prepare such articles.

Mr. Joseph Causton, O.B.E.

It is with deep regret that we record the death, at the age of 69, of Mr. Joseph Causton, grandson of Sir Joseph Causton, founder of the well-known firm of printers who, since 1839, have undertaken the printing of this Journal and other Society publications.

Mr. Causton, who was a joint managing-director of the Company and a City Liveryman, had for many years shown a deep personal interest in the work of the R.S.G.B., and it was largely due to his influence that many war-time difficulties were overcome.

Our sympathies are extended to his relatives, and to the London and Eastleigh staffs of *Sir Joseph Causton & Sons, Ltd.*

For Your Bookshelf

INTRODUCTION TO VALVES INCLUDING REFERENCE TO CATHODE RAY TUBES. By F. E. Henderson. Published by the Wireless World, Dorset House, Stamford St., London, S.E.1, on behalf of the General Electrical Co. Ltd., England; 4/6.

Written by a prominent member of the Osram Valve Dept. this new publication is intended for those who, with little or no previous experience, are called upon to handle radio valves, c.r. tubes and their associated devices.

The following list of chapters indicates its scope and shows with what thoroughness the author has covered his subject: (1) The Nature of Electricity; (2) Electron Current; (3) The Valve in Practice; (4) Control of Electron Stream; (5) Fundamental Characteristics; (6) The Indirectly-heated Cathode; (7) The Triode as Amplifier, Detector and Oscillator; (8) Types of Amplification Circuit; (9 and 10) Multiple-Electrode Valves; (11) Valves in Push-pull and Parallel; (12) Gas-filled Valves, Mercury Vapour Rectifiers, Gas-filled Relays; (13) Electron Beams; (14) C.R. Tubes; (15) Current and Voltage Stabilisers. The appendices contain lists of common symbols used in valve circuits and useful formulae. The Selected References section is one of the most comprehensive yet published. The text is illustrated with 130 half tone and line blocks.

The author is congratulated for producing such a wealth of information on a subject which to-day has a wide appeal. For instructional purposes this book has few equals, as a source of knowledge it should provide the answer to a thousand problems. We unhesitatingly recommend it to all readers.

NEW MEMBERS

Home Corporates

- J. DUCKWORTH (G3FM), 19 Carlton Road, Benton, Newcastle-on-Tyne.
 R. B. WILLIAMSON (G5RW), 18 Burns Street, Ilkeston, Derbys.
 C. H. ASKHAM (G6TT), 18 Stanley Gdns., Orrell Park, Liverpool.
 C. J. M. HEAD (2ADW), 26 Herkomer Road, Bushey, Herts.
 R. SPIVEY (2ARP), 42 Finsbury Grove, Fountain Road, Hull.
 A. F. THOMPSON (2BXJ), The Hamstage, Stokesby, nr. Gt. Yarmouth.
 J. R. LANE (2CJL), Station Road, Cheddar, Som.
 C. PAGE (2COU), 50 Blenheim Crescent, Luton.
 A. E. CORNISH (2DOW), Crowbeare Ctge., Torrington, N. Devon.
 S. E. WHITELEY (2DAN), 73 Chesterfield Road, Barnet.
 A. HOLT (2FJG), 9 Romney Avenue, Burnley.
 R. D. HORROCKS (2FLP), 10 Washway Road, Sale, Manchester.
 G. S. C. UDALL (2HCD), Greentrees, Norris Hill, Southampton.
 J. BALLARD (2HDY), 18a Chatham Road, Petts Wood.
 P. ROSAY (2HNR), 97 Wilmslow Rd., Didsbury, Manchester 20.

Home Corporates (B.R.S.)

- T. G. PETERSEN (5287), Veere, Baddow Hall Cres., Gt. Baddow.
 R. L. GREEN (5288), 87 Meads Lane, Seven Kings, Essex.
 M. SCOTT (5289), 264 Darnley Street, Glasgow, S.1.
 A. NEWSON (5290), 4 Plantation Terrace, Dawlish.
 S. CHAPMAN (5291), Marston, Chester Road, Poynton, Cheshire.
 T. T. SHERRY (5292), 356 West Road, Newcastle-on-Tyne.
 M. ROBINSON (5293), 34 Sandringham Road, West Hartlepool.
 J. A. M. FERGUSON (5294), c/o 14 Greyfriars Street, Elgin.
 G. L. BLUNN (5295), 37 Burnham Av., Oxley, Wolverhampton.

A CORDIAL WELCOME IS EXTENDED TO THE

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NEW MEMBERS WHOSE NAMES ARE LISTED

- S. J. D. TAYLOR (5296), 52 Longford Street, Glasgow, E.1.
 L. OSBORN (5297), 50 Ashmore Road, London, W.9.
 E. L. DAVY (5298), New Barn Fm., Oak Tree Rd., Marlow, Bucks.
 E. H. RUDOLPH (5299), 24 Nesta Road, Canton, Cardiff.
 J. T. TUDLEY (5300), 117 Elgin Road, Seven Kings.
 W. T. SHELTON (5301), 31 Fulwood Avenue, Alport, Middx.
 F. H. BRILSFORD (5302), 15 Park Avenue, Ilkeston, Derbys.
 J. W. ROE (5303), 36 Gordon Road, High Wycombe.
 J. F. EMMS (5304), 158 Bergholt Road, Colchester.
 F. B. TURNER (5305), 24 King Street, Blackburn.
 J. A. P. YOUNG (5306), Way-to-Wooler, Wooler, N.land.
 L. C. WINKS (5307), 37 Townsend Avenue, London, N.14.
 G. C. WILMOT (5308), Normanhurst, Farquhar Rd., Birm., 15.
 J. WILKIE (5309), 21 King Street, Perth.
 K. WHITEHOUSE (5310), 17 Brookdale Rd., Bramhall, Ches.
 H. D. WARDLE (5311), 243 Leicester Road, Wigston, Leics.
 J. TOWNSEND (5312), 22 Victory Road, Derby.
 L. G. TIMMS (5313), 1 The Valley, Whitwell, nr. Hitchin.
 E. A. STONE (5314), 48 Albert Avenue, London, E.4.
 N. STORKE (5315), BM/JAFBO, London, W.C.1.
 J. STACKHOUSE (5316), 20 Grace Road, Aintree, Liverpool, 9.
 J. SPARKOW (5317), 43 Melody Road, East Hill, London, S.W.18.
 E. G. SMALL (5318), 271 Birchfield Rd., E. Abington, Northampton.
 J. J. SHAW (5319), c/o 41 Innerbridge Street, Guardbridge, Fife.
 J. G. SCOTT (5320), 25 Chamberlain Street, St. Andrews, Fife.
 E. W. SCALES (5321), 89 Church Lane, Seunthorpe, Lincs.
 J. E. RUSBY (5322), 571 Queens Drive, Liverpool, 13.
 L. A. ROGERS (5323), Hillington, Recreation Rd., Wargrave, Berks.
 D. M. ROGERS (5324), 4 Priory Road, Cheam, Surrey.
 T. D. REILLY (5325), 23 Caerau Road, Newport, Mon.
 J. C. RAETIG (5326), Raeville, Beverley Rd., Kirkella, E. Yorks.
 A. E. PYRAN (5327), 74 Moor End Road, Halifax.
 W. B. PROBERT (5328), 11 Glen Avenue, Sale, Cheshire.
 C. B. PRETTY (5329), 52 Regent Road, Leicester.
 C. J. PORTER (5330), 21 Park Hill Rd., Harborne, Birm., 17.
 M. G. PICCOZZI (5331), 2a Stewards Lane, Coltonbridge, Lanarks.
 L. G. PACE (5332), 142 Fairlands Avenue, Thornton Heath.
 D. G. H. MORRIS (5333), 85 Broomfield Crescent, Edinburgh, 12.
 E. T. METHERELL (5334), 410 Foots Cray Road, London, S.E.9.
 J. C. MASON (5335), Kerry, Paradise Lane, Formby.
 T. H. MARSH (5336), 16 Exeter Road, Ipswich.
 J. T. LOWE (5337), 18 Fairfield Rd., Halesowen, Birmingham.
 J. C. LEIGH (5338), Menlo, Deyes Lane, Maghull, Lancs.
 W. E. LEATHERLAND (5339), Braeburn, Runnymede Road, Ponteland.
 A. JOHNSON (5340), Faraday, St. Mary's Drive, S. Benfleet.
 K. M. HUBBARD (5341), 1 Kelmiscott Road, London, S.W.11.
 F. A. HAYMES (5342), 55 Marl Close, Yeovil.
 F. HALSTEAD (5343), 24 Carlton Close, Luton.
 E. T. GRETTON (5344), 19 Temple Street, Brighton.
 A. W. GREEN (5345), 52 Beresford Avenue, Skegness.
 J. C. G. GILBERT (5346), Pen Rhiw, Royal Ave., Worcester Pk., Wy.
 B. GILROY (5347), Rossinver, Monksdale Dr., Cambuslang, Glas.
 L. FISHER (5348), Sutton Road, Huthwaite, nr. Mansfield.

H. McFADZEAN (5349), Deveronside, Bowling Green Road, Strathaven.

- J. F. ELSTON (5350), 53 Sutton Rd., Caerleon Rd., Newport, Mon.
 S. E. ELEY (5351), 55 Kingsfield Oval, Basford, Stoke-on-Trent.
 E. DRIVER (5352), 39 George Lane, Dredbury, nr. Stockport.
 G. A. DOWLAND (5353), Ivy Chimneys, Mt. Sion, Tunbridge Wells.
 W. A. M. DONALDSON (5354), 14 Sandend Road, Hurlet, Glasgow.
 A. DEELEY (5355), 15 Morland Road, Holbrooks, Coventry.
 C. W. CRIMP (5356), 1 Tremayne Place, St. Austell.
 E. A. COLLINS (5357), Northlands Cottage, Northfield, Ashstead.
 J. M. BUCHANAN, Jr. (5358), 37 Melville Street, Glasgow, S.1.
 W. E. BROADBENT (5359), 20 Brian Road, Farnworth, Lancs.
 L. J. LE BRETON (5360), 95 Bridport Road, Dorchester.
 G. A. BLAKE (5361), 2 Selbourne Terrace, Cambois, Blyth.
 C. N. BENDALL (5362), 2 Kelmiscott Road, London, S.W.11.
 D. W. E. WHEELER (5363), Hillcrest, Little Stukeley, Huntingdon.
 M. H. WATSON (5364), 21 Rose Avenue, Rushden, Northants.
 J. S. THORNTON (5365), 3 Western Parade, Billericay.
 P. J. SPROSON (5366), 8 Canal Road, Newtown, Montgomeryshire.
 S. N. SMITH (5367), c/o Forest Row Garage, Forest Row, Sussex.
 W. B. ROCK (5368), 23 The Parade, Cradley Heath, Staffs.
 G. B. REES (5369), P.O. Puncton, Letterston, Penn.
 N. L. PARLETT (5370), 33 Spencer Crescent, Oxford.
 R. L. KITTLE (5371), 45 Hatherley Gardens, London, E.6.
 E. JOHNSTON (5372), 155 Twyford Av., North End, Portsmouth.
 R. HUMPLEMAN (5373), 107 Berkeley Av., Cranford, Hounslow.
 H. J. GERDES (5374), 21 Scholes Drive, Manchester, 10.
 C. N. FREEMAN (5375), 7 Berlan Bach, Bangor.
 H. A. FLOWERDAY (5376), 2 Parkers Hill, Ashted, Sy.
 P. R. G. DIXON (5377), Cake Nor, North Road, Berkhamsted.
 K. CAMPBELL (5378), 11 Jackson Street, Clayton-le-Moors, Lancs.
 R. WILLIAMS (5379), Arvon Hse., Bridge St., Llangefni, Anglesey.
 F. S. BISHOP (5380), 53 Nursery Road, Moordown, Bournemouth.
 J. ATKINSON (5381), 3 East Place, Factory Lane, London, N.17.
 E. R. HUGH (5382), 29 Kingston Avenue, Stafford. (Transferred from Associate Grade).

- P. J. BIRD (5383), 61 Abbey Street, Old Lenton, Nottingham.
 R. D. KNAPPE (5384), 28 Horace Road, Barton, Torquay.
 T. G. KING (5385), Gayton-le-Marsh, Alford, Lincs.
 R. H. GREENWOOD (5386), Glencairn, Watkinson Road, Halifax.
 B. GRAYDON (5387), 41 King Edward Road, New Barnet.
 P. D. CRISP (5388), 26 Manners Road, Southsea.
 D. J. WATSON (5389), 1 Upper George Street, Luton.
 A. L. HENDON (5390), 17 Chesham Avenue, Bromley, Kent.
 R. JACKSON (5391), 2 Ripley Terrace, Walker Estate, Newcastle-on-Tyne, 6.

- J. SINCLAIR (5392), 29 Lanville Road, Liverpool, 19.
 C. A. CAMPBELL (5393), 201 Kent Street, Preston, Lancs.
 R. L. MARTIN (5394), 15 Bloomfield Road, Gloucester.
 J. L. ROONEY (5395), 31 Eccleshill Road, Liverpool, 13.
 E. W. VAUGHAN (5396), c/o The B.B.C. Empire Transmitting Station, Daventry.
 K. C. H. DEAR (5397), 187 Gosworth Road, Woking.
 G. S. C. LATHAM (5398), 2 Holt Avenue, Alveston, Derby.
 W. CAMERON (5399), c/o "Rowantree," Brackenbills, Beith, Ayr.
 F. G. ALCOCK (5400), 8 Norfolk Street, Farnworth, nr. Bolton.
 R. BREARLEY (5401), 57 Claypath, Durham City.
 S. HARDAKER (5402), 65 Hillcroft Crescent, Oxhey, Herts.
 I. J. H. ANDREWS (5403), 82 Dartmouth Road, London, N.W.4.
 E. CHAPMAN (5404), 49 Idsworth Road, Copnor, Portsmouth.
 MISS I. K. MOORE (5405), 71 Buckingham Avenue, London, N.20.
 W. G. SOAR (5406), 3 Laburnum Grove, Beeston, Notts.
 E. R. DRABBLE (5407), 14 Terence Road, Marton S.S., Blackpool.
 J. GILLESPIE (5408), 73 Fifth Street, Horden, Co. Durham.
 L. ALLWEIS (5409), Vendale, Vernon Road, Kersal, Salford, 7.
 R. A. NORMAN (5410), 4 Haig Place, Braunstone Av., Leicester.
 K. B. PONTIN (5411), 24 Devonshire Rd., Pendleton, Salford, 6.
 J. N. STREET (5412), 42 Tufnell Park Road, London, N.7.
 F. LAWTON (5413), 81 Church Street, Silverdale, Stoke-on-Trent.
 J. HUNTER (5414), 49 Twist Lane, Leigh, Lancs.

Dominion and Foreign

- L. HEIDEBRECHT (VE4AQQ), c/o 6 Devonshire Road, Heaton Moor, Stockport.
 F./O. C. W. BOUGHNER (VE3IM), R.C.A.F.
 W. L. SMITH (W3GKPK), 10110 Pierce Drive, Woodmoor, Silver Spring, Md., U.S.A.
 F. LUCOTY (FRS.58), c/o 61, Clinton Road, Redruth, Cornwall.
 CPL. S. SEVERINI (FRS.59), Czechoslovak Forces.

Strays

● John Lucas, 2793, of Leicester, informs us that his son, VS2AR, is now with the M.O.I. in New Delhi. Prior to the fall of Singapore, 2AR was with the Malayan Broadcasting Corporation but when the danger grew he succeeded in escaping to India. Mr. Lucas regrets that he has, as yet, received no news of VS2AK.

● F. G. Hoare, G2DP, 6 Dunheved Close, Thornton Heath, would like to hear from VE3KE, as he has some photographs for him.

● Reg Adams, G2NO until recently London Manager of *Webbs Radio* has recently joined the I.S.R.B. He is now living at Three Chimneys, Chislehurst Road, Petts Wood, Kent (Phone, Orpington 700), at which address he will be pleased to receive visitors. He asks that his 73 be conveyed to all old friends at home and abroad.

EDITORIAL—(Continued from p. 33)

that many hundreds of others are engaged on work of national importance.

Little has so far been written about our members who are serving in the King's Navee, but for the benefit of all who have joined the Society since September, 1939, it is recorded that for several years prior to the war many of our ablest experimenters were serving in the Royal Naval Volunteer (Wireless) Reserve—a Reserve launched with the co-operation of the R.S.G.B. With the sinking of the aircraft carrier *Courageous* in September, 1939, the Society mourned the loss of two Wireless Reservists—old timer Jack Hamilton, G5JH, and young Ken Abbott, G3JY.

The record of those who serve in khaki is no less brilliant than the record of those whose business carries them into the great waters of the earth. Everywhere Society members are upholding not only the traditions of their Regiment, their Corps, or their ship, but also the traditions of Ham Radio. In the Far East, and the Middle East, in Flanders and in France, in Norway and in Crete, in Malta and in Gibraltar, on the oceans of the world, in fact, wherever the fight has been thickest the Ham Fraternity have, by their example, shown that "shack lore" is capable of application to sterner tasks.

As we begin the fourth year of this mighty struggle let us as members of a Society upon which the sun never sinks, pledge ourselves to preserve that Spirit of Unity within our ranks so that when the Great Day dawns, we can go forward as a united body determined to play our part in seeing that this hobby of ours shall never again be sullied by the horrors of war.

May next September find the world at Peace, and the dust swept from our shacks. Then for a Convention that will leave all others "stone cold."

J. C.

DISTRICT NOTES—(Continued from page 45)

at 3 p.m. F./Sgt. Gordon Spencer, G4LX, who is now in Ceylon, writes to say that so far he has met no hams. A recent visitor to the District was Ft./Sgt. Broom, 2CWW. Sgt. Whittaker, 2FXL, expects to be on the big boat soon, while Sgt. Graham, G4BJ, is now overseas, destination unknown. Another visitor was GM3HY, who is stationed in the North of Scotland. No news has been received of GM6SJ since the fall of Singapore.

"B" District.—A letter has been received from new member, F./Sgt. Inglis, 5244, who is in the far North of the District and looks forward to meeting members.

"H" District.—Another long report is to hand from the D.O., and also a letter from 2FQO. GM4GK is evidently enjoying English life, and reports being in close contact with 6NX and 4MM. 3XO and 2929 are apparently of the one mind that there's nothing like "a life on the ocean wave," the latter being none other than our old friend "Tubby." 3DD and 2FQO bobbed up with long letters, to say they are doing their bit on the Home Front. 8MQ is sojourning in Wales, but by the time this appears in print, he may have wandered on elsewhere. All of us congratulate 6JJ on his promotion to Sq./Ldr. Bill is once again back in Scotland. We learn with regret that Archie Wales, 3644, has been missing since the fall of Singapore. Any news will be gratefully received by his parents. 3LG is in the Middle East while 3SW got as far as India. Both of these bright lads are in the R.A.F. 3ND went astray while at home, but it has now been discovered that he has sneaked away quietly abroad (as Majors do, at times!), and there is no QRA to hand yet. 2NQ has made contact with VE3DF, G8RI, 6LL, 3PJ, 3NM, 2PB and 4046. The D.O.'s recent suggestion appears at the moment to be viewed favourably, but 2929 considers that it would be better to add it all up and make it an annual affair. Probably he is not alone in this idea. What about you chaps who have not voiced an opinion? Promotions are of interest to us all, so please let me have them, boys. See you all again next month! (via GM2NQ). GM6ZV.

Good Work, Captain

● Friends of W21XY will be glad to hear that her husband, Captain Hall, has recently received the congratulations of the Australian Broadcasting authorities upon his achievement in recording their transmissions in New York every day for the past 12 months, with an exception of three days when the aurora prevented reception. We understand that due to the illness of her husband W21XY has for some months past been responsible for the recordings.

EXCHANGE AND MART.

ALL KINDS OF PRINT.—Send your enquiries to G6MN, Workshop.

FOR SALE.—G.P.O. Type Relay, glass top, wooden base, new, cost £10. Any offers?—G8GN, Yew Tree House, Cheshire, Staffs.

RME 69, L.S.1 Model, with DB 20 in excellent condition, £45; or would consider Sky Champion in part exchange.—74 Dorchester Road, Poole.

SALE.—E.C.R. 10-valve Communication Receiver, 9 to 88 and 220 to 535 metres, 4-bands, BFO crystal, R meter, complete with valves and cable and plug for power-pack; but requires power-pack and speaker, £29. Carr. paid.—BR82809, High Street, Moffatt, Scotland.

SALE.—Trickle Charger, 6 v., $\frac{1}{2}$ amp., 22s.; Watch Type Meter, 8 v., 120 v., 8s. 6d.; Ferranti Multirange M.C., 100 ma., 10 v., 250 v., 37s. 6d.—CHRISTIAN, 8 Woodkind Hey, Bebbington, Cheshire.

VALVES unused and unboxed Brimar, (8) 6F6G, RCA, (1) 6F6, (3) 6H6, (5) 6K7, (1) 6J7G, (2) 6R7, (2) 6K8, (3) 6SK7, (1) 6S17, (2) 6K6G (1), 1626. Offers or exchanges. Wanted (1) 25Z5.—Box 79, PARKS, 121 Kingsway, London, W.C.2.

WANTED.—Good Communication Receiver, Test-meter, Oscilloscope, Amplifier or parts, A.C. Gram. Motor. Few Potentiometers and Bulgin Multiple Switches.—6MI, 131 Bloomfield Road, Blackpool.

WANTED.—Hallafter SX28 Receiver, new or used. Will pay more than list price. Approval.—DOCTOR TALBOT, "Woodburn," Livermead, Torquay.

WANTED.—Tubes 6A3, 6B4G, Mazda TP.25. Transformers Thordarson 5741, 5870, Stancor A4206, A4208, National HRO Senior in perfect condition.—MARK, 114 South Street, St. Andrews, Fife.

WANTED urgently.—Any or all Coils, Nos. 10 to 14 for National DC/SW3 Receiver.—BARLOW, G3QX, "Kings Halt," Dawstone Road, Heswall, Wirral, Cheshire.

WANTED.—Two 6F6 Metal Tubes in good condition. Write with price.—RICHARDS (2AAW), 3 College Street, Burnham-on-Sea, Somerset.

WANTED.—4-h.p., 230 v., A.C. Motor; Meccano Electric Motor, 20 v.; also Clockwork.—CHRISTIAN, 8 Woodkind Hey, Bebbington, Cheshire.

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