

## THE OFFICIAL ORGAN OF THE B.B.C.

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Two Pence.

OFFICIAL PROGRAMMES

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## WHAT'S IN THE AIR?

## The Church and Broadcasting.

By J. C. W. REITH, Managing Director of the B.B.C.

SUCH great interest was aroused by the recent broadcast of Rvensong from St. Martin's in the Fields, and such exceptional approximation expensed, that we are endeavouring to make arrang ments for the regular translicism of a complete service, acceptable to all denominations, probably once a month to that with. It is hoped that a suitable service can be provided in each town, enther than that one should be simultaneously broadcast.

The matter is being discussed with the Advisory Committee on which practically all the Churches are represented. It is, of cours, a delicate subject, and one of no small difficulty. Our gratitude is due to the Visar of St. Martin's for his co-operation in the initial venture. It has not passed without some unfounded criticism being directed against himself. His broadmindedness and enthusiasm must however, have brought their own reward in the letters and masses of appreciation with which he has been practically overwhelmed.

Many months ago, when we were anxious to become as a certain service of great public interest, the objection which caused the refusal was that it was unfitting that a saired service should be received in any sort of place and under any sort of coronastances. It is difficult to follow that The mature of the service cannot be propoliced by any irreversor in reception, and one would have imagined that those to whose care is committed such responsibilities would welcome the opportunity of extending the influence of their beneficent activities into quarters otherwise inaccessible. Nothing but good can result.

The other objection one hears is that people will be kept from going to church if they can

hear a whole service in their own homes. Even if this be so, one can only judge on final results, and these are surely not dependent on attendance figure. Few achievements have produced so much appreciation, and it comes particularly from these who are smable to attend church at all.

The week we send relections from the upcers. Treatment Isode. Stepfined and 'Houses and Gretch.' We are also going to try in London the effect of a regular short reading from famous poets. In the recent interview published in "The Radio Times." Mr. A. S. M. Hutchiuson made a suggestion to this effect. We have done something in the same line already, and we should like to know if it is acceptable now. All stations will be patting in this feature on trial at an early out. Some already have it.

The new studio at SLO is in operation. It has four these the capacity of the old one, and damping a only carried out to about a quarter of the extent. From this room precisally all the munical transmissions will take place used and instrumental. Much larger or he can be necommediated, and, as has been proved in the experimental broadcast from it there is a more pattern effect conveyed by the limited color.

In a few months it may be provided to use the two stadies at the same tion on different wavelengths. We have at last secured permission to proceed with the creation of the new transmitting station, the site of which was approved by the Poetmaster-Ceneral over six months ago. The delay was due to the difficulty of gettor; the plans and the site passed by the local authorities.

(Cantinued overchaf in cal. S.)

## Readers' Own Humour.

## Funny Stories Told by Listeners.

N recent issues of The Radio Times readers were asked to send accounts of funny things they had seen and heard in connection with wireless. This wook we print a further selection, for which payment will be made :-

A little girl was travelling in a crowded compartment of a local train the other day when her excited chattering provoked a severe reprimand from her mother.

I won't be quiet," replied the child, decessively: "daddy isn't listening row!"—
H. WHEKLER, Wenyoe, near Cardiff.

#### Encore!

A typical collier had been invited to listen for the first time. At the conclusion of a dance played by the Savoy Havana Band he applanded loudly and remarked: "Wind it up again, guy nor! Let's are that one again!" -J. Wood, Norton Canes, near Cannock, Staffs.

While we were listening the other evening, I noticed my little boy looking very earnestly at my valve set.

As he evidently had something at the back of his mind, I said: "studying it out, Brian?" I was just woodering," he answered, "if I put the sorial wire where the earth wire is. and the carth wire where the serial is, would the words come through backwards?"-P. Bougerr, East Boldon, near Newcastle-on-Tyne.

A loud-speaker in a shop window had attracted a large crowd of pedestriams. One gurl pointed impocently to a sign which read "accumulators charged," and said, rather nervously, to ber friend: Does that mean that they charge people who gather around to listen?"—W. H. SEINNER, London, S.W.

My little girl happened to wake up the other night just as I was delightedly listening to America. Her phones, which always hang at how bedside, were immediately classed to her ears and she was told that America was speaking.

After a moment, she said, with a bewildered look on her face: Minimy, is there a war on in America! —Mis. Rowners, London, W.

A wireless enthusiast invited his brother, who lives in a wild part of the country, to listen. When the Savoy Orpheara were playing the latter was handed the headphones. When the music was over, he heard a clapping poise which he thought was someone smacking the 'orphase'! So, forgetting himself com-pletely, he shouled into the 'phone. Leave the kids alone! They were playing their best! - Q. Yovno, Scaton Burn.

Wathing near a hospital with a friend not long ago, I remarked on the sweet, heavy odoor wafted from some of the windows.

"All heapitals smell like that," said my

friend. "What's the reason!"
"Ob. I replied, "chloreform, or other, i

"I'm sure it must be choloroform," returned my friend, seriously, "for I've never naticed the dichtest smell when broadcasting is going on, and other is what they make wireless waves out of."-W. L. Baillie, London, S.E.

## What's in the Air ?

(Continued from the previous surge.)

By the end of January the automatic time signalling from the Royal Observatory well we expect, be in operation. The success and the enormous interest evoked by the broadcasting of Big Ben from all our station has set in investigating the possibility of regular frommaxima of this method of time-keeping as well. So we may have the scientific and the remantic both.

I am asked to express the gratitude of the Programme Staff, the Uncles and Austr and Amounteers in particular for the most kind and almost embarrancing natures in which gifts of all kinds were showered on them of Christimes time. The Aberdeen Station Director kept a record of these tokens of good-will, and forwarded the het to Head Office. Our Mr. Smith. Press Representative—happily restored to us after his Parliamentary ventures—sensed upon this, presumably with a view to using it in advantage if ever he hears aspersions and on the generosity of Aberdonnia again he halls from those parts. Perhaps as a guide to local acceptability of programmes this criterion may compare with the more natural one of lineac-usues. If other Station Perceturs desire to via with Aberdeen, they had better communicate with Mr. Smith at case.

By the time these words appear in print Parliament will have been formally opened by His Majesty the King. The Speech from the Throne will either have been broadcast, or it will not have been broadcast. This is of course, a platitude. But there is occasionally a great deal behind even a platitude, and we must leave it at that for the time being.

## Irish Song. Famous

## The Story of "Kathleen Mavourneen." By A. B. Cooper.

"KATHLEEN MAYOURNESS of all Irish by many as the greatest of all Irish by many as the greatest of all Irish ATHLEEN MAYOURNEEN" is regarded [ the land, and, as he was a commercial traveller Its charming words, so truly lyrical, 50 Digs were written by an Irish woman, and its equally

charming and fitting air by an Englishmon. "Mayourmen," of course, is not the surmane of the fair Kathleen, as some suppose, but simply means "Darlieg." Thus the title of the song, in plain English, is Kathleen my Darling. But was there ever a real Kathleen, as there was a real Annie Laurie, and a real "Prorty Jane"? I fear no one will ever know, for our information concerning Mrs. Julia Crawlord, who wrote the verses is of the peanticst.

## A Little Known Poetson.

Mrs. Crawford was born in County Cavan, but her family removed to England when she was young, and she lived the greater part of her life in Wiltshire. Nevertheless, she never seems to have lost her deep attachment to ber notive Erin, for she wrote many songs, and they are aboust all Irish songs. In the year 1840, m fact, she published a volume of Irish sunge, set to music by Frederick Nicholis Crouch, which included the famous Kathlern Mayourneen, which had originally appeared, as had most of the others, in a magazine conducted by that famous povelint of the sea-Captain Merryat.

Like a good many other composers of good mose. F. N. Crouch seems to have got more

kicks than ha'penes from life.

One can form a mental picture of the way the great song came to him. It was on the banks of the Tamur, in Dovon. That was before the railroad ran into all the nooks and corners of

at the time, travelling for a Cornhill firm who were metal brokers, he was riding on horseback.

#### Composed on the Impulse.

He had lately men Mrs. Crawford, and had obtained her permission to set her lovely words to music, and one can imagine the impulse setzing him as he jogged along, his alighting and sitting by the river side, and crooning to kimself the famous words :-

Kathleen Maxonemeen, the grey dawn is

breaking.
The horn of the hunter is heard on the hill; The lack from her bright wing the light few

is shaking.
Kathleen Mayourneen what! shandering still!

Oh, hast then forgatten how soon we must

Ob, hast thou forgotten this day we must part 7

It may be for years, and it may be for ever. Ob, why are thou silent, then voice of my

Kathleen Mayourneen! Awake from thy slumbers.

The blue mountains glow in the sun's golden Night.

Alt, where is the spell that once bung on thy numbers ?

Arise in thy beauty, thou star of my night. Mayourneen, Mayourneen, my sad tears are ralling

To think that from Erin and then I must part It may be for years, and it may be for ever, Then why art thou mlent, thou voice of my bears 7

We have mixed a lattle imaginative reconstruction with the incident, but we have Crouch's own account of the composition of the song. "The words," he says, "instantly attracted instantly attracted my attention by their purity of style and diction. I sought out the authoress, and obtained her perotission to set them to music. Leaving London as traveller for a Cornbill firm, whilst prosecuting my journey towards Saltach, I jotted down the meledy on the historic banks of the Tamar.

## Succumbed to Passination.

"On arrival at Plymouth, I wrote out a fair copy of the song and sang it to Mrs. Rowe. the wife of a music publisher of that town. The melody so captivated her and others who heard it that I was carnestly soluted to give it for the first time in public at her hurband's opening concert of the season. But certain reasons obliged me to decline the honour.

I returned to rest at my hotel, and, rising early next morning and opening my window, what was my surprise to see, on a hearding right opposite, a large placard on which was printed in the birgest and boldest type:
F. Nicholls Crouch, from London, will sing at
P. E. Rowe's Concert. Kathleen Mayourneen," for one night only '1

Amozed and confused at such an unwarrantable and unauthorized amounteement, I harriedly completed my toilet, took my breakfast, and reshed off to Mr. Rowe's waterbones. But, despite my reluctance, and overcome by the entreation of the fascinating Mrs. Rowe, appeared and sang the song to a crowded andience, with the most enthusiastic apphose."

Perhaps, like many another man of genius, Crouch had not a good head for business, for he parted with the copyright of "Kathleen Mayourneen" for flo,

["Kathleen Mavourneen" will be sung by Miss Margery Phillips of London Station on Sunday afternoon, January 20th.)

## Learning By Wireless When Asleep.

Remarkable Experiments on the Sub-conscious Mind.

DR. H. GERNSBACK, writing some Years ago in Science and Invention, pointed out that there was every probability that the homen mend could be mached while a person was select, and anguested that a machine might be used for educational purposes during this period.

To many people, this suggestion first appeared funtastic, but the reasoning was so good that experiments have since been made to test the possibility of teaching by wireless while the pupil is anleep.

It is now well known that what is commonly termed the sub-consolous mind never sleeps.

The sab-consessous mind, or, more accurately, the meconscious mind, is recognised to be the store house of our memories. Without this store house it would be impossible for us to accomplish or control anything, as it furnishes m with the information—the data based on experience, which guides our actions.

The Part of You That Never Rests.

Our memory has been described as the most wonderful filing system that is known, and roubles us to perform the greatest portion of our daily acts without any conscious cilort. In sleep our memories are alive and active, whilst, apparently, the higher faculties of the miad are dormant. Dr. Gernsback, in his article, based his suggestion on the knowledge that the sub-conscious mind never sleeps. The problem, he stated, was to devise an instrument which would rouse the sub-conscious mind and make it function during the sleeping period. The article attracted the attention of Mr. J. N. Phinney, described as the chief Radio man of the United States Navy, who, as a result, began a series of experiments at the U.S.A. Naval Station of Pensacola\_Florida\_

Tried on a Dector.

In a recent issue of the Public Ledger, of Philadelphia, Mr. Phinney is reported to have declared that he had conclusively proved from actual results obtained that many difficult subjects can be easily learned while asleep. I have become firmly continced," he said. " from these observations that, as eminent psychologista state, a part of the human brain continues to function while the body and the unconscious brain remain dormant, and that the device explained by Science and Instanton, therefore, will do its work. This system was first tried on a doctor. About a war ago, twelve medical officers of the U.S. Navy started our flight course. They were to qualify as pilots, taking all ground school subjects, including radio. One, who was a noted specialist in psychology. expressed a willingness to try my method, after I had explained the foregoing ideas.

An All Night "Sitting."

"I equipped his bedroom with a key and the regular aviation radio telephore head set, and myself and assistants sent radio code to him all night. We started at 10.30 p.m. He had copied with pencil about 30 minutes and then retired, dropping asleep about an hour later. He had acquired a speed of fifteen cipler groups per minate in class, but had never copied plain English words or sentences.

In the morning he was able to copy radio with much greater case, and while no definite gain, he expressed himself as entirely convinced of the practicability of the idea, and the result of his report, naturally, gained us the covoted opportunity to conduct further experiments with official sanction.

"I was also assured that, if further experi-

ments were equally successful in demonstrating my claims, a request would be granted for the special automatic sending apparatus I had so long desired in order to incorporate my 'Learn while you sleep' method of instruction here.

Wonderful Results.

"It was now proposed to develop my system as a very material aid to the present system. Our prescribed syllabna of instruction covers a period of twenty one weeks, and the student is required to make a predetermined rate of progress week by week in order to remain in the class. Those students whose rate of progress had been consistently unsatisfactory for some time, and who would, therefore, have been dropped from the class within the week, were told something of my successful experiences with my 'Learn While You Sleep' system. Naturally, they jumped at the chance. Seventeen students volunteered for this experiment with the following results the next day. (1) One of the seventeen copied five words faster than he had ever been able to copy previously; (2) Four copied two words faster, and one nearly two words faster; (3) Three copied one word faster and out only half a word faster.

The Instructors derive some amusement to compensate for their loss of time and skep in watching the facial contortions, restlerences and muttering caused by the induced dreams of the students. Errors and erratio sending cause restlessness and muttered protests. Stoppage of sending when changing operators will arouse

This system is now being tried out on officers of the class just started under much more favourable conditions, real beds replacing the wooden benefits and tables. Students are no longer confined to last chance tests."

How B is Done,

The method of teaching is quite simple, and has been described by Dr. Gerneback himself. "An ordinary phonograph would, of course,

not do, There would be too many grating. jarring noises which would distruct the sleeper's attention. We must have a mechanism that is soft in action, gives no extraneous noisce, and will not wake up the sleeper. We have such an apparatus in existence to day—the telegraphun-



BROADCASTING MADAME BUTTERFLY.

Voice in 'phones (interpolating opera): "Batterfly has just entered."

Its action is based on a steel wire, which is fed across and very near to the poles of an electro magnet; the amount is polarized by currents derived from a telephone, and the wire to polarized thereby in an almost infinite number of exactly corresponding poles. On moving same wire in front of the same or aziother magnet, the induced telephonic currents are made to act on a transmitter, The telephone receiver has the message repeated in it from the transmitter without any grating or jarring

From History to Romanos.

"By means of a load-talking or amplifying arrangement, the voice or sound may be amplified to a loud enough degree so that it will make a lasting impression on the sleeper.

The machine contains a number of recis, each of which has enough wire to last for about one hour of continuous service. Each reel comes into position automatically as soon as it is 'played'; thus eight reels will give the sleeper enough material for a whole night's

Whether he wishes to be entertained, or whether he wishes to learn, depends upon himself. It probably would not do to learn history for eight hours at a stretch, for the mind probably would not absorb it all. So we might awatch from history to remance, then we might have a context for an hour to get accustomed to the music of the latest opera, then switch back to mathematics, if necessary, and arrange the programme as we may see fit, and so as to suit our own individual taste.

Effects on the Sleeper, Describing the effect upon the pupil, Dr. Gernshack says

At the first attempt, the alcoper probably would wake up startled because he was not accostomed to it. It probably would take a week before he could accustom himself to wear a headgear attached to his head by means of a heavy rubber hand and before he could submit to the annoyance of it as well.

"After he became accustomed to the headgear, as well as to the unfamiliar hoises, it is very probable that his sub-conscious self would take note of what was going on while he slept. Thus, were it music, or the spoken voice, it seems almost certain that in time a laston, impression would be made upon the brain through

the auditory nerves
It would be a matter of education. Probably, for the first few months not much impression would be made upon the sub-conscious self; but by and by, the hearing sense would be sharpened to such an extent that the impression would not only reach the limin centre. but would be so permanent that the houser getting up in the morning would remember something of the nightly procedure.

Learning Automatically.

" Every time you see a typewriter, you write absolutely unconsciously, or, rather, automatically. The expert typist does not have to stop to think of each key when writing. It is done automatically, and she pays not the elightest attention to the keyboard while writing. It is a habit formed by long experience. It may be that the same thing will be true of sub-conscious learning while you sleep."

Whether this method of teaching will ever

be adopted is a matter for apcoulation. It is certainly an ingenious suggestion, and while the ultimate use of wireless owned yet be known, it is interesting to note the kind of experiments that are being undertaken aerose the Atlantic,

regarding its educational value.

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## Hänsel and Gretel.

## Next Saturday's Covent Garden Opera, described by Percy A. Scholes.

HUMPERDINCK was the composer of Rangel and Gretel. He died a couple of years ago, at the age of sixty-seven. Rangel and Gretel was first performed just thirty years since, and it at once became popular all over Europe and in America. People love the simple, pleasant old fairy story, the old folk-melodies that constantly creep into the music, and the Transformation Scene in Act II.

This opera is, of course, a special favourite with children, who next Saturday will have a strong claim on the family head-phones, and as only Acts I, and II, are to be broadcast, the performance need not keep them up so very

The synopsis given below has been arranged in such a way that if it is kept before the eyes whilst the opera is being performed, the listener will have a fairly good idea of what is happening

As each character enters for the first time, his or her name is given in capitals.

#### ACT L

Scene I. At Home. In a poor room the boy HANSEL (pronounced Hensel; Mezzo-Soprano) and the piri GRETEL (pronounced Graytel; Soprano) are seen. They complain of honger.

O Gret, it would be such a treat. If we had associating mee to est, Eggs and butter and suct pasts. I've almost forgotten how they tests .

So sings Hansel, and Gretel tries to obest him by showing him a jug of milk, out of which their mother, when the returns, will make a blanc-mange. Hämsel cannot wait. He begins to tasto it.

Gretel then tries to keep har troublesome young brother out of mischlef by giving him a dancing lesson, and the children sing as they

Scene 2.- The fun gets noisier, and then, when it is at its beight, in comes the MOTHER (Contraito), whereupon—sodden quiet! She scolds the children for neglecting their work, and, in her anger, accidentally overtures the jug of milk which was to have provided the family supper.

Weary and distracted, she drives the children out to gather wild strawberries, and, with a

prayer for help, drops saken, exhausted.

Scans 3.—A gay song is heard, and there enters the FATHER (Baritone). The Mother awakes and expresses her discouragement; the Father goes on merrily singing, and at last shows the cause of his happinens. He has sold the brooms he had made, and bought ham and butter and floor and samages and vegetables and teasuch provision as the cuttage has not seen for many a long day.

Then the Father asks where the suildren are,

and on learning that they have (so near nightfall') gone into the forest, he is alarmed. He takes, shuddering, of magic, and sings an corio song of a "gobbling ogress," who lures children and bakes them in her oven.

With a cry, the Mother, wrought up by this margative, rushes out of the door to save her children, and the Pather follows.

#### ACT II.

Scene I. The Forest, Sunset.-The children are econ, Gretel making a garland of wild roses, Hansel looking for strawberries. Gretel sings a quiet song, "There stands a little man in the wood alone." Hansel takes up the garland,

and crowns her as Queen of the Wood- He. courtier-like, presents her with his basket of strawberries; they both begin to est. The Cocketo is heard, and the children sing an old song about him.

A friendly quarrel arises. Hänsel snatches the basket and finishes of the strawberries. Gretel, horror-struck, reprosches him. begins to grow durk.

boon the light has quite gone. The children are frightened. They see faces grinning from every tree. Hinsel calls, and celo answers. The children orough together.

Seems 2.—The SANDMAN (Soprano) quietly creeps to the children, singing his cong. He strews sand to their eyes. Half askep, they sing their evening prayer :-

When at night I go to sleep Fourtees angels watch do lossp-

Then they fall into slumber, locked in one another's arms. The stage is now completely

Scene 3. A Scene without Words, but with Mass. A light shines through the mist, which rolls together into the form of a staircase, down which are seen descending FOURTEEN ANCELS, two and two. They place themselves around the children, and move in a stately dance. The Curtain falls,

#### ACT III.

As this Act is not to be broadcast it used not be here described. Most people know Grimm's Fairy T. les, and will remember all about the herrithe Witch with her house made of swentmeats, her capture of the two children, the danger they run of being made into gingerbread, their happy escape, and their joy as they used the magic signs learns from the Witch to release the crowd of other hoya and girs whom the Witch had taken prisoner.

In listening to Hannel and Gretel, one one car

for the vocal parts and the other for the orthestral accompaniment. The latter is woven together out of lovely folk-tunes and other melodies, much as a Wagner prehastral more is weven out of his "Leading Manis." The translation of the librate used by the B.N.O.C., and quoted in the present article, is that of the late Constance

[Acts One and Two of this opera will in broadcast to all stations on Salurday, January 26th.

## Wireless Wisdom.

CERTAIN scenes in the theatre are so extraonlinery that they may even be true-truth being stranger than fiction,"-Aucumand Han-

Continuous novelty joined with improvement is the life-blood of a nation."—The Ry. Hos. Sm William Bult, Bart. M.P.

\* 9 3 "RESIGNATION under grave illa la only a virtue where these difficulties reamot be re-moved."-REV. H. ANSON.

"WE all know by experience that we are much happier when we are being kind."-

"Hunous is not opposed to seriousness but to duliness."—Rev. O. W. Kens.

## Why We Changed Wave-Lengths.

## By P. P. Eckersley, Chief Engineer of the B.B.C.

"YES, why did you bother?" exclaims the disgrantled listener. "Why, indeed?" says someone who has heard nothing since. Let me try to explain.

The list as it was first presented was as

| London      | 350 |
|-------------|-----|
| Bearnemouth | 385 |
| Cardiff     | 435 |
| Birmingham  | 476 |
| Aberdeen    | 495 |
| Manchester  | 400 |
| Newcastle   | 350 |
| Clambow     | 420 |

Now, in general places close together geographically were a great distance apart in wave-length. Birmingham and Cardiff close together, but forty metres apart. Glasgow and Manchester a long way apart—20 metres. The list is not perfect, because the jamming situation also came in. Birmingham is our only inland station, and therefore it was possible to put it near the jamming. Aberdeen is a constal station, but there is not a great movement of ships in its vapady. The shorter wavelengths are more easily shielded by hills-hence Cardiff on 435 metres, London a short wave-Bournemouth was chosen to be least jammed. and was placed between 350 and 450. the scheme was perfect, but it was thought that, by a further separation of stations and by the shoice as above, the service as a whole would be largely benefited

## A Word to London's Crystal Users.

London was put down at the bottom to give it freedom on one side—to prevent it, in fact, being sandwiched between other stations.

What happened ?

London - a chorus of complaint from (mostly) orysial mers that London was too weak to hear. Once and for all dear crystal mors, London sus not as strong, and if you had used a series oncenser, I think you would not have one plained. I was frankly amazed that a 3] per cent change in wave-length should have so seriously upset so many sets. The next com-plants came from London hateners at a distance, complaining that there was far more jamming on 350 metres. Now, I had some investigations made last an over in various localities, and reports showed that 385 and 350 made practically no difference. Is is that other stations have grown up, or was it that the sets were not so efficient on 350? At any rate, the complaints were so numerous as to make us realize they were serious and no kile chatter.

## Cardiff's Grumble.

From Cardiff-Jamming! Jamming! Jamming! Not a letter in favour of the change.

So we tried again, and changed London back to its original, and Cardiff was swopped back to its usual. This made it imperative to change Newcastle and Newcastle went to 435. Result -Louden happy, Cardiff moderately happy; but now (too late, alas !) lots of letters from Cardiff saying that 435 was their right wave ; although the jamming was certainly bad, the signal in the shielded areas was very much

Most serious however, and the reason that weathed with me most strongly, came the news that listeners in Wilts and Oxfordshire, accustomed to rely on Cardiff, couldn't hear anything for the harmonies of Leafield when the wavelength was above 350.

Now Newcastle's turn came, and they yelled at me with a steutorian voice to "for goodness"

sake" (as someone wrote and split one of the longest infinitives on record), "put it back to 400 again—the jamming was award on 435." With a deep sigh we obeyed, sandwicking Manchester in at 177.

So now they stand as follows :-

| Cardiff     | 350 |
|-------------|-----|
| London      | 365 |
| Manchester  | 375 |
| Rournemouth | 385 |
| Newcastle   | 400 |
| Glasgow     | 420 |
| Birmingham  | 415 |
| Aberdeen    | 495 |

and all the stations nearest together are nearest in wave length, and all the short waves are used in the hilly districts; London is sandwiched, and they are too close! But obviously the ideals I set out to fulfil did not take sufficient. account of the jamming situation, which is apparently the controlling factor.

## Suggestions Wanted.

Sometimen I wish I had the job of a thirdclass boiler-waster on a power scheme for supplying one house in the smallest village in Ruthand with electric light—then I bet the

bally boiler wookin't wash !

I really am very sorry to have disturbed you You may say I ought to have investigated further before making such drastic changes; but, truly, it is a little difficult to assess jamming in every locality—qui s'escom s'accome—but you are happy now, and I think we have, by an uncomfortable experiment, found the best COMPRODURE.

I like to feel that you and I make experiments and that, although I don't know you all personally, we still co-operate. Let us continue, then, to experiment, and when you have some tions for improvements, grouses, and so on, let's have it out.

## Be Constructive !

Talking of grouses, I wonder if some of you complainers will realize this. Criticism for criticism a sake does you no good, and does me no good—it is so easy to write: "Dear Sir,— Your show is rotten from A to Z, and you are the quintessence of rottenness," and then not sign it ur give address; but it does help so little. Please don't think I get a fot of such letters. but ah! I do get some, and they make me very unhappy. I love a good argument, and my best friends are those who have hit out at me. Remember, we can never improve unless you criticize, but let it be constructive, or it is no good. "It is easy to deatroy, but difficult to good. "It is easy to destroy, but difficult to build." Let no one think we are afraid of criticism (or even abuse !). We can only live by your on operation, so talk to us like a Dutch uncle when you see faults.

## The Way to Advance.

Experiment—the only way to advance! Whenever asmoone gets on idea and askn my advice, I always advise them to "try it." Who knows but that in the trying some new, interesting fact may not be brought to light?

A road looks inviting—who knows but round the corner the dust and the host will be for-cetten in a view of mountain take and hill undreamed of standing here ?

So forgive my experiment.

It is reported that a mother, while listening in Manchester, was able to recognize the voice of her son as he sang songs in Pittabueg, U.S.A.,

## THE MAGAZINE FOR THE WOMAN AT HOME



# THE ACID TEST

## STEPHEN McKENNA

AND OTHER FICTION BY

MAY SINGLAIR KATHARINE TYNAN J. D. BERESFORD KATHLEEN BONHAM

AND NUMEROUS OTHER CON-TRIBUTIONS OF INTEREST AND VALUE TO ALL WOMEN

> IN THE FEBRUARY NUMBER OF THE

## HOME MAGAZINE

ON SALE EVERYWHERE 1/-

## PEOPLE IN THE PROGRAMMES-GOSSIP ABOUT

Decided by Accident.



LISTENERS who have beard Miss Julia Larkins' clover child impersonations all admit that they are as nearly perfect as pessible. Indeed, before she became a wireless artiste, critics said of her hat our lad only to close one's eyes during her performance to imagine that a little child was actually

Miss Juni Landra. Who is an Australian, began her professional career as a high soprano, and it was quite by accident that abe decided to become a child Impresonator.

While spending a weak-sad with some friends in the country, she happened to play with their large family of children and pretended that she herself was a child. Her friends were so struck with her imitations that they advised her to become a child impersonator professionally, which she did with great success.

He Had Enough at Home.

MISS LARKINS told me of an aniusing experience also had while appearing for a season in Scotland. A certain man used to reme regularly to the connects, but whemever she appeared to do her turn, he used to get up and walk out and come back again when she had fireshed. She naturally thought that he did not like her performance, but one day she was introduced to him and asked him why he always avoided her turn.

Don't you think that my impersonations are good? "she required.

Oh yes, he replied, "they are too good."

Too good? Then why do you always go

Well, you see," he answered, "I have a big family of children at home, and their tiresome ways get on my nerves, and when I go to a show. I like to forget them.

#### Actor and Vocalist.



THE broadcasting of plays has received a great success in the hands Mr. Sydney Ramell whose dramatic company is well known in Birmingham. Mr Russell is now associated in the minds of many with operation and musical ventures, but before he took up na operatio career he had ofready established a posi-

the synony is and the self as an actor. He has played leading effect with Mr. Cyril Maude and the inte Mr. Lewis Waller, and he was also for some time a member of the celebrated E. H. Sothern and Julia Mariana accordance in A. and Julia Markowe organization in America.

In the British National Opera Company's productions he has made great hits with many of his character sketches.

#### Worth a Great Dual.

M R. RUSSELL tells a funny story about a shortsighted old woman who was fusing

about in the shap of an antique dealer's.

How much is that Japanese idel worththe one over there by the door ?" she saked the

"It's worth a very great deal, madam," was the raply. "It's the proprietor."

#### " Garman " Music.

MR. GEORGE HEWSON, who broad as a from Glasgow Station, has been relating to too some of his experiences while he was a member of Miss Long Ashwell's concert party in France during the war-

After finishing a show," he says, "I was sitting with some of the boys when one of them produced a pieue of music ha had 'inherited' from a German, with a request that I would give him an idea of the tune. I obliged no the banjo, much to the autazement of one of his friends, who exclaimed: Great Scott! Favey being able to play German music! He thought it was written in the German language!"

#### Soubreite and Soprano.

BEFORE taking up singing seriously. Miss Florence Macdonald Henry, who is to appear at Manchester Station this week, was a soubrette in an amateur concert party, and thereby hangs an amusing story.

One of her admirers, who was more enthusiastic than wall informed, on hearing a girl friend boasting of the high notes which she herself could sing, remarked: "Have you

"A soprano!" cchoed Mass Reary's admirer, in disgust. "No, she's a supporter, and that's much higher than a apprace."

#### A Ruse That Worked Too Wall.



Mr. WILLIE ROSSE

MR. WILLIE ROUSE, We the entertainer and concert party producer, who is to bread east from London on Thursday this week, tells one the following amount

A certain working man who lived on the side of the mad facing cust, was much troubled each morning by the sun pouring in at the window and woking

him earlier than he wished. He tried many devices to stop the glare from coming in, but all in vain. At last be decaded to blacken the window entirely. The first morning after he had done this, he woke up and looked at his watch and said : " Ah, another half-hour!" and went to sleep sgain. He woke again and looked at his watch and said:
Als, another ten minutes!" and went to sleep once more. The third time be woke looked at the time-dashed out of bed-dressed

burniedly—rushed out and met his forenian.

"Sorry I'm late, sir," he carbinned.

"Late!" shouted the forenian. "Where were you on Monday and Tuesday?"

## " Sacked " for Cycling.

WIRELESS artiste with interesting family connections is Mr. Tom Copeland, who sings at London Station, for he is a sun of the champion ploughmen of Scotland and a cousin of the famous Piper Findlater, V.C. Mr. Copeland was the organist at a Presbyterian church, in Dufftown, when only fifteen, "but," be tells me, "I got the sack for cycling on Sunday—and deserved is. I played Whan the Woary Seeking Rest 'covered with mud, having fallon off my bicycle before the morning service. Result-the srder of the best !"

In 1920, Mr. Copeland toured Africa, and he gave over a thousand concerts for the troops during the war. In the spring be is to tour Canada, Halifax, and Vancouver, and he will be much missed by listeners during his absence,



Mr. SHOUR WALLER.

BOURNEMOUTHS B popular tenor, Mr. School Waller, does not in the least mind telling a mory against himself, and relates on amusing incident that occurred when he was singing at an Army reacert during the war. After he had anno non a reice from the back of the hell called out; "Chuck the bounder off!" Innuedistely the Padre got up

and demanded an apology, saying that otherwise, he would stop the concept. As no cue came forward, he was just about to promounce the concert at an end, when a Soutsman in the audience shouled at the top of his vuice: "1 dinna ken who called the singer a bounder, what I would like to know is, who called the bounder & singer ?

## " Some " Golfer,

MISS RACHEL HUNT, the contraits in the Manchester Station Opera Company, is also an excellent goifer. She was golfing on one occasion with a friend who was very inexperienced at the game and who completely missed his first drive.

To hide her mirth, Miss Hunt had to turn her back, and when she looked round, she found that he was attempting the drive at his sall, which was about a foot in front of the line of the tion.

Sorely you know," she said, "that you must not drive from in front of the time?"

Oh, yes, I know that," he replied, lugurhelously, "but I am now taking my fifth!"

## Glosmy on Purpose.



MISS MARJORIE SCOON, contraito, whose sales and duets with Mr. Edward Hill are so much liked by Bourns-mouth listeners, tells me the following amosing in-calcut. "While waiting for my proofs at a photographer a," she says, " I was looking through some photos and came somes a w was our reason ing man. Turning to the

photographer, I said: gloomy he looks." " Yes," he answered, 'but that photograph

is to be used as a business advertisement."

" But surely, I said, 'it would be better for

his business if he didn't look so glum?"
"'Oh, no,' was the reply: 'Who'd employ a
griunion undertaker?"

## A Wireless Wolding.

AN event of interest to fisteners in the Manchester area took place on Christman Eve last, when Mr. K. A. Wright and Miss. Josefe Cornsols were quietly married at St. Cuthbert a Church, Sheffield,

Mr. Wright's work as Director of the Manchester Station in the early mouths of 1923 is wellknown, but perhaps the children will be most interested to know that Uncle Humpty Dumpty's bride war "The Cloud Lady" who played to them so often in the Kiddney Corner at 22Y.

Mr. Wright is now Assistant Director of the

## WIRELESS PROGRAMME—SUNDAY (Jan. 20th.)

The letters "8.B." printed in italics In these Programmes signify a Simultaneous Brondcast from the station mentioned.

#### LONDON.

|         | Organ Hecital,               |          |
|---------|------------------------------|----------|
| relayed | from the Concert Hall of the | Not once |
|         | Institute for the Bond,      |          |
|         | Great Portland Street        |          |

At the Organ WILLIAM WOLSTENHOLME,

| Deta. Bac.                    |            |
|-------------------------------|------------|
| 3.0.                          |            |
| Chural Song and Fugue         | H cuist    |
| Offertoire in E Flat          |            |
| Fagus in G (à la Gigue)       | Buch       |
| MARGERY PRILLIPS (Contr       | ulto).     |
| Golden Light " (Agous Dei)    | J. Bire    |
| Bois Epain                    | A. Lally   |
| CONSTANCE IZARD (Solo Vi      | olin).     |
| " Are Marin" and and a second | Schuber    |
| " La Preciouse"               | n-Kreveler |
| WILLIAM ANDERSON (Bas         | 55].       |
| " Redsupp Loren Stone "       | Diment     |

"The Lute Player" Attitues Pho Organ. Robimesque in G (in 15/8 (ime)) Allegretto un F . Wolstenhalme Finale in B Flat

Finale in B 5187 Margery Phillips

Kathleen Marcarneen " Crouck
Butterfly Wings " Mastegue Phillips
Easter Hynn" Frank Bridge
Constance Leard

Wiengarste

Romanes from Concerto Wengeski Slavonie Danes in G Minos Deorak-Kreister Minuset in F Handel

Allogen cantabile and toccata from Symptons No. 2 Wester 5.0.- Close down. Aunomory: R. F. Palmer. 5.0.5.30 - CHILDREN'S CORNER S.A.

from Unrdiff. Sunday Evening. M.SO .- Hymn : The Church's One Founds-

ition."

DR. LAVINGTON HART, Principal of the Angla-Chinese College of Tuentsia. Religious Address.

Hymn: "At Even ore the Sun was Set."

9.0. BRITISH COMPOSERS NIGHT.

S.B. from Cardiff.

Followed by

TIME SIGNAL AND GENERAL NEWS.

BULLETIN. S.B. to Uardiff.

Anouncer: C. A. Lewis.

#### BIRMINGHAM.

3.0-5.0. -ORGAN RECITAL S.S. from Lon-5.0-5.30. - CHILDREN'S CORNER S.B. from

Cordiff.

50. STATION ORCHESTRA.
under the direction of Joseph Lewis.
Overture. Coriolanus Rests.
Overture. Coriolanus Rests.

order the direction of Joseph Lewis.

Overture Corolana Retberry

EMILY BROUGHTON (Soprano),

Beeth, "Lo, the Angel of the Lord Recit, "Lo, the Angel of the Lord Recit, "And Sudenly"

Recit, "And Sudenly"

( The Messah ") Handel

Emily Broughton and Station Repetery Charac,
"Coary to God" ( The Messah ") Handel

THE REV. T. E. TITMUSS (Baptish Charach Spring Hill), Beligious Address,

Emily Broughton and Charac,

Aria and Charac, "Rejsice Greatly" | The Messah" |

Magnah ")

Orchestra,

Bymphony, "Pastorale No. 6" , Beethoven

Announcer Percy Edgar.

## BOURNEMOUTH.

3.0,5.0 -ORGAN RECITAL. S.B. from London 5.0 5.30. - CHILDREN'S CORNER, S.B. from

HITA RAMBERG ...... Violia DOROTHY PAICE ..... Violia DORBIE EDGE ..... Cello.

E. WILTON AINSLEY Plans

AUCHMOND BILL CONGREGATIONAL CHURCH CHOIR.
Conductor: Ence Watkins, F.R.C.O., A.R.C.M. Mynn, "Jesu, Lover of My Soul"... Parry 8.45.—THE REV. JAMES O'CONNELL. Religious Address.

9.0. By Babylon's Wave " Gouned Cores Gouned Cores Gouned Cores Gouned Cores Goune G

" Hamoresque"

35. Dorrie Edge (Solo 'Cello).

Godard 9.25. Hercense Ri

9.35. Rita Ramberg (Sole Violia).

"Chanson et Pavane" Comperia
9.45. Quartette.
Selection, "Lilac Time" Schubert
10.0.—NEWS, Relayed from London
Local Kews and Weather Forecast
10.15 Close down.
Apportunity 33, 31

Annouscer : W. R. Keens.

## CARDIFF.

3.0-5.0. ORGAN RECITAL, S.B. from 5.0-5.30 CHILDREN'S CORNER, S.B. to

B.15. ALBANY ROAD BAI'TIST CHOIR.
Clauductor Mr. W. Bill-rough.
Hymn. 'O Lord Win Formed M. L. Wene'
Anthron. 'Flerce Raued the Tempes.'
THE REV J. SANSAM ILES, Pastor of
Albany Road Raptest Church. Religious

Address.
Hymn, "Father, Who Art Alone Our Helper and Our Blay" (Tune, "Raleigh") Prost

## British Composers' Night.

STATION SYMPHONY ORCHESTRA.

STATION SYMPHONY ORCHESTRA.

Conductor: OLIVER RAYMOND.

Vocalist: GILBERT BAILEY.

9.5.—Introductory Cond.

1.—"Impressions of a Windy Day"

Molcolm Surgeons.

(Repeated by request)

## WAVE-LENGTHS AND CALL SIGNS.

LONDON (2LO) - - 365 Metres ABERDEEN (2BD) - 495 BIRMINGHAM (5IT) = 475 **BOURNEMOUTH (6BM) 385** 27 CARDIFF (5WA) - - 350 10 GLASGOW (5SC) - 420 100 MANCHESTER (2ZY)- 375 20 NEWCASTLE (5NO) - 400

11 - a Miniature Fantany for Strings (b) " Puck's Micant" Herbert Housells

III -Songs (selected).
IV -Concerto for Plute, Obse and Strings
Gaster Helst.

V - Chrisntal Suite, " Boni Mora Gustav Holst

VI -Songs (selected).
VII.—Symphonic Variations, "Three Blind Mice" fine! Halbrooks (Repeated by request.)
NEWS, S.R. from London.
Announces: A. Carbett Smith.

## MANCHESTER

3.0-5.0.—ORGAN RECITAL. S.B. from

5.0 5.30 CHILDREN'S CORNER. S.B. from

8.0 -SIDNEY G. HONEY : Talk to Young

D-SIPERI G.
People.
People.
St. THE YERY BEV. MONSIGNOR F.
GONNE, M.A. Principal of St. Bede's College. Religious Address.
(45. EMILY SEDDON (Soperato).

Elimbeth's Projer" ( Tannhamer")

Wagner

Schrift's Song Greg

Solveig's Song Grieg
AMY BUXTON NOWELL (Elecutionis)
Four Salt Water Ballads Massfield
HARBY HOPEWELL (Bardons)
Recitation and Air, "The Lord Worketh
Wonders"
Handel " How William My Paternal Love Hundel

Ombra mai fu How From Mighty Kings He Took the Spoils

Any Buston Nowell.

Scheeted Songe.

Harry Hopevell.

Alleten
An Old Socred Lullally Corner

Samuel Spurgeon.

Romance in F.

Romance in F Beethuren
Serennts Amorose Breue
10.0 NEWS Relayed from London
Local News and Westler Forecast

10.15. - Close down

Announcer: Victor Smythe.

## NEWCASTLE.

3.0-5.0.—ORGAN RECITAL, S.B. Jeon London. 6.0-5-30.—CHILDREN'S CORNER. S.B. from

ordiff WILLIAM LAWS' TRIO.

Mainteen Ruck MALE QUARTETTE Read Dreak Break on The Cold Grey Dubinstein Rogers
Hymn, "When the Shades of Evening Fall"
8 45 —THE REV. W. A. S. KENNEDY of All
Saints Church, Gosforth, Religious Address.

O. Quartette.

Hymn, 'When the Weary Sceking Rest."

"Halleigah"

"A Wet Sheet and a Flowing Sea."

"Lloyd

Trin.

"Andante Contabile con Variazione

Beethoren

LEONIE STORM AND WILLIAM LAWS
(Violin and Pinns)

Allegretto

10.16. - Close down, Anguenere C. K. Parsons.

## BROADCASTING

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and with alternam possibilities of oldstrong positions at 200 Missingers at the present time is about 200. In the Wireless Telagraph Service the commonwhite select at the present time is about 200 per annual plus free mentionance second Ship, which makes the took seminantation according to mark the present and Couractors when modified to a demands the free fermation densities of the decision of the decision of the seminantal by the College for approximations, as and when they occur. Positions are the available in the Rayal Air Form.

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# Glasgaw, Man., 3rd Dec., 1923. e British L.M. Ericason Mfg. Co., Ltd. London. Dear Sirs. It may be of interest to you to beaut that last night on my indoor perfol, with one of your new door perfol, with one of your new details sets. I was oble to tune out Glasgote within four miles from the Broadcasting Station, and get on direct to Bournemonth and London with such strength as to emobia me to muitch it through to lundupeaker. I consider this a very good performance os it was greatically clear from any interruption from the local station. Yours faithfully, A.B. Mir Co., Ltd. Lunden.



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VALVE RECEIVERS

## WIRELESS PROGRAMME—MONDAY (Jan. 21st.)

The letters "B.B." printed in Italics in these Programmes signify a Simultaneous Broadcast from the station mentioned.

#### LONDON.

3.30-4.30.—Concert: The Wireless Trio and Sanders Warren (Baritone). 50.—WOMEN'S HOUR! Ariel's Society Gos-lip. Story, "A Guft of the Gods," by C. Romaunt-James.

Consum James Stories Sabo at the Zoo," by E. W. Lewis, "Jack Hardy," Chap. In. Part I. by Herbert Strang. 6.15.—Boy: Brigade New 6.25.7.0.—Interval.

7.0.—TIME SIGNAL, AND 1st GENERAL NEWS BULLETIN, S.H. to all Stations, JOHN STRACHEY (the B.B.G. Laterary Urbs.): "Weekly Book Talk." S.B. to all Stations. oll Stations.

Local News and Weather Forecast.
30. POPULAR CONCERT
8.B. to all Stations are pl Coulig.
THE AUGMENTED WIRELESS

ORCHESTRA.

GRCHESTRA
Conducted by L. STANTON JEFFERIES
Diverture, "The Avendrans". Monekton
Value Sandrage". Corbin
Internation
JOHN COLLINSON (Tenor) with OrchestraQuestin o Quella" ("Rigoletto"). Ferdi
Ah, Mone of My Delight ("Persian
Carden")

Garden T ...

Orchestre.
Selection. "The Catch of the Season."

Three Dances, " Renry VIII."

A Comedian and a Barstone will Argue.

Orchestra.

Fantana on Melodies from "Fanta" Genued
Two Entractes, "Bells of St. Malo" Rimmer
Scienade d'Amour " Bion
Fox-trot, "Little Red School Bottse" Wilson

Breame " John Collinson

Greanse "D'Herdelst
Same sheet a Voice is Uniting "Tate
Macmatha" Macmatha "Tate
Macmatha" Macmatha "B. B. C. on
What is Economics?" N.B. to all Stations
except Candig
30—TIME SIGNAL, AND 2ND GENERAL
NEWS BULLETIN S.B. to all Stations.
Lo al News and Weather Foreraid.
45. Orchestes

Oreliestes. Selection, "Florestors A Comedian and a Baritone will resome their Argument.

Orchestra

Melodie Plaintive 
Swedish Caranatina March Seconders 10 30 -Close down

Aunouncer | R. F. Palmer

#### BITIMINGHAM.

130 4.30. Paol Rimmer's Orchestra, relayed from Lozelle Picture House.
5.0. WOMEN'S CORNER.
6.30.—Agricultural Weather Forecast.
KIDDIES CORNER.
6.45.—Boys Brigado News.
2.0.—NEWS. S.B. from Landon.
JOHN STRACHEY. S.B. from London.
Local News and Weather Forecast.

7 30 -- POPULAR CONCERT B.R. Nom

5.15. MR. E. ARNOLD WARD. S.B. from

9.30. NEWS. S.H. from London.

9.45.—POPI LAR CONCERT (Contil) S.R. from London.

10.30. Clase down

Announcer H Cert Process

#### **BOURNEMOUTH.**

3.45. Convert: The "6BM" Tria. 4.45. WOMEN'S HOUR. 5.15. KIDDIES HOUR.

5.15.—KIDDLES HOUR,
6.0.—Roys Bragade News
6.15.—Scholars Half-Hour; G. Gwest, B.A.
J.P., The Rad (fol Times,
7.0.—NEWS, S.B. from London,
JOHN STRACHEY, S.B. from London,
Local News and Weather Forecast
7.36.—POPULAR CONCERT, S.B. from

London. 9.15. MR. E. ABNOLD WARD. S.B. from

P.30.- NEWS. S.R. from London.

D.45.-POPULAR CONCERT (Centd.). 8.B.

30 30. Clase drawn.

Announcer : W. R. Keene. .

## CARDIFF.

3.30-4.30.- Palkoun and his Orchestra relayed from the Capitol Cinema,

5.0.-" SWA'S" "FIVE O'CLOCKS": "Mr. Everyman," Talks to Women, Vocal and In-strumental Artistos, and the Station Orches-tra, Weather Forerast.

102. Weather Forecast
5.45. THE HOUR OF THE "KIDDLE WINKS."

6.45.-Boys' Brigade News

## IMPORTANT TO READERS.

"The Radio Times," the official organ of the British Broadcasting Company, Ltd., is concerned salely with broadcasting programmes and the technical problems relating to their tenzismon.

Technical inquiries dealing with the reception of broadenst telephony, such as the types of sets to be employed, etc., etc., should NOT be vidressed to "The Radio Times." Letters from Readers concerning the Programmes and their transmission are

LETTERS FOR THE EDITOR should be addressed to "The Hadro Times," 8-11, Southampton Street, Swand, W.C.2.

LETTERS FOR THE B.B.O. should be sens to 2. Survey Hall, W.C. 2.

The B.B.O. wishes to announce that the planes used in the daily transmissions from all their Stations are of the following well-known makes: BROADWOOD, STEINWAY, WEBER,

7.0, KEWR S.B. Irom London, JOHN STRACKEY S.B. teom London.

Local Nov.

7.30-7.45 — Interest.
THE KINGSWOOD EVANGEL PRIZE SILVER BAND Vocalist WILVER BAND Vocalist WILVERD MILES (Test.).

7.45 — March. "B.B. and C.F." On Hours Overture. "Ray Blas" Mendels in 8.0.—Songs. (a) "Adelante" (Beetherset; (b) Recit. and Aria, "Love Sounds the Alarm" I"Are and Calater") (Hundels in 8.10.—Tone Poem. "Coroclams" Jakon Trombons Solo, "Jaywheel" 8 ton 8.25.—Songs. (a) "Pleading" (Sigor); (b) "Now Shoops the Crimson Patal" (Positiv).

8.35.—Selection. "La Travisia" Jeede Coroct Solo Solo Solo Ind. (d).

8.55.—PROFESSOR GRAHAM BROWN on

8.55. PROFESSOR GRAHAM PROWN on The Arms of the Welsh National School of Medican "

95.—Seege: (a) "A Dream of Leve" (Montoya: Philipsel: (b) "The Curtain Falls" (tiny D'Hordetor).

9.15 Selection, Rigoletto
9.30 NEWS, S.H. From London,
Local News and Weather Foreignt
9.50 Musical Switch

9.50. —Punce Monte. 10.14. —Close down.

Aunounces L. B. Page

## MANCHESTER.

3.30.4.30.—Concert by the " 2ZY " Orchestra-5.0.—MAINLY FEMININE. 5.25.—Farmers' Weather Forecast.

5,25.—Farmers' Weather Fors 5,30.—CHILDREN'S HOUR.

6.35. Boys' Brigade News 6.40. MR. FRANCIS J. STAFFORD, M.A.

M.Ed. Francis J. STAFFORD, M.S.,
M.Ed. French Talk.
7.0 NEWS. N.B. from London.
JOHN STRACHEY. N.B. from London.
Local News and Weather Porcess.
7.30. POPULAR CONCERT. S.B. from Lon.

9.15.—MB E. ARNOLD WARD. S.R. from

London, 9.30.—NEWS S.B. Iron London, 9.45.—POPULAR CONCERT (Contd.), S.H. Irom London

10.30.—Close down.

Announcer : Sidney G. Honey

#### NEWCASTLE.

3.4.—Concert: Edythe Elver (Soprenc), S. W. Barry (Solo Violm).

5.5.—WOMEN'S HOUR.

5.16.—CHILDREN'S HOUR.

6.0.—Scholars' Half-Hour. Mr. A. W. Dahm,
R. A. Talk on "Stories of H. Nathan,
Sourticos the Slave."

6.50.—Boys' Brigade New.

6.45.—Farmers' Corner.

7.0.—NEWR. S.B. Irom London,
JOHN STRACHEY, S.B. from London,
Lucal News and Westler Forcust.

7.50.—FGPULAR CONCERT. S.B. from London.

don. 9.15.—MR E ARNOLD WARD, 8.B from

0.30.—NEWS. S.B. from Lundon 9.45.—POPULAR CONCERT (C. 14.) 8.B.

From London. 10.30. -Close down.

Announcer : E. L. Odhums,

To ensure getting the "Radio Times" regularly, ask your newsagent to deliver your copy every Friday.

<u> Չեւանիանանանան են իրավագության արգարան արգարան անական արգարան անական արգարան արգարան արգարան արգարան անական ա</u>



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## WIRELESS PROGRAMME—TUESDAY (Jan. 22nd.)

The letters "S.B." printed in Italics in these Programmes signify a Simultaneous Broadcast from the station mentioned.

#### FEMOUR:

and the tracts The Wireless Trie and

May Adams (Sopration 1) And May Adams (Sopration 1) The Professional Woman't Furnishing "(No. 3), by Mission 10 May 1 Market 1 Mark," by Constance Coventry

5.30. CHILDREN'S STORIES And Pri-chain "Wester Sports." London Wasks I read ty and St James." by Violet M

6.15-7 0 -Interval

7.0.—TIME SIGNAL, AND 1st GENERAL
NEWS BILLETIN S B to all Stations
and Wendler Forecast

1) For Hon Visi Gint Chelms
Ford, P.C. K. M.G., etc., Ex Viceroy
of Icida An Appeal on Densif of the
Dritish Empire Leprony Benef Associat

7 TO THE ROOSTERS C NCERT PARTY

THE ROOSTERS C NOTES 1

5 H & Housemount.

1 The Roosters Myn n break their shel.

2 Concerted "I want a Gul! The Rooster.

5 Tennr Solo. "In Love" Arthur Mackiness

4 Humorous Song. "Tauciu Tradesiden

William Mackiness

Mackiness

5 Concerned " Gutter Merc anta The Roosters

5 Concerted The Raonees
6. Your Duct. "Posted 'Arthur Mackings and Reprinted Hone
7 Character Studies from Dickens.
"erev Microscope Know.
"Roon."

fl. Some at the Prano, "You Never Know George Western

P. Bartone Solo, "Why Shouldh. Septatous Ruc Arour Mack of

10. A Purate Tero a Ar our Mock of William Mack and Percy Merroman

FRANCE P P Bak ast BA I no

1. 0 Close down

Innouncer J S. Dodg

#### DUBNIEGHAM

3 50:4 50 - Georgius Tanner (Mezzi Sopos io io a Boeital of French Song foul R inner a Orchestra relayed fire linza io Picture House

5.0.-WOMEN'S CORNER

5 30 Agreenhura Weather Forecast KIDDLES CORNER
 7 0.—NEWS SH from London Local News and Weather Forecas

7 15. THE GREAS' CON FICE PARTY Opening Chorus, "An Introduction Urifithe, M S

LEON ARD SHOWN and CHRISSIE STOD DARD Dast "A Night in Veryor"

EPITH JAMES. A Prano and Some Songa.

ERNEST JONES Solo Banjorst. "A Summer Idyal". "A Summer Idyal". "A Summer Idyal". "Grimshan Leonard Brown "Tenor Songa," She in Far From the Land" "Lombert Trut in to the Far" "Stunford PERCY OWENS and some Wittgaisms. The Greya. Concerted Item, "Song Salad" A ckeon

Christie Stoddard . Songs. The Last Fa-All the Fun of the Fair " Martin The Greys, An Interrupt

Ernest Jones Som Banjar The Breys Burlesque, 'On Election Day

B.30.-CAPT, P P ECKERSLEY, S.H from Lond a

R.46. \*TRISTAN AND ISOLDE, Act II N.B. Irom Limition

945. NEWS. S.R. from London 10 0 .- THE SAVOY HANDS, S.B. from Lon

11.0. 4 pse down

Announcer H Ceca Pearson

## BOURNEMOUTH.

3 45. Concert : A ann Frunklin (Solo 1 If J. Sherring (Solo Banjo', Ru land Ose va-(Entertainer)

das WOMEN SHOUR 18 KIDDIES HOUR

b. S. a. Hall Hour Electure Nasl.
R. S. M. can on of Pictures
TO. NEWS. S.H. from Lands.
Local News and Weather Foreras
J. C. B. CARTER, B.A. on "30c Actual Comm. Doyle and but We lea."

THE ROOSTERS CONCERT PARTY S.B. from landon

8.30. JATT P P ECKERSLEY, SH Ithm

8 45.- TRISTAN AND ISOLLE, Act II S B Iron London

9 45 .- NEWS. S.B from London

10 Q. JTHE SAVOY BANDS. S.B. Irom Los.

11 0.-Close down

Announcer Ian Oliphaus

## CAROLEY.

3 30-4.30. - Falkman and his Occhestra relayed

from the Lap. of Chamma

O "WAS" "FIVE (To LOUKS, " Ma
Ever man" Takes to Women, Vocas and In
strumental Arcisics, the Station Orches re-Weather Forecas

46. THE HOUR OF THE "RILDIE WINKS"

7 3 NESS S.B. from Landon Tain ag Dec as

7 15.-MR. RICHARD TRESELER, F.B H S. Chat on 'Garden ag'

7 00 Literary Night.

C adacted, with a cratical commentary, by MR & P B MAIN
THE ROMANTIC REVIVAL OF ENGLISH P ETRY

## **ALTERATIONS TO** PROGRAMMES, Etc.

S THE RADIO TIMES goes A to press many days in advance of the date of publication, it sometimes happens that the B.B.C. finds it accessary to make alterations or additions to programmes, etc. after THE RADIO TIMES has finally gone to press.

Records in illustration by KATE SAWLE, no CYRIL ESTU RT Sungs of the Prince by WEADYS PARTRID & PAISTAN AND ISOLDE," Act II S Coun London 9 45 NEWS 8 B from London 10.0. LITERARY MIGHT (Contd.) 10 30 -- Crose down Annotheer A Cornett Succh.

#### BAD OLODAK STAR

3.50.4.30.—Concert by the "SZL" Trio.
5.0.—MAINLY FEMININE, acloding Missianet Edwards on House Life in Ugarda"
5.2 Farmers' Win for Forecast
6.4 ALLIAMEN S. HOUR.
7.0 NEWS. S. B. from Landon
6.4 We and Weather Forecast
7.7 45. 1

45. THE SZY OR HESTRA Morch, 'Floreninger' Frack Internerse, 'Face Breams' Wood

11.0. Close down

Announcer Dan Godfroy, Jar

#### NEWCASTLE.

3.45 Concert . Madame Alec Thomson s

Our site

Quar site

A45. Women's Hour

A45. Women'

Association

7.35. THE WIRELESS OR THESTRA March Tynesid Sous Overtice San f m. · f lim

Overtore Tyneside Sears of the Overtore of a translation of the Torondor of Carmen of the Torondor of

B.25. A Musical Jugary

5 5 ARIST AN AND ISOTT P.

S B from Lindon

9 45.—NEWS, S.B from London

10 0. Orchestra

Selection, "Merric England"

40 10. V. Benn. Сегиния 0.10. V. Benn.
Medianage "
'Rosebiids "
0.20. Quartette
'On the Banks of Allan Water "

on Thangeon O Quarrelling ' Orcheste \$ 6 mp no

8-lection, Welsh Songs June on 10.40. Close down.

Announces R. C. Pratt.

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## WIRELESS PROGRAMME—WEDNESDAY (Jan. 23rd.)

The letters "8,8," printed in italics in those Programmes signify a Simultaneous Broadcast from the station mentioned.

#### DOM/SHOTE

5 30.4 50 —Convert The Wireless Tho and William Cox (Baritone D. Wolden 5 HOUR. World of Bells and Federing Ib is." by Fairence Staepoole. Or

To CHILDIANS STORIES. Ore estra.
I note Jeff's Talk on the Orebestra.
640—M E. M. STEPHAN French Talk,
La Republique at la Democratis Française
8 h. to other stat on
70. TIME SIGNAL AND 18T GENERAL
NEWS BLALETIN 8 h. to all Stations
WINTER TO THE CONTROL OF THE SIGNAL AND THE BLC Drawn
(Title) "News and Views at the
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BAND OF H M CRENADIER GUARDS BYNDOF HAR GREEN AND BROWN BROWN BROWN BROWN BROWN BEEFE GE MUSIC, DIET T G MILLES

Quick Macch "Victoria" ... = ... Fon Him ore, "The Flying Datchman," Progress

English Morris Dame "Shepherd's Her

FRANCIS MORES (African Baritone).
Spir-tuals, La J David Pay Nobody Knows de Trou de I Sec

GEORGE BLACKMORE will talk-and sing

the ADILR OUARDS BAND

La From "The New World to area

Do see Olios and thorset." V Hanele "

For Dell Acquire 12

Sand Sergt. J. Hacker, Oboe; Sergt.
Mat news. ther net
Francis Mores
Northana ' Go Down, Moses
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Start Law, Swest Charat."

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Strongt Music to "Stop Flet og "

Hold Lonnon and Greekerin

115 MR B C LATLLE. Secretary to the

last inte of Conferred Accountants, on How

lies one an accountants

St. Time Signal. AND 2ND GENERAL

NEWS BILLETIN S. H. to all Scot and

Lora News and Weather Forecas

9 45. Greenadier Goards Band

Fartante "The Evalution of Dice" Lade

Dunt for Emphoneum and Cornet, "A Night

in V mice"

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Bradens Mices

Larration

Peaners Mices

Wed de Moon Moon Moon J 4 10 mg George Blackmore Will sing and talk a little

Vase, "Moon ght on the Alster" cot "Rice Danuae Bues" col "Rice 1 13.30 -Close down

Ansonner J S. Dodge or

## BIRMINGHAM.

5.30-4.30. -Page Remer's Orchestra relayed con Locally Parture B = 5.0. Wilder S CORNED 5.30 - Appear total Weather For ast KIDDES COPNER 7.0. NEWS. S.B. from Landon

ARCLIBALD HADDON & B For Lon

Loca, News and Weather Forecast

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9.45 SIN AD THE WALLER 10.80 Dec N. Marcharler 20.45 Sept. Marcharler

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## BOURNEMOUTH.

61 V . . . Cansana Africa T e D. NEWS S. R. T. in Compactor ANY (13 to F.) HAT N. S. R. From London Land News and Weather Furness.

## Musical Cornedy Night.

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Honeymoon Ch mes Keep It Under Your Hut Vand

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## CARDIFF.

2.0 430 Fire as no o O a a a a 5 | 5W | S | FINE O'CLOCKS | W | For a | For a | Women | Vocal and In | Station | On catea Was broad to The R + PH Ky ) F M E. M. STEPHAN, S B. from Lon 7 Now S. A. Con. London.
AB: HIEAED HADE N. S.D. on such

Popular Night.

TEN DATE LUNEL FALKMAN (of the

7 30 cestra, March, 'Light of Foot' Rate acts "Latermezen" Cod e og T ge 7 40 Songs (Selected 7 50 Vrom Solo, Andante from Mendelssolo Loncart)

8.0 -Orchestral Overtare. "Obeson" Heber 8.10 - Youlu Son (a) Rondon on Theme by Sectioner " Recommendation of Theme (b) "Say sche Taixe" Drond 8.20. Orchestra Succe, Tribute of Zamora

30. YOICES TALLY H)

Source in "Wake" to the Hunting"; (h)

Bunting the Hare,

CYBIL ESTCOURT in a Recotal of "Rey

nord the Fox" (Warefield) (repeated by

Songs (a) "Old Tower", fo John Pee,"
9 30. NEWS, N t a / a
Local News and Weather Forecast
9 40. DR JAS, J. SIMI SON, M A. B.Se.,
Chat on British Mariana
9 5a Bance Mas
10 30. Close down

Amouncer L D Pag-

## MANCHESTER.

3.30-4.30. Concert. Bessie Brown (Supramo Muss M. Bade (Contralto) Tom Child (Tenor), Lindon Russe i Entertuner)

5.0 MAINLY FEMINING 5.25. Farmers Weather Forecast 5.30. CHILDREN S HOUR

6 30.—Organ Rec tal relayed from the Piccadd's Picture House, Organist, Mr. J. Armitage F.R. C.O.

O NEWS S B from London ARCHIBALD HADDON S B. from London Local News and Weather Forecast

THE SALE AD VOCAL SO DETY

In Songs "Dawn of Song". Harreton

It as bod "Stanford

Meaninght". Enter Faning
Soid ets Rest". King
O Happy Eyes "Elgor"

Salford Vical Society (Ladies unly)
The Lord in My Shepherd
Three Fishers.

Happy Life

Three Fishers.

Happy lale

2 45.—W R. ST(kFS FRAS, on "The New Astronom)

9.0. TOM H. MOORISON (Solo Violin).

Hyre Kata"

2 10.—THF SIRFESSOR will (incourse again.)

9.30. NEWS FB. from London
Local News and Weather Forecas

9.45. Tom H. Morrison

Product up and Alegran.

Product up and Alegran.

Programs

Practad um and Allegro as a Pognom
The Salford Vocal Soriety

The River Foweth Strong, My Love"

R. Rogers

Locality of Lefe"

Locality of Lefe"

Locality of Lefe" 

Institute Spanish Task

Annumeer Violer Shottle

#### NEWCASTLE.

3.45-4 40 Concert The Wireless Bijon Orches-

135.-WOMEN'S HOUR
18. 4 HILDREN'S HOUR
6.0. Schoors' Half Houe: Mr. W. Carr
I Sc. \*\*Topocal Science Talks

(Continued in col. 1, page 147)

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Hastings House, Norfolk Street,

Strand, London, W.C.2. Bournemouth Depot 5, Yelverton Road.

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THE GEW SUPPLIES CO., LTD. (Desk R.T.), 57, Southwark St., London, S.E.

Senatore G. MARCONI G.C V.O., LL.D. D.Sc.,

has written an interesting article in

The Wireless Annual

> for Ameteurs & Experimentors

Full to overflowing with valuable information the Athina in times amongst its mer libitors. Dr. W. H. a celes, has W. than North Million R. Courses. Major H. C. Parker Capitain P. P. Erkersley. W. C. Mitchell, etc., In auditor, the lipina provides at a to be a H. april date list a historic Cat. Some incuming French standars. Regular Tensor assert of European Williams. Cat. Someon. Cat. Someon. of Wireless Stitutions. Cat. Someon. of Wireless, Someons. Cat. Someon. Of Wireless, Someons. Major artifects and Re. of less of seas and accessories. Definitions of Technical Letters of live anguages, a line of inscitutions.

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## WIRELESS PROGRAMME—THURSDAY (Jan. 24th.)

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#### LONDON.

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## BIRMINGHAM.

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## Popular Classics Programme,

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## BOURNEMOUTH.

A Night of Memories

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## THOSE "HOWLERS."

Oscillation seems to be increasing in all districts. The B B.C. with to appeal to be sporting spirit of all who are thus interfering so seriously with the pleasures of many thousands of fellow batters not to costions this anaiyance. Captain Eckersley wil be pleased to supply free printed information regarding the best methods of anothing oscillation to all who apply to him at

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## CARDIFF.

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#### MANCHESTER.

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#### NEWCASTLE.

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Albania R. C. Lent



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## WUNCELL VALVES.

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| of all [40, 60 s] 4 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| F MACDONALD BMITH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 19. Shoomthary Equara, LONDON, W.C.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## WIRELESS PROGRAMME—FRIDAY (Jan, 25th.)

The letters "8.8." printed in Italics in these Programmes signify a Simultaneous Broadcast from the station mentioned.

#### DINDON.

5 30 4 30. Concert - The Wardless Tenn.

5.0.—WOMEN'S HOUR "Some Japanese Uniterns." by O. Pollard Crow there. Impress I essents of the Work

5 30. CHILDREN S STOPLES To Its S Wedding," by Piness Polard Crowther Songs by Uncha Rex. Units Jack Fronts W wless Yarn

6 15-7.6. -Interva

70.—TIME BIGNAL, AND 1ST GENERAL NEWS BULLETIN, S.B. to all Stations G. A. ATKINSON (the B.B.C. Files Critic) Seen on the Screen," S.R. to all Stations. Local News and Weather Forecast

7 30. BURNS NICHT PROGRAMME. 8.H. Law Glassonie

NO.-TIME SI- YAL, AND 2ND GENERAL NEWS BILLETIN S.B. to all Stations Local News and Wouther Porceast

MICHT PROGRAMME [Contd.] S.B from Glusqua

0.48. "SIECERIED," Act III (Wogner), "claved from The Royn, Opera House, Cown, Oreden, S.R. to all Stat on:

I M Chern

Assessment a F laws

## BIRMINGHAM.

% 30 au H er C from Lezeds Pierare House A ship on releases

5.0. WOMEN'S CORNER

Agricultural Weaths | For care
 KUDDES' CORNEL

6 NEWS, S.B. from Lordon G.A. ATKINSON, S.B. from Lordon Local News and West for Forecast

7 30. THE STATION ORCHESTRA Special Request Items

The Dennier Rectal, The Dennier Scott Act H., from David Garrick

Orchestor Special Request Items 8.15-8.45. -Im-grvat.

**Burns Anniversary Programme** 

Oret rafes Smite ! The Th sth Myddleton (LADYS WHITFHILL (Sopenie)
We dering Wille"
We Heart in Sair "
Whistle and LT Come | A in Frader Words by Borns A er Traditional

115 servetion . Reminiscences of Scot and Godfrey

9.30.- NEWS. NB from London Local News and Weather Forecast

9 40. WILLIAM MACREADY AND EDNA GODFREY TI RNEI! Dramatic Recital, Excerpts from ' The School for Scandal,'

Grebestra Special Request Items

10 10. " SIEGERIED," Act 111 S.S. from

11 20. -Close down.

Announcer H Cecil Pentson

## ROUBNEMOUTH

3 45. Concet The ' 5BM " Trie-

445. AW MEN B HOUR

5.15.- KU OIFS HOUR

6.15 .- Sormare' Rad Hour Mes bery . " Pho Lamp Cook's Story

70. NEWS, S.B. from London G. A. ATKINSON, & B. from London Lord, News and Weather Forecas

730. BURNS NICHT PROCRAWME, S.H. Iron Gumme

930. NEWS, S.B. from Leaden

945. BURNS' NICHT PASK RAMME (Cont.), S.B. from Glasgon

10 10. - " STEGFICKED " Act III B.H from

11 20. Close down

A some a W R Keene

#### DAUDUEC.

5.30-4.30. Exhausin and his On has an evalved from the Cap to Canonia

5.0.- "5WA 8" FIVE O'CLOCKS." M. Everyman, "Traks to Warren, Vocas and Instrumental Artistes, the Station Orchestra. Was her Forecast

545. THE HOUR OF THE KIDDLE WINKS

7.0.—NEWS, S.H. from Landon 1. A. ATKINSON S.B. from Landon Land News

Robert Burns.

January 25th, 1759 THE BUSTOL GLEE S.M. E. & Vion ist v MAUD STEPHENS

7.30. March Fator and Geory " .....

Of a' the Avest specific transfer to Bentock Roll Adaption of the Adaption of

7 45,—BETTY LINDS VY : Rec case from the Works of Report Burn

7 50 19

7 50 St. 2.

"John Anderson, My Jo, 'arr Michael Dyark Yo Bardes and Brace' arr Michael Dyark 8.0. MR. J. M. HUNGE, M. A. M. P. proposing 'The Housetts, Memory of Robert Burns' at the Cardoff Calculation Society a referentian of the 165th anniversary of the both of Robert Burns, related from Lox 2 tures to all " tufe tanks

8 30. Part Sough Alian Water a famous Rutton Annie Litario" o L. . . . . . arr Cunfor 8.40 Se setton Pine Til s

Mydell ton 

8.55. A Handful of Secretal Variety

9.5 Suite "Keltie State" ... Foulds

9 10. Part Songs "Jessee, the Flower of Da slave." Aften Water

9 20.—Songs \*\* O Whistle, and I I Come to You my Lad \*\* \*\* Dyac 'Coming Three the Rye " are Michael Dyack

930. NEWS AR. Iron London Local News and Wenther Forecast

9.45. -Dance Masic

10.10. O STEGERSTED ACCULE 8 H Joon

L. 20. -Crose down

At some certain A. Coullet in .....

#### MANCHESTER.

5.30-4.30. -Concert. Muncl Travis (Sepano), Ldy Konda (Contralto), W. R. Wasan to a bacatone), James Taylor (Dialect La cotaspert

5.0. MAINLY BEMINING.

5 25 .- Farmers' Weather Forecas

5.30.-CHILDREN'S HOUR

640. MR FRANCIS J. STAFFORD MA, M.Ed. French Tab.

70. NEWS S.B. from Landon
C.A. ATKINSON S.B. f. w. Landon
Local News and Weather Fire

7 30-7 45. Interval.

7 45.—KEYHOARD KITTY will ope proceed

8.0 - JAMES BERNAUP will give you exceeped from Shake pr

8 50. BETT's WHEATLEY (Soprano) 8 50. - Bolve g's Song '' and a second of the Not Knew '' .... Troter

9 h.—JAMES WORSLEY (Dialect Es counter How Billy Armstage Goot a Neet's Lodg 4 1 JSP

9.45 MR. W W BLETCHER, Examiner Spanish to The Union of Lancesbire and Cheshire Institute, Spanish Tolk

9 30. NEWS, S. H. room tomorn Local No. and West + Fina

9.45 But a When her 9.5 A v. Entshop, Levil Levil

"A Lattie Coon's Prayer" , Melville Hope

James Warney Bonny Beat.

10.10.— SIECFRIED, Act 111. 8.B. from

1 20. -Close down

Appounder + Victor Smythe

## NEWCASTLE.

3.45. -Concert , Raiph Elliot, (Sata Planetorie), Bessie Randmarsh (Confrazio), John J. Mar-tin (Baritone).

4.45 = WOMEN'S HOLR

5.16. - CHILDREN S HOUR

6 0. Schours Ray Hour, Mr W C. F Campage Talk on "Water Power

6.36. Sacriers Corner, Mr. B. W. W. ... on "Variations in the Composition of M. &

70. NEWS, B.B. from London
G. A. ATKINSCIN. S.B. from London
Local News non-Weather Forecase

730 B. RNS NICHT PROGRAMME, 8 B. Lun Glangow

2.15.—Barns' celebra ions relayed from the dis-ner given by the Newcastle Rocay Cale is against the memory of the famous bard \*IR ROYERT BRUCE (Editor of the Gis-you Herald) will propose the ' Immorta-Memory''

0 0 0 30 In west

2.30,-NEWS. S.B. from Landon

BAS. HURNS NICHT. PROGRAMME (Contd.). S.B. from Glasger.

19.16 .- SIEG-FRIEL, Set 111. S.H 1 on Loncom

11 20. -Clase down

Annual D. L. Commis



## TWO, THREE & FOUR-VALVE RECEIVING SETS.

The above initials
are known
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for

## EFFICIENCY

## RELIABILITY

A.J.S. Wireless Sets incorporate the Latest in Reaction Circuits and are unsurpassed for Selectivity, Pursty of Tone, Volume and Workmanship.

Complete Sata consist of Panel as Bustrated, Valees, Head Phones each and Low Tersoon Bacterian, Astes Wire, fandators, Lenden Tube, etc.

Palabapas and further particulars will be formered on request.

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WOLVERHAMPTON.

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Three-Valve Set £22 5 0
Four-Valve Set £27 5 0

The above priess include Marcont and BBC. Form



"Quid cosper feed, incredum as Y". (Who knows what the evening may it og us  $x \in U \setminus g$ 

IN these days of perplexity and circumstance, would it not be folly to dwell upon what the evening may bring us? We really do know—and it mightily concerns most of us that on every evening of the week and easily within reach, he the means of bringing wholesome pleasure and infinite contentment to family and friends. Instance the remarkable popularity of the wonderful Wireless programme and the keen enjoyment created among the charmed listeners by the introduction of a few cartons of choice Tunis Dates to the circle.

This delicious and favourite fruit is welcomed as a light but nourishing refreshment and the very finest selections from the New Season's crop are those packed by the firm of

E. A. O'MELLY

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Sole Agent for Scotland :-

55, King Street, Glasgow,

## FIRESIDE CONCERTS

You cannot buy better instruments at any price, nor can you buy instruments at lower prices to give equal results

The SAXON

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Revalues 40/ extra comagnition Comple a with heat infinites and accomplished and lawresty £9 126
Revalues 40/ earts. Valves 18/ each extra.

THE SAXON

£8:15:0

Ruyalties \$7/5 envia carr age paid with hest phines accumulator and hitters \$12,100. Ruyalties \$7/6 each Valves 15/each exces.

Unsolicited Testimonials 200 " It gh S ret., t wash as "Your two-rates set is giving excellent results. We save all B B.O. Stations., also Continental Mat. 198.

\*\* Main Street, Lernahagow, Lamarkahars

"It 'k your three-value set I have got good results from all
B & C Stateons, being oble to tune out Glasgow easily to get
wher stations. I received on Sunday morning very good
receptions from NEW YOUK, AMERICA, from 3 a.m. to
6.15 a.m. Mains and speech ring east also the hand
chapping after the dance items."

These instruments are obtainable only from

SAXON RADIO Co.,

'Dept. 24, HENRY STREET WORKS (South Shore), BLACKPOOL.
TRADE TERMS ON APPLICATION.



'Messmates'

10 FOR 6 D. 20 FOR 11 ½ D. GREAT. Y as lack prizes in the free as stack of PLAYER'S 16. ARTT. Fig. 2 will never acceptate to share them with a measurate to share them with a measurate to share them all, is a supremetent of friendship, showering credit upon the giver joy upon the happy recipient.



PLAYER'S
NAVY CUT
Cigarettes

PLAYER'S NAVY CET TOBACCO has been an unfailing water of satisfaction to generations of pope smakers. F

## WIRELESS PROGRAMME—SATURDAY (Jan. 26th)

The latters "8.8." printed in italies in these Programmes signify & Simultaneous Broadcast from the station mentioned.

#### POMPONI

7.30 4 30.—Concert : The Wireless Trio and Jesone Elliott (Soprano)

5.0. WOMEN'S ROLR - "In and Out of the Shops," by "The Copy Cat." Gardening Chat by Marion Cran

5.30 CHILDREN 8 STORIES: Auntic Sophie at the Piano, Children's Naws Cames and Paximes. Bullard Kearton's Widd Bird Adventures," read by J. Riddet Young.

615 7 0 Interva-

70.—TIME SIGNAL, AND 1ST GENERAL NEWS BULLETIN SB to oil Stations.

Local News and Weather Forecast.

7 15 MR AELEN BADDELEY on "The Day's Asses ation Football"

7 30. -JOHA HENRY on Conjuning SB to other Stations
Some Humoroug Snapshots by FRED MIL
NER SB to other Stations
JOHN HENRY on "Grand Opera"

80.- HANSEL AND ORETEL," Acta 1
4nd H (Humperdonch), relayed from The
Royal Opera Home, Cownt Garden, S.R.
to all Stations, (For Mr. Scholes description
of the Opera, see page 124 of this axes.

B 30. TIME SIGNAL AND END GENERAL NEWS BUT IN FIRM S.B to all States.

9.45. MR E. KAN ROBINSON on Some from Nature-Footwriting in the Saco S.B. to other Stations

ACO. THE BAYOY ORPHEANS AND SAVOY HAN ANA BANKS relayed from the Savoy Hines Language & B. In other Stations. L. O. Alloye down

tranquaser J S. Dudgson

#### EXPENSION AND COMPANY.

5.30-4.30. KIDDIES' CONVERT by the

5.0-W MEN'S CORNER

5 30.—Agricult tral Weather Forenst KID50E8\* CORNER Further Advented of Snooty

70.-NEWS. S.B. from Landon Local News and Weather Forscast.

## Old Memories Night,

71. THE LEADS OF THE STATION REPERTORY COMPANY was give further renderings of "OLD TIME FAVOLRITE SUNGS

8.0.—" HANSKL AND GRETEL," Acts I and IL 8.8. from London.

9 VO NEWS. S.B. from London

B.45. ALICE COUCHMAN (Solo Pinnoforte)
Preluda in A Flat \*\* Boscabloom
N.g. in May Palmyres
Li Roure Palmyres
(apparent No. 2 Bridge
Ana congres MacBosca MacBosca

10.0.-WALTER BADHAM (Humorist, in selected flora from his Repertoire.

10.15.--Close down.

Augusteer H Ceed Pearson

## DOUBLIN WOUTH

5.45. -Concert: Alan Franklin (Solo Plane) Gerald Lee (Touor), Mariel Conton (Con-

4 45.-WOMEN'S HOUR

6.15.-KIDDIES HOUR

6.15.—Scholars' Half Hour: J. Scattergood, It G S., "The Romance of Old Maps

7.0.—NEWS. S.B. from London. Local News and West or Forecas

7 15.—E. BU SSELL OAKLEY on The Pass ong of the Smugglers' Trade."

7.30. -JOHN HENRY mod FRED MILNER. N.R. from London

8.0. "HANSEL AND CRETEL," Acts I at d II. S.H. from London.

9 30 .- NEWS, S B. from London

9.45,-MR. E. KAY ROBINSON, S.B. from London

10 0. THE SAVOY DANDS S.H. trom Lon don

11 0. - Close down

Anaooneer W R Keene

## CARDIFF.

3.30-4.30.—Falkman and his Orchestra relayed from the Cap. tol. Chaema.

5.0 - "SWAS" "FIVE OctoOKS." Mr Everyman," Talks to Women, Vocal and Indeumental Artistes, the Statum Orchestra, Weather Forecast

\*\* THE HOUR OF THE KIDDLE WANKS

70 NEWS NB from Landon

715.-WILLIN C. CLISSITT Chat on Sport of the Week Local New

730. JOHN HENRY and FRED MILINER S.B. train Landon

8.0.-" HANNEL AND GRETEL" Acts I

9 30.-NEWS. S.B. Jone Landon

945.—AIB E. KAY HOBINSON S.B. from

10.0. TEEL SAVOY BANDS. S B. from Long

11.0. 4 lose down

Appointment L. B. Page

## OF THE RESIDENCE

5.30-4.30. Concert relayed from the Oxford Pacture House

50.-MAINLY FEMININE

5 25. Farmers' Weather Forecast

630.-CHILDREN'S HOUR

6 30.—Organ Recital ratayed from the Pictor dilly Picture House. Organist, Mr J. Armitage, F R.C. O

0.-NEWS. S.R. from London Local News and Wenther Forecast

7 15. THE ' 2ZY " OR( HEST RA March, "Folies Bergers" Lanch Air, " La Cid" ..... Musical Musicals

745. G. W. THOMPSON on "The Almo-

8.0.-" HANSEL AND GRETEL," Acts L and IL S.B from London

9.30.—NEWS. S.R. from Zandon

P.40. Orenestra.

Simmest Patcol 1 April Myddleton

10 5 Sybd Gordon.

Two Songs. (Selected.)

10 20. Orchestra, Selection, "The Arcadians", Caryll and Monchion

10 30.—Case down.

Announcer Sydney G. Honey

## THE RESIDENCE OF THE PARTY OF T

5.4a Concert: Terchak's Dance Orchestra, John Trons (Sola 'Cella), Rese Chapman (Sola Volta)

4.45.-WOMEN'S HOUR

5.15.-- CHILLI REA'S HOUR

6.0.—Scholar's Half-Hour : Mr. J. R. Wilsons on "Wales and its People," Park L.

b to Farmers' Corner Mr. H. C. Pattson on Farming Proverbs,"

76. NEWS, S.B. Irom London Local News and Weather Forecast

7.15.—MR. R. J. TAIP, on "Old Parish Records."

8.6..." HANNEL AND CHETEL," Acts 1 was H S B from Linears

9.30. NEWS, S.B. from London,

9.40. Palmer's Works Band

' Songe of Araby " (Cornet Solo) ... Moore 9 50. ETHEL M STANLEY (Mexico

Soprano)

'In the Science of the Night' Candel

10.0. Palmer's Works Band
"The Joywheel" (Teembone Bole) ... Solves
Solont . M. G. Snowdon

.0 20. Palmer's Works Band. Selection, ' Le Pré aux Clores' ... Herold

Selection, "In Sanny Lands." Remoter Waitz, "Queen of Emeralds.", forces one 11.0. Close down.

Announce R C Pratt

## My Secret Hut on Biggin Hill.

## How I Relayed America. By A. G. D. West, Assistant Chief Engineer of the B.B.C.



INTENDING to America has certainly had its amusements as well as its discomforts, its thrills as well as the disappoint ments. On the first visit to have a look round (the first time I had been there same the war) the snow was six melies thick, and typical welcome from Biggin Hill, very much

CAPTAIN A. G. D. WEST, in contrast with the WATH ODE WE Tees YEL Irom the squadron stationed there. The fun started that evening. I was waiting in a hut for a telephone call when I heard a violent erackling and dashed outside to find the Accountant's but was blazing. Flames were leaping out of the wandow, but a few buckets of water soon subdued the fire, and the presence of the fire party prevented me from gathering up any of the fragments. Firther, it was Friday, and the evening of pay-day, so my luck - like the cash-was out !

Luctoning in a Blostard.

Photo was your for a control of my vigils at Reggin Hill Boxing Nuit was the worst with a bliggord. The hot was a stone one, but we had a good oil stove, and we soon warned up to it; and my wife often came up with us and made some horling hot ten-very well ome at 2 a m. )

My first attempts at reception up at Bia. were with a wonderful twelve vacy. frequency receiver. It gave us the Yanks at full with-but it gave us also all the Morse stations in Europe, practically every thunder storm in the world, and a frightful amount of interference from the harmonics of high power stations. And New York faded away at meet vals (every three minutes or so), just as if it were engaged in a twenty-round contest with Tate physics at 4

Disappointing Wave-Lengths.

One might the medley of Morne was dealening It was all the result of an 8.0 % from a Dutch ship in mid Atlantic, and by the time it had reported all O.K. America had closed down.

Listening to America on the ordinary broad cast wave-lengths was very disopporating And who wants to wait up until 3 a.m. with a thought chance of getting good made from U.S.A. ! Portunately, there was more than one string to our bow. The East Pitisburg Station of the Westinghouse Electric Company has been transmitting its programmes during the last six months on two wave-lengths sinutancously-328 metres and 100 metres. My first introduction to the latter was on a small set. It was a good night and reception was remarkable

After that, I tried all kinds of ejecuts, and what turned out to be best for our purpose consisted of a severy valve high frequency ampleflor, followed by two stopes of low frequency amplification. Music was then received fairly regularly at sufficient strength, but it all depended on the strength of the atmospherics as to whether it was suitable for relaying. At any rate, the X s were less on this wave length than on the higher wave length, also there was practically on interference and no fading. This station was picked up directly it started at 11 15 or 11.30 each evening

Dorng our first attempt at relaying, so December 22nd, the atmospheries were terrific and completely drowned the music. On Boxing Night reception was no better. On Decomber 2" the we had a busy time. At a quarter to eleven one of our 40ft masts came down right on to the roof of our but with a linge crash. One of the guy states had come out of the ground. The guy ropes were twisted round the oh, many, but one of as shipped up it and released them.

At the second attempt at pudgig up the mast we got it up in position, and in half an hour excellent music was being received from KDKA.

Directly the Savny Havana stopped we would relay it; but it was not to be. KDKA signed off exactly at midnight, the first time I had over heard it do that-it usually goes on until

Critical Tuning.

The difficulty throughout the experiments was that we were unable to arrange definite programmes, and we had to relay whatever we programmes, and we nad to reasy whatever we could not up. Fortunately, on Friday and baturday, the 28th and 28th of December, the programmes proved suitable. My appara uswas crudely arranged and the tuning was

On the Friday the set appeared to have a growing tendency to oscillate, and I had to counteract this by healing my hand nearer and nearer to the tuning coil. After tuning-in and getting saturactory arguals, we 'phoned the and aformed 91,0, and then switched the o on to a Post Office line specially reserved for its. This by what the music to Savov H B where it was distributed to all stations. We also had a portable set on which we could listen to 210 and compare the transmission with what we beard on the receiver

On the Saturday we samply could not get through to 2LO on the 'phone, so we switches the music through, and such a good watch was being kept on our reserved line that, by the time we had charged our 'phones for those on the portable set, 2LO was already transmitting it and relaying it to all stations.

It was only an experiment, but it was great

## -1-QUERIES : By O. H. Wade.

F I tune the inductance and cut out the grio-With an amplified serial earth, And do it easetly like Eckersley did. What would ervetal reaction be worth?

If I couple my anothe to bouf watt dry cells With a potentic meter awatch, And ware the valve till it fases and smola How could anyone tell which was which ?

If I plug the resistance with rectified sparks And a quenched spark transmitter reflexed ; Ignoring my neighbours' indeposit remarks, Do you think 2LO would be vexed !

If I tune in to Card if and get Aberdeen By dividing my emperes by two, Then by doubling the voltage—you know what mean, Should I get on to Glasgow, or who ?"

I know that I don't know as much as you know. But you think that you know such a lot, That a few gisspie questions like these will evon abov

If you're on the right wave-length or not.

\*Poeter Lucenes :

## Paris Calling!

The First Franco-British Broadcast. By C. A. Lewis.

THERE is something very attractive about the French empital, and the chance to Secretary va. jumped at, particularly as it concerned the first broadcasting between two European countries.

Actually, of course, the distance between Paris and London is no greater than that between London and Mauchester, and therefore so particular difficulty was encountered.

French Goodwill.

The great interest in this trip to me was the extraordinary courtesy, co-operation and good will which the French officials showed towards the scheme. The original arrangements to broadcast the address of M. Pomears to me through, I had to try to put someth by Irom Paris to take its place at twenty-four le notice. This would never have been possible but for the help which was shown on all side-

There were naturally two though to be done one was to change over the direct lines to London from the French Fore an Office to some other place where a concert could be given and, secondly, to arrange such a concert. By great good fortune, I was given a letter to M Brennt, the technical expert to the Cie Fa-Radinelectrique, and as soon as I broached the question of making one of the Roda. for a concert to be transmitted in Great Britain. he showed the greatest on Language

Trusting to Luck.

Within a few hours a program me was actuaged he Post Office and Telegraph anthorities had a rion to switch over the lines to the Rachela Studio and all was con piete. It remained only to test over to London to see that the mes were in full working orders. This was done at II o'clock on Suncay morning, and the results were highly satisfactory

The Radiola Studio atarted their usual pgramme at 8.30 and we were due to start at 9 o'clock. But something went wrong with the trank lines and at five in nutes to him we found we were unable to speak to the London Office at all! Great excitement! It so happened that we had a French engineer on the spot who very aldy established communication on one line at a few minutes after 9 o'coock. We could gebothing through on the other, and so, fearing to keep impatient listeners all over Great Britain waiting any longer, we put the microphone on to the telephone line and decided to trust to our lucky stars that everything was all right. It was fortunate that we did so, because the second line did not come into working order until nfter 9,30

A Horrible Thought,

You can imagine the suspense in which the transpossion took place! Particularly while General Automs the President of the Compagnic Française de Radiophonie, was speaking. He might be speaking to nothing! What a bornble thought! Luckily things proved to be otherwise. The General seized this opportunity of this first official broadensting between France and England to deliver a few edmirable words of friendship and goodwill towards Great Britain, After this, I had the great honour of replying on behalf of British listeners

The Radiola Studio of Paris is underground

in a cellar and about 30ft, square.

The Radiola Company is keen to take some of our transmissions, and perhaps before the New Year is out we may have established a regular series of Peris-to-London transmissions both ways.

## The Savoy Dance Bands.

## By the Leader of the Famous Savoy-Orpheans Band.

M WY asteners to the Savoy-Orpheuna and the Savoy-Havana Dance Bands, brown as from the actual ballrooms of the Savoy Hatel Lamber which these orchestras were

These orchestras are not imported at bloc from alread, like those American manes orchestrae which visited London last year. They are lost as the last year of the Savoy-Orphens and Sax. Have a Rule as a lost as a lost as a lost a lost

The Search for Novelties.

New more unusual and on a formal in a six always being tried so as to add to the sparkle of the individual numbers.

The Lemme for an riggroup ory more thank, with it, a consequent demand for finer archestra. There are very many symphony preheatras there are, however few ready perfect to

A reason of the case to be most to the case to be most up to the case to the case of the c

Better Music Wanted

Dance are the past ten years—from the poorly-constructed, poorly-crobsstrated "Jazz" to the present-day syncopated music which takes advantage of every shade of orchestration and harmony. There is a constant and growing demand I relater and better dance music f but it is an analyzed problem to find sufficient suitable dance sames which are really good and original.

To-day, however, it is absolutely essential for a Nave v li have upon a record out to be with some ing for a most one bume, new dance music. These new numbers

are then considered by our special staff of arrangers in London and, where selected, are recast and orchestrated with every consideration for the part of the part

Over ten thousand dence tunes were read and tested when complying the present repertore of the Savoy-Orphasis Band.

Some Queer Instruments.

A dance orchestra for analytical proposer anyded under two bases—nestrantetts which emphasize "rhythm" and materiorchic which have a be suchedy the wear proposer of the form

Bugchin Mr. t. ala. Piano. Saxophonen Banjo Connets Tr tenders 1 ---Strong Bullet Drums Reeds Harpstehord Horp Name of Glockenspiel Tubular Hells

These instruments in almost every case are really groups of instruments. For instance, there are two budges, the long-neck and the tenur. Saw phones range from the double-base which a counts like a double of the form of th

The corners sometimes use Each trumpets, which look like coach borns, but with regular true to the trumpets, and the trumpets, which is the trumpets of the trumpets, which is the trumpets of the trumpets, which is the trumpets of the t

A Man of Many Parts.

The ceed instruments include clarinets and oboe, which are used almost exclusively for the "Blues" and walters.

The "Drammer" is the ouriesty of the orchestra, however, for he manages the big drum, ade drums, timpant—or kettle-drums to make the control of the second and the kettle-drums to be a second of the second are shaped almost like cow bells.

carved from wood and covered with lovely lacquer work—the xylophone, glockenspiel, and tabular bells. The glockenspiel is just like the text receipt the glockenspiel is just like the text in the glockenspiel is glockenspiel in the glockenspiel is glockenspiel in the glockenspiel in glockenspiel, and tabular bells. The glockenspiel is just like the text glockenspiel in just g

Altogether, the Savoy Orpheans and Savoy Havens Bands each use over lorty instruments in the course of an ever one's broadcasting

#### The World's Most Wonderful Piane.

The an orse to the same trainers the action of two plants, or for a section of the action of the control of the two is tuned an octave higher than the lower with a central pedal, the higher manual can be a ped to be seen to be a such type of two plants, or four hands, is obtained

This piano marks a great of vance in the second of the size of the Savoy-Orpheans or the second of the size of the Savoy-Orpheans or the second of the size of the Savoy-Orpheans or the second of the size of the Savoy-Orpheans or the second of the size of the second of

## The Atmosphere of Happiness.

The Savov prehestras take the received a same are a received at the same are a same at the sa

the vest audience to whom we are performing through the agency of broadcasting are unable to receive direct impressions of the glantour and feel all the glow of movement and robotra, which would enhance the value of the music could they do so so on broadcasting aights overly effort is made to transfer to the listener by the music alone the true atmosphere of happings.

District the present of the behavior of the best of the Same of barret on a at a far their Pittaburg effort



THE SAVOY ORPHEANS BAND.

## Specialities Ensure Reception at Least Cost. SEND FOR LISTS!

## The Bijouphone Crystal Set,

(P.O. Number 4216.) Pron. Pat. 29593)

is far in advance of any set at anywhere near to price. In addition to

## VARIOMETER TUNING

it has many exclusive features which include :--

Dust-proof, full quelqued, Glass Crisina Detector with Real Holid Cala tata We skeet.

Special Terminal and Auxiliary Con-densor for long ways reception. Specially designed for all the B.B.(

we edong be Beavy No gel Plated Fittings. Ebonite Panal Top.

Kange up to 30 railes and more under good one the

As a unding residue have once ob-to mel with and set of the me seems and was at the price of the

Complete.

B.B.C. Tax 1, extro.)

"Ideal" Valve Accumulators, Over 30,000 in dee-no complaints secured. Built throughout we the strong stime eras and no read of a glass case. The "IDEAL" has no rival for has no rival for

Prices 4 volt, 50 amps., 24/- (carries of the volt, 50 amps., 25/- (marries of the ite

Compute a complete gas with carry of his de There are one y other made a amount of 90 and 140 ar ps. The price of these are shown or card as

Pyramid High Tension Batteries. The new must embed as the latest approvements. The special method of rasula and etusions by a few and rehability

So, thed a arrows mode a each tapped at every 3 tolts to enable the most critical tomog, and supplied complete with two wanter plags.

Prices 5 volus 3/6 33 votts, 7/6 60 vol s, 12/6 90 vol s, 18/6 ALL THESE AND MANY OTHER SPECIALITIES, AVE FULLY DETAILED IN OUR LISTS, WHICH CAN BE OBTAINED ON REQUEST SEND AT ONCE

## BROS.,

13/14, GREAT QUEEN STREET, LONDON, W.C.2 PROOF DEPEND FIRST WESLENG ONLY 182, OLD CHRISTCHUSCH MOAD, BOURNEMOUTH





FINEST QUALITY

Johan Rusetti's Epsen di

## WIRELESS PROGRAMME—ABERDEEN (Jan. 26th to Jan. 26th.)

The letters "S.B." printed in Italics in these Programmes signify a Simultaneous Broadcast from the station mentioned.

## SUNDAY.

3 0 5.0. ORG AN RE. 14 AL. A.R. Jone Lon. 5.0.5.36.—CHILDREN'S CORNER, S.B. t. om. t. ardelf.
8.70. WIRELESS QI ARTETTE Mendelssohn
8.46. WY MI RDOL H. Soprant
Slary to Thee, My God, this Night

O Divine Redeemer "

50 Divine Redening 50 anon 55.

Superitura, Cora anna 7 ... Becthorem 6. JOHN KNOX C & CHUR H CH H. THE REV JOHN A. MARTIN John Knox L P Church. Re grous Address John Knox U F Church Cha.

Amy Mardach 1 Know That My Redeemer Layer Mandal.

5.25 ome Unito Me

9 40 February Moracels

9 40 February Moracels

10 February Morace Mendetwohn

D week Mousemen

Metalin Elec 10 25. Close down to number W D S see

## MONDAY.

3.30 4.30. The Wireless Quartette, Popular

10 WOMEN & HALL LOLD (
5.0 WOMEN & HALL LOLD (
5.0 DEPN - O NE)
5.0 Wowher Force of for her news
6.30 Boys' Brigado News
6.40 Boy Scouts' Tack Destrict Scottmaster
H & Forcett "Scott Signs
7.0 NEWS, & B from London
Local News and Weather Forceas
1.50 — (LAL ON FITE & B com-

41 s ARN LD WARD S.B from

9 & NEWS, & B. from London 9.45, POPULAR CONCERT (Lond), & H

13 30. Ca ---The new H J. M Kee

## TUESDAY.

5 30-4.30. The Worsless Quartette, Irish After

5.9 NOMENS HALF HOUR
5.0 NOMENS HALF HOUR
5.0. 4. Hb.DReNS CORNER
6.6.—Talk to Farmers Mr. Jus. B. Burclay,
Secretary of the Abordeon Angua Cattle
Boucety, "The Story of the Abordeon

O Isice di Quesi Airms 1 1 1 ---Don rest

8. John Rosetti's Eoser h
Melody in F
Alegratio

8.15. John Perry

Acchade "
Love You" Hertharen

B 30. CAPT P. F EURERSLEY S.B. Jron London

2 45. \* TRISTAN AND ISOLOGY,

8 B. from London

9 45. \* W.S. 5.B from London

9 45. \* W.S. 5.B from London

10 10. \* Mary Bowman

10 10. \* Mary Bowman

10 10. \* Mary Bowman

10 20. \* Main Rosett's Ensemble

Love is Meant to Make Us Glad \* German

10 20. \* Julian Rosett's Ensemble

Andaete Rondo

Mary Bowman

O Frewer of Al the World

Woodforde Finden

M the Shame London 8 45. TRISTAN AND ISOLDE," Act 11

Cornell V

15. Junuar Rusetti's Ensemble
Raymond '' Overture

50. A John Peerv
In Automa '' La Bonna a Marda " alla ama la 11.0.—Cinsa down

Announcer R K J ff c

## WEDNESDAY.

3.30-4-30. The Aberdeen Wireless Quarter
Storch Aftermoon.
5.0. WOMEN'S HALF HOUR
5.0. I HILDREN'S ORNER
6.0. Wes her Forecast for Farmers
6.5.— MADAME LEFEVRE Task and Instrucum on the French Language, No. 4.
7.6. NEWS. S.B. from London
ARI HIDALD HADDON S.B. from London
Looks News and Weather Forecast.

730. THE WIRFIESS ORCHESTRA
Fox-trot, Blue Dannile Hines"; Walte,
1 t. Sweete,
740.—DUFTON SCOTT (Braid Scots Harnot

740.—DT FTON SCOTT (Braid Scots Hamulat) will entertain from his own works
756. Orchestra
Wasta, "Lava's Triomph" 3 One step, "Dark
town Jamoutree"; Fux-trot, "Cat s
Whishers."
9.10.—PROFESSOR W W FYVIE D Sc
therdren University, on "Wireless
B.25. MOLLY BI (HARDSON (Sopeand)
"The Shopherd" "The Shopherd" Darke
Hali

The Shopherd " Annual Parke Hahi

6 35 D. A Scote will en erte a from his own

2 165.

B 50 Ord sairs

I Am But a Simple Maid ";

Swing Thin."

2 30 9 D L Swing Thin."

2 30 NEWS. S.B. Itom London

Ocal News and Weather Forecast

4 Crohestra.

Value Royale "; Quadrile, " Real Time.

10 0 Dut a Soilt will entertae from his own

2 6 66.

O. O. O. Molly Richard M. M. Mos. Mos. Oreonesira & g. tsoine Reel 10.30. Close down. Molly Richardson

Appender W. D. Sunpage

## THURSDAY.

3.30 4.30. The Aberdeen Wireless Quartitle Memories of Great Composers

10. Women No. 1 at 1 b. 1

5.30. CHILDREN NO. DRIVET

5.40.— Weather Forms for London

6.40.— Doy Scouts' and G of Oundes Nowa

7.0. NEWS, S.B. from London

12 B. Y. St. HOLES, S.B. from London

15 a. News and Weather Forces

7.30. THE WINELESS OF HESTRA

See ch Symphony " Mendelstahn
7.50. ORETA HODGE (Soprano)

Lament of Iola " Genedical
Care mos Ben " Genedical
Seenade " Seenade " Till
Seenade Till
Seena 

## FRIDAY.

3 30.4 30. Aberdeen Wireless Quartette, Dance

Afternoon 50 N MEN - 13 FHOUR 5.30.—CHILDREN R CORNER 60 N - Former of Far

60 Wall Property of Party Towns

6.5 Scholars' Half Hour: Harry Towns
Chrates, Act Gallery, Aberdean, on "Art

6.25.—Answers to Scholars' Querta,

70. NEWS 8 B. from London

1. A A. NINSON, S B. from London

Local News and Wenther Forecast

Pocal News and Weither Forecast

Burns Nicht.

7 30-9.30 and 9 45 10 10. This Programme will take the forest of the post-prouded portion of a Burns dumer. The Immortal Memory will be proposed by DR, JAMES F.

TOCHER, D.Sc., F.J.C. The following Burns' stongs will be same by MISS GERTRUDE SIMPSON (Suprana)

full the Voyes to the known. f al the Yowes to the Knowe Lomin' Thro' the Rye.

Lamin' Thro' the Rye.

For the Sake of Somebody
There was a Lad was Born in Kyle.

"Ye Banks and Bra
MR. JAMES SHARPE (Tenor, will sing
A P. has.
I to Awa wi' the Exciseman."

Ay Love in Like a Red, Red Ros.

"Bannie Mary, of Argyle,"

and offers

and of ors
The following items will be recoted by
DONALD MUNRO, OBE., Provost of

Hanchory:
'A Mun's a Man for A ...hat"
"Address to a Haggis."

Large Scots Whit Hae,"

An after dinner task by DR. J. P. TOCHER, D.Sc., F.I.C. Public Analyst, American THE PHERS FROM OAKBANK INCL'S TRIAL SCHOOL will play ongp.pn selec-

THE WIRELESS ORCHES, BA

4 Nicht We' Baros." Heart of Mid-school.

to ring of the Cans."

9 % N.S. S.B. Iron London
10 10 SIEU-FRIED," Act III. S.B. from

11 20. Close down Ammuneer H J McKee Continued is col. 1, page 147)



Shire property

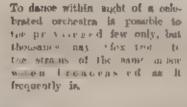
The Algraphone Salan, 25 - 28, Savile Rew, Regent Street, W1.

Salar care Show room

\$2, High Street, Claphenn, S.W.4 for the Dance-

THE WORLD'S AMPLON SP

WIRELESS LOUD SPEAKER



In association with a mutach Receiving Set, the America reproduces every note with is markable fairlist and in the full and right tope of the original—only the musicians are unseen.

That the Loud Speaker is a genume America is most eigential for no other macroner cancompare with the America Is olume, clarity and tops (see )

Yet the American is by no means expense. The original that the component of the property and the hardsome Concert Model at \$8.10.0 with Oak Horn or \$8.18.0 with mabogacy trumpet.

temption Loud Speakers are supplied by the principal producers of Nadio Apparatus and sold by all "Wireless" Dealers of Repute.

Descriptive Folden W.J. gladly mailed on request

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a definience Nov. 15. seminary of cost

Leogias Narasiana Caigitti Leodon

₩ H



Buy British Goods Only

## WIRELESS PROGRAMME—GLASGOW (Jan 20th to

The letters "8.8." printed in italics in these Programmes signify a Simultaneous Broadcast from the station mentioned.

## SUNDAY.

3 5.5.0 ORGAN RECITAL, RB trom Low-

EDS O CHIEFENS AND NH part

8 % CARR 1 D C A CEPTE
1 = 25 so the rote O mater
Ar in, " Hiese the Lord, O My Sout"
Vacuat

8.40 THE REV GEORGE W TAYLOR MA of Stevensob I teld Free Church Bengious Address.
9.50 Quartette.
Psam 103 to the Tune "Coleshol."

8.0. ISAAC LOSOWSEY (Bole Violin).
Prolude and Allegro , ... Pagnam Kreider

Kreider

L. Law Hown

Vernassa Rochmunnof

Varnassa Rochmunnof

Zapateado Sarasate

Sarasate

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10.0. - NEWS. Recayed from London.

and News and Weather Forecast.

10.1. San a 1 mon a 2 mon de transport.

4 Announces Herbert A Carrathers.

## MONDAY.

1 30 4 B to Fine of Merody.

4 F We MENNE I ALF HOUR.

2 L. THE III EN B CORNER.

6 0 -Weather Forecast for Farmers.

6 45.—Boyn' Brigade News.

7 0 NFWS SR from Frinden

F HN STRACHEN SB from Langua.

2 30.—POPULAR CONCERT, S.B. from Low
1008.

HOR. MR E. AKNOLD WARD Sh from London.

9 X NEWS NB town Janoon
9 X NEWS NB town Janoon
9 A5.---FGPULAR CONCERT (Contd.). S.B.

from Landon. 10 SO 4 and A H S Pa reson

## TUESDAY.

3.20.4.30.—An Hour of Melody, 4.45.—A TALK TO WOMEN I THE CHILDREN'S CORNER. 5.0.—Wenther Forecast for Farmers, Less News and Weather Forecast. IS OF IS H. BRENNAN on Bow Gas 7 30. BAND OF H M 18T BATTALION
POY AT S OTS FIRST SET S.
By kind pertrission of Brev Col C. H Conductor W. C. WITHERS A.R.C.M. Overture, "The Merry Wives of Windsor"

Seconds, "The Bellry" Howard Hought Selection, "Fault" The Bellry Games

LLOUR LPEL IES V FOR To be a Vene A band transfer Suste, ' Four Indian Love Lyrics "
R'ood/orde-Fanden Navni Patrol, " Brito n's First Luic " Williams Solo on The Mark For Markets Solo and P. P. P. E. K. Elson E. N. B. Solo on Tunk 4. IEISTAN ND SCLDE, ACH

6 40 It Is I N ND ISCLEE, At II & B. tram London.

9.45 NEWS. N.B from London
Local News and Weather Forecast.

10.0 Liddel Peldieson.

'Under the Greenwood Tree"

'It Was a Lover and His Lass Quiter

10.10.
Rand.

To st. "La Voce de Clock q" I ton n

V I S S S
Selection, the Catacet Girl Arm

Vater, "Love's Luttoy Tat

Seetigh Rhapoody The Wedding of Shop

Mexicus. Menena Barch, "God Bless the Prince of William"

10.40. Specia At annuesments. Cluse down Vs Mag V Seear

## WEDNESDAY.

Y10 4 TO A A TALK TO WOMEN 5.16. THE CHILDREN S CORNER. 6 40 M & M ST 113 5 M

Q.— NEWB. S.B. from Landon. ARCHIBALD HAPDON S.B. from Lon-

Local News and Weather Foresast,

Grand Schubert Night. 730. THE AUGMENTED ORCHESTRA - Conducted by Herbert A. Carruthers

7.40. JOHN PERRY (Fenor). Servinds. "Thou Bringest Peace."

o Thou Bringest Peace."
7.50. Orchestra.
Symphony in C Major
8.20. John Perry.
" Hark! Hark the Lark."
" Who is Sylvia!"
8.30. Orchestra.
S. on, t Major of L
9.0-9.30. Interval.
9.30. NEWS. B.B. from London.
Local News and Wenther Forecast.

945 Or fee ca
Ballet Music, "Rosan inde"
955.
"The Krl Kark," Done Process
(W. Ord Steen A. M. 2.
(W. Ord Steen A. M. 2.
10 10 Order ra
"Ava Marche Milita re."
10.30.—Special Annuares

10.30. -- Special Announcements. Close down. Appointer , Mungo M. Dewae.

## THURSDAY.

3.304.30. As Eoor of Melody
4.45. A TALK TO We MEN.
15. THE F. Token S. C. C.
6.0.—Weather Forecast for Farmers,
6.4. We St. Cond. C. T. C. C.
70. NEWS. S. B. from London.
15.1 S. HOTES. S. E. Tondon.
Local News and Weather Forecast.
73. WILLIFE ROLES. C. H. London. B.O. AN HOUR'S CHANGER MUSIC. 86 90

Fix of Diagnos 1, 7 to V

What is a line line were

Cap Pactont H. B.

E.30. NEWS 8B / m. n. m.

Local News and Weather Forerast

9.45 One-step, 'Mamie I Loves Yer's Fox frot,

I have the root I a

No. I As I a

No. I I I

10.30. Special Announcements, Close down

Announcer v Mango M. Dewar

## FRIDAY.

Local News and Weather Forecast

Burns' Nicht Programme.

BB to other programme.

BB to other programme.

"There was a Lad."
7 50. AUGI STUS REDDIE Electronist
"The Control of the Control

The Past

8.27
Solve o The Wilton School Choir Boliss "Ye Banks and Brace" and "A Man's a Man."
Choir, "Scots Wha Ha
8.47
Augustus Heddie
"The Cotter's Saturday Night,
B.O. The Wilton School Choir
"As Fond Kiss."
"Duncan Gray
"The Wilton School Choir
"As Fond Kiss."
"Duncan Gray
"IN Mauchine, Ayrshur
Possie Namey's Inn was the scene of the Joly Reggars, and the intimate association of the meeting of the Mauchine Buries time the meeting of the Mauchine Buries time

The "Haggis" Arrives at "58C."
To be an A rag of Augustus Bridge

"AULD LANG SYNE 1...10 State of the state of the Landon

(Continued in cel. 2, page 147.,

## YOUR VALVE TROUBLE.

You have valve trouble So does your friend So do thousands of others.

## WHY?

In 99 cases out of 100 your valve has been overloaded, or the high tension voltag, has been allowed access to the low tension circuits.

It signifies account may crose this neither your knowledge or your skill is at fault. The fact is that your set is incomplete.

## HOW TO CURE IT.

There are two ways. One person buys a new valve; this costs him at least Twelve Shillings and Sixpence.

A week later the new valve fails. Bang goes another

## Twelve Shillings and Sixpence And More Trouble.

But there is another person who is wise. He buys a Polar Filament Fuse, and this costs him

## SEVENPENCE.

He fits this fuse to his valve before it fails, and has

## No More Trouble.

Polar Filament Valve Fuses protect valves against all the orbitary chases of falls life and the globes go wrong the Polar Filament Fuse systems the shock, and saves the valve, incidentally saving you at least

## Eleven Shillings and Elevenpence.

There are three types of Polar Filament Fuses.

Type O. For Mullard Ora A and Ora B valves.

Type R. For Mullard RA, Marconi Osram R, and Ediswan R valves

Type A. For use in the HT battery negative lead to protect any valves 1 sing 5 amp. current or more against accidental shocks from the H.T. battery.

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ARERDEEN 2. Raddon St. LIVERPOOL 47, Dala St. SOUTHAMPTON,

## WEDNESDAY'S PROGRAMME.

(Continued from page 133.)

NEWCASTIE

| 6.30. |            | Corner · Prof G lubrust Talk |
|-------|------------|------------------------------|
| -0.17 | " Renults. | of Feeding Experiments."     |
| 6.40  | M F. M     | S. C. HAN S.B. from Lon-     |

When a Little While Has Flown." Lleyel

B.5. Orchestra.
Selection, 'Bongland" Selection, Widemas

B.15. MAY JORSON (Contents).

I have the man have the Mandal

B.25. GEORGE HODGSON (Tenor).

Love Could I Only Tell Thee." Geographical

If Then Wart P. id." Johnson

B.50. A a Harren

Printed to Sen. May be have noted as a find on the sen. May Joussey.

Blackbird's Song." Scott

At Elman Le. L. Kannytteer

B.50.

A Ding Da. a. Steen

B.09.30.—Interval.

9 0-9-30.— Interval.

I Lave Time Baste, Flowers Souderann

10.15. Orchestra.
Screetion. All the Girls to seem Williams
Vasc., 'Night a of Guinness' income 10.30.-- Close down:

Announcer : C. K. Parsons.

## ABERDEEN PROGRAMME.

(Continued from page 143.)

## SATURDAY.

30 .- The Aberdeen Wireless Quartette, 

Popular Old Songs and Aire.

Popular Old Songs and Aira.

15 THE WIRELESS ORCHESTRA
I Hear You Call on Me." Morehold
Hearts and Homes" Blockley
Worn the Heart is Young" Bock

7.0 Of ROSE W. L. RAE (Tenor)
Yes L. M. L. & Schoer Fai Wuba.
Ansa, Where Art Thou?" Wallace

7.40. RUHY CARROL (Soprano
"Love's Old Sweet Song" Mology
Mona" Stephen Scient
7.50 ROSERT E. ANDERSON (Bar tone
"Roses" Admin.
My Old Shake?" Trotere
8.0.—"HANSEL AND GRETEL," Acta L.
and H. B.B. from London.
9.30.—NEVS. S.B. from London.
9.40.—MR DAVID RORIE, M.D., D.S.O.,
etc., of Aberdeen, "The Forgotten Scrape
of Local History"

O. George W. L. Ras. D. Ca. va it Thorn " (By special request-) 10.20. Orchestra.

\*\* Nazareth \*\* American

The Bett ger

10 to a ser

S min . Love

10 40 1 to the Songa " worse con the second Politic 12,0.-Close down Actual W II Suppose

## GLASGOW PROGRAMME.

(Continued from page 145.)

## SATURDAY.

3.30-4.30.-An Hour of Melody. 4.45.-A TALK TO WOMEN. 5.15.—THE CHILDREN & CORNER. 6.0. Weather Francis or but a KILSTIN MA F V MCF CHOIR. 10.45. KILSTIN MAYE VICE CHOIL.

The Free ag Pastrane

Story

Relegion of to

Local Local Common

Local News and Weather Forecast.

#### A Night of Plays.

715. CHESTOA

Copy of Standard

725. Kulsyth Malp Voice Chor.

O Percetal Nght

Convs. Sor, Chept. Here.

737. The Nan IN Lab Street

737 THE MANING THE STREET

a One Art Play
(Louis M. Porker).

Produced y Charles, ROSS.

Characters beCharacters beStetle A Stade a West Kenangton.

Time The Prison

HO "HANSEL AND GRETFL, Acts I and
H A R from Landon

9.30.—NEWS. S.S. from London.

9.45. Orchestra.

Suite, "Desert Saite
10.0. "THE NINTH WALTZ."

B Oup Act Play

B One Act Play Produced by GEORGE ROSS.

Characters :Flarence and Rodand.
Scene The Ante-room of a Ballroom in

Mayla r
10.25. Orchestra.
Waltz, "Blue Danube"; Fox-trot, "Teddy
Bear Blues", March, "The Bruadcaster"
10.45.—Special Appendication, Close down.

Announcer : A. H. Swinton Paterson.

THE PUBLISHER'S ANNOUNCEMENTS. BATES OF SUBSCRIPTION to " The

Radio Times" (including postage to any part of the world) i Six Monties, 6s, 9d. TWELVE MONTHS, 12s. 5d.

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## Foreign Stations.

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Compagnie Française de Radiophome Emis-sion Radiola SFR Paris. 1,780 metres. 12.30 to 2.0 p.m., 4 30 to 6.0 p.m., 8 30 to 10 p.m. (On Sandays and Thursdays Radio Dancing at 10 p.m., Olose down at

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Radio Corporation of America. WJZ, Rest York, NY 455 motres.

John Wanamaker. WOO. Philadelphia, Pa. 509 metres.

L. Bamburger and Co. WOR. Rewark, N.J. 405 metres.

Pest Dispatch, KSD, St. Louis, Mo. 546 metre.

Rensedser Poly. Inst. WHAZ. Troy, N.Y. 380 metres.

## EVENTS OF THE WEEK.

.......

SUNDAY, JANUARY 28th.
LONDON, 3.5-5.9. Organ Recital relayed forms
the Coccurs Hall of the National leavings of
the Bind, S.B. to all Stations.
CARDIFF, 1.6. British Componers' Night. S.B.
to Landon.

MONDAY JARUARY Met. S.E. is all LONDOR, 7.21.- Popular Concert. Stations should Cardiff.

TUESDAY, JANUARY 25-d.

THESDAY, JANUARY Pland,
CARDIFF, L.R.—Literary Night.
LONDON. 8.65. "Tristan and helde," Act flWagner, remyed from The Royal Opera Histor,
Carona Gordon. S.R. to all Statissam.
WEDNESDAY, JANUARY Live.
LONDON, J.M.—Band of R.M. Granddov Guarda.
BIRMINGRAM, J.M.—"Simpled the Waller,"
p. Radio Plants-Rayton.
GLASGOW, J.M.—Scharbert Right.
THIRBULAY TANILADY 244.

TRUBSDAY, JANUARY 24th. LONDON, L.S.—An Rour's Chamber Music. S.B. to other Stations.

FRIDAY SANLARY 15th.

FRIDAY JANUARY 25th.

GLASGOW 80. Bures Mannerial Celebrations, relayed from Poorts Nature 14. Inc., Manchline, Ayeshure. 5 B. to other Stations.

DNDON, 16.18.— "Singfried," Act III. (Wagner). relayed from the Rayed Opera House, Covent Lardon. S.B. to all Stations.

SATURDAY, JANUARY 25th.

LONDON, D.9. Banad and Gretet," Acts II. and II. Humpers neth relayed from The Ruyas Opera House. Covent Garden. 5.B. to all Stations.

## THE CHILDREN'S CORNER.

CONDUCTED BY UNCLE CARACTACUS

## Uncle Jack Frost's Wireless Story.

H. LLO, (HIGDREX This week we have got a july story by Uncle Jack Front allow wireless works. Thope you will a I read

The you kind, I have been thinking and fundang and thinking as to the best way in when I can make this weeks talk it to you. I am ever so afraid lest I may be making you think that Wireless is not such as, thoughto understand after all. And I of my talks with "Once upon a time,"

have I fin shed with "and they hved happely rafter" End asn't it ? At any rate, let me see if this time I cannot start and end properly.

On a pon a time in a far country there rved a hatle boy and a little girl in a hut . he centre of some woods. Around the but was quite a beautiful open meadow of elearing in the sucrounding forest. The dat ame erman at he father's oill and table

A Fine Game of Ball.

Tell a boy had seen a er a argumbsembler hall for a present and the tile suri had received a doll. Though bil the little girl, was very fond of playing with her doll, she was always quite reads for a came of ball with Jack, her bruther Semetimes they played at throwing the ball high into the branches of the trees on the edge of the meadow, and sometimes they kicked it along the ground

Though Jack was a boy, and more used to knowing the half than Jill, yet some times the little girl could kick it quite as for arries the smooth meadow as her prother en dit

me day their lather was watching them nt play, and told them that he would we sixpence to the one that kicken the hall re furthest across the meads w from the found of the entires.

First Jill ke-ked the hall, and then Jack Somehow, ner her of them second to kick it as far as they used to do when playing a gether, but dack with in the end.

I ten father offered another expense to the one who could win in a race around the meadow. Jill was the winner.

Then, hot and tired they est down with their father in the grads near to the cottage doand Jack, who was a very inquestive kind of

on, largen to sak lots and late of questions battur," he said, "when I kicked the built stress the grass, why did it not go on rolling and reliving ever so far, instead of going slower that slower until it finally stopped ?"

## What "Resultance" Monat.

at ser looked at Jill, who generally had an answer ready for Jack's many questions, quite rappeting that she would answer. And he was not disappointed, for Jill, with quite a postice com towards Jack, said : "Because it gets t red like I do sometimes after running a long viav, and goes alower and slower until it stops."

tather smiled to himself, and explained that toe had has weight, and as it rolls al-

moral it meets with a certain amount of it is, "You see," father if I were to rub my head on these than p and dawn, it would soon be list and sore, we let up t ? Well, the reason of that as that

friction or turn or, in other words, resistance to the passing of my hand over the wooden side of the chair. In the same way the surface of the ground offers resistance to the passage of the ball across it said the force with which the sall was kicked by Jack in the first place in lessened by the resistance offered to it by the variace of the mendow. The force with which lack hacked the balt in measured in pounds weight. Of course, if the bid, had been kicked up hall, not only would the resistance of the ground have had effect upon the slowing down and finally stopping of the ball's rolling, buyon would find that the law of gravity itself

A PRETTY LITTLE BROADCASTER. Miss Murial Hanry, who, although only eight years old, sings at Glasgow Station.

would tend to bring the ball to a standstill in the course of tanic."

"How funny it would be," Jill said, "if, when you kicked the ball, it went on rolling and roding and rolling and never stopped.

" Chels always tack like that," said Jack, " but I should not take any notice of her, father, if I W D 11.

Father then began to expend to them that there were other things besides indiambher onds which, when thrown or pushed, or evolwith any force along the ground or through a wire, that with resistance. "Through a wire, did you say, father?" Jill asked. "How could anything go through or along a wire !

Her father then explained to her that electricity 'rayels along a wise called a "confluctor," unt a tram-cool stor of course, but a conductor of electricity, because it conducts electric current

oction than other that in which are tailed as dators." Even an insulator is in some negree a conductor, though what we call good conductors are, as their name impies, much

better mediums for the passage of correct than mentators.

An electric current is passed along a wire from a bettery or accumulator and, provided that it has a path whereby it may return to the place that it came from thecause it likes to go home like you and Jack), it will flow along the wire back to the battery or geenmulator The pressure which is used in sending the chris . 1 from the accumulator along the wire is measured

what are called volts. The resustance with which it meets as it passes along the wire is measured in "ohms," and the quantity or amount of correct which passes along the war-is measured in "surprop-

Neither Jack nor Jill could possibly understand exactly what this meant, so father explained to them that if he had a pipe fixed to the mouth of the pump standing outside the cuttage coor, close to where they were sitting, and if he were to pump on the pump handle until the water party of the pump along the pape, it would be something tike the flow of electricity along a wire. The force with which the pump handle was moved up and down, and the force with which the water guahed out into the pipe, is seen thing like the force which is used for the passage of the current from the or w istor on its way around an electric circuit

#### The Water and the Pipe-

If the water were measured as it gushed ust of the end of the pape, and we knew it to be so many gallons, then that was just like the amount of electric current which has passed along the wire

Again, as the water rushed about the pipe, it would be rulibing the whole way along against the sides of the pape, and this rubbing, or friction, would tend to atop the flow of the water: but secures the power used in working the pump handle is so strong, this resistance is overcome and the water gustes out from the end of the pipe. The resutance to the flow of the water along the pipe in like the resistance to the flow of the electric current aking the wire. If that pipe were had absolutely flat along the ground, neither uphill nor downhill, and were a very long one, then you would fine that the water

would not flow out of the pump with such a rush, but would flow out of the end of the pipe quite slowly And now, chudren, I am a ag to wind up my story in the proper way and Jack and Jd. played happily ever after

## What an "Ohm" in.

You have often heard grown up people talk about the phones which you wear being of 2,000 or 4,000 ohms resistance, and I expect you have often wondered what an "ohin It is just that tiny force which offent cosistance to the flow of the electric current through an electric olresit, and the expression "2,000 of ma" only means that the resistance offered by the windings of the wire inside the head phones is 2,000 ohms.

UNCLE JACK FROST

Mas Mariel Henry, aged eight, whose patters you are on this page, has a charming soprano voice. The engineers at Giosgow Station say that every word she sings is as clear as a bell

(Continued on the facing page.)

## The Children's Corner, (Continued from the facing pages)

SABO AND THE BLUE-BOTTLE. By E. W. Lewis.

A LTHOUGH Sabo was no longer used as a pen-wiper, but was now a gentleman of no neceptation, he remained on the writing table in the sitting-room, and stood goord over the silver ink-pot, the gloss tray for pens, and the little drawer in which the stamps were loopt He was not at all tonely, for quite a lot of interesting persons wished to make his acqueint ance. The Blue-bottle for ustunce

Early this morning, before anybody was downstairs, the Bine bottle flow down on to a patch of muh, ht which lay on the writingtable ; and he stand there, clean ug his wings with his least

All of a sudden, and without any introduction whatever, he said to Sabo: "You can't do that !"

Can't do west ! said Sobo, looking down

an him in surprise 'That," said the Blue bottle, having stroken one wing with one k g, and the other wing with are her leg, and then both wings with two to a stiff to same time.

What do on how for a ballo asked I'm combing myse for replied the Blue

Then the Blue-bottle flew straight up the stateous as far as the window, came skitning down it back again, and alighted on the table with the greatest case.

You can't do that, either," he said No, and I dun't want to," Sabo strilly re direct

What cas you do ?" saked the impertment If you can't fly, can you walk?

Of course I can walk," said Sabo indiguantly
But can you do this?" said the Blue-bottle

as he flow up to the ceiling and walked across it upside down. "Do you see what I'm doing ? be called from the sailing. "Walking upade



Sabo let go and fell head first to the floor with a terrible bump

down, do you see? And then he dropped with a little thud on to the table again, and walked about a bit there. "Now I'm walking right side up !" he said. "I can walk right side up, and I can walk upside down, and I can

tiy! . . . Let me see you walk!
Salm strode to and fre across the table.
"There ' be said, " you see."

' If I'd legs like yours,' saut the Bue-houtle,

I'd walk over the house and wer the more! You re a good wasker, I can see that-right side np. Cap you wask upside down I've accer tried," said Salo.

But you've got feet?" The Blue bottle langhed. "Try. It's quite easy. You just put your feet on to the ceiling as you put them

and he so teased and builted Sabo that he succeeded at last in persuading him to try.

Sabo climbed up the ourtain, and when he got to the top, his tormenter was wait ug for ham.
That's very good," and the filter-bottle.

You, put your feet on to the calling—and the other-now, let go, and you'll see !

Saho let go, and fell head first to the floor with a terrible burny.

Sabo picked himself up, and went back to his place on the table, feeling very wicked. The Blue built joined him there, "That wasn't a She boate joined him there. "That wasn't a very good try," he said, "but it was the first time. You'll manage better after a bit. Then an idea came into Sabo's aching head think do you manage to do it?" he anked I don't manage," replied the fly, "I just to the sale of t

I wish you'd show me how," said Same "Well, watch " said the Blue-bottle, and flew

Too far away," cried Sabo.

There's nowhere else nearer," said the Blue bottle

" What about this?" said Sabo, opening the top of the silver ink pot-

That shot his enough to walk on."

Hu I cale want to see how you put your fert, 'said Sabo cagedy Pleas' All right, 'said the Blue buttle, "Now watch closely, 'and he flew on to the inside of the lat.

Sabo materiately shut it down, and sat on it (Another "Sabo" Story Next Week.)



## That's pretty smart of you, Williams!

Ed., I must could be not too bad for a first attended I in going excellent results from the co."

Tell that how  $491\ \rm you\ obtain$  , and amounting and  $1001\ \rm f$  , suppose you have had some very of engineering transling r

on no My fot it is the transmission—The period bear of many works in my life. As a statter of me it was a most who pair me up to it. The case those the it is no a finish up a really great set from beardy made various with

It is a very conditable plan of work—I and congratulate you. I suppose throath showed you have

"Not a lift of it. He merely added in a get u tipy a book called Terrico Terrico for and and to follow the instructions. By the way and tog is home from school why not spend a couple of eventures or so with the pasking up a good Set?

he not a st night, I know he is at a life of a look and Lett me make a note of the book sea II cell in at the bookstop on the way home for

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## HISTORIC OCCASION.



THE ARCHBISHOP OF CANTERBURY BROADCASTING.
One of the most important events in the history of wireless occurred on New Year's Eve, when the Archbishop of Canterbury broadcast from the London Station. Never before has such a distinguished Church dignitary addressed the world by means of wireless. His Grace is here seen before the microphone in the act of delivering his message.

## People's Opinions. Other

## USEFULNESS WITHOUT DREAD

TO DAY the listener in America may be one with an audience assemble. In some coom in London; to morrow boath Albrea Laras and Austrana may all at the same mement be aburers in enteria weents produced in Great Britain. The unital lifticulties have been overcome, the range of time unleaded extends practically with every

The new generation will regard it as no more remarks do to converse with Symaev than the man of to-day does to get a trunk call from Pures or Glasgow. Of a andren the world seems to cramp deelf ato the smallest area. And of wireless telephony we may say that no great invention has ever brought so much permise of usefulness to mankind with so few possibilities that could give us cause to dread Fording aster an est.

## WIRELESS AND MUSICAL INSTRUMENTS.

A FIER a good six months' experimenting in the way of programmes, it is possible to state which instruments transmit the best The organ, strutge as this may seem, is the worst. King of instruments as it is, it fails to arry over adequately

The voice is good if the suger maintains an aven distance from the microphone, and the same may be said of the violin, but it is sale to say that the two best instruments are the piano and the vicinatedo. With both, of course, the quality of the payer counts. The 'cello sends forth its broad resonant tones splendall. Amoteur Wireless.

## ANNOUNCERS AS TEACHERS.

HAPPILY for us, the officials of our Broad asting Company have been well chosen and are all educated and refused men and women, who use outrivated sanguage to which st is a pleasure to osten.

I us he in America, the very tones of our own princancers, voices are an inclustion of a back. ground of education and culture. In America, ft seems, one bears daily slips in grammar, faults in dietson, and the mispronunciation of both Eaglish and foreign words.

In England such slipshod broateasting is unknown. We look upon our announcers as testhem. And they are, William Le Queux in The Scot's Pictorial

## ARE YOU A " MIDDLESHOW '?

O'le o'ry am sing aspect of broadcasts of the on much aqualibring as to the relative ments of batchess and lowbrow music. The logalizous adopt a Johnsoman saresem with regard to "jaza" and other popular" forms of—ar—melody, while the lowbraws are rather apt to wax vituperative on the surpassing dualiess of—er—"classical"

Mier all it is a matter of taste. Some pre-fer. The Poet and Pensant to a Revaluerasymphony, and vice versa, but in all fairness to the B.R.C. I cannot agree with correspondents who declare that too much popular music is broadcast, nor can I agree that too much inscient music is broadcast. The mixture seems fairly equal to me. Perhaps that is because a am a muddle-brow—always a safe attitude.— Il treless Region

## CAN YOU ANSWER THESE QUESTIONS?

An Article for All in Business.

The state of the s

And yet, you will agree, they are all you had you men't have to go you busin. own busines to a serious an account

## 14 SPECIMEN QUESTIONS.

The state of the s and with the second of the sec

## HOW MANY DID YOU ANSWER?

The first of the property of t

#### HOW THIS CONCERNS YOU.

in the second of te que transport

#### TWO OPINIONS.

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ternal as the things of a is. Ta

## Letters From Listeners.

the process of the state of the

## The Authorship of "Some Day"

DEAR Siz. I have not read the short article. by A. B. Cooper on "Some Day," and hasten to correct a great matake. The words of this r patter song were written by my old friend High Conway), the gifted author **Ратица** 4 talted Back." He and I, and my brother, b E. Westberly were hove together and we sept up our friendship till his sad death from typhuid at Nice.

F. E. W. was then writing many so is for M. ... Wellings and other known composers and was one of the first to congratulate Fred turgus on the great success of "Some

Yours bothly lly

LOYEL A. WEATHERLY M.D.

for contributor states that Milton Wellings stated to be the act for of the words of Some Day," in an a dersion published one a Fig. 4-16 Pt. D. St.

## Parrot's Cage As Actial.

DEAR Sin,- Has a bross parrot cage ever been so lo others as an shoot perist

I was astonished at the excellent results stained in this was with my three valve set The London Station concert was heard per feetly clearly with three pairs of phones.

Ferhaps this may interest reoders of The Ranno Tomes.

Yours In this it.

Brentford.

#### Long-Distance Results.

DEAR Str. - I have been reading, with interest, readers' results on orystal sets, and throughtyou would like to hear of mine

On December 23rd (Sanday) I was able to receive the concert sent out at 6.15 p.m. from FL (Paris), I could bear speech, songs, an instrument which was probably a violin, and the piano, which latter came through very wellmidsed

I have received the weather forecast transmitted by FL at 6.40 a m almost every time I have hatebed for st. Much of the speech is jammed out by the Marcon Station at Ongar. GLA) transmitting on 2,000 metres was to though

Yours fact-fully, Stoke Newn aton, N

## Drawing the Nations Together

DEAR Str. I feel compelled to me my congratulations on the excellent programmes broadcast every day

One grudges the time one has to spend away from the wireless receiver. Bessig in the Bourne month area, we do not communed until 3,45 and the following hear is a real if were treat-

Having no young children in the bouse, we teer conselves away for tea somewhere about 5.20, but even then keep packing up receivers, to be amused by the brilliant Pheles Chat to the Kiddies.

Then the Schouers' Hall Hour What an advantage ! But I take the liberty of making the suggestion that we may soon have the privilege of recoving something in the nature

of a French sesson on certain even as to rime this would prove a very attractive leature, considering the numbers of children who are leaveing a k not of French which, in the majority of cases, they will only be able to read (owing to lack of officient French teachers) and not to pronounce peoperly

I think that wireless has a great mission to fulfil in drawing the nations together Surely, the commencement was made the other day when your wonderful engineers were at success ful, after their long and ardunus trials, in transmitting the American programme so distanctly even on a crystal set, such as mans as

Yours faithfully,

Rosasev Hants.

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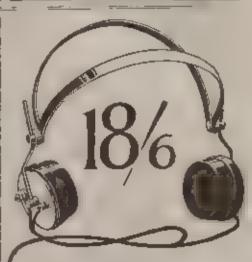
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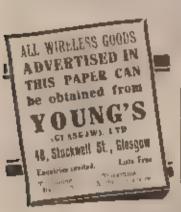
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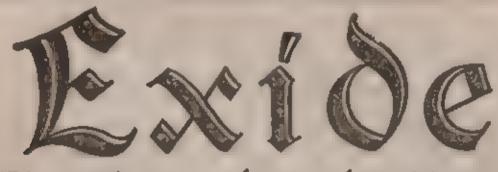
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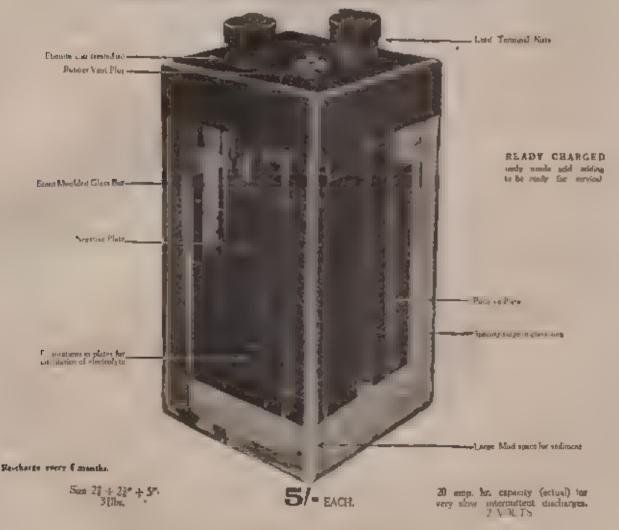




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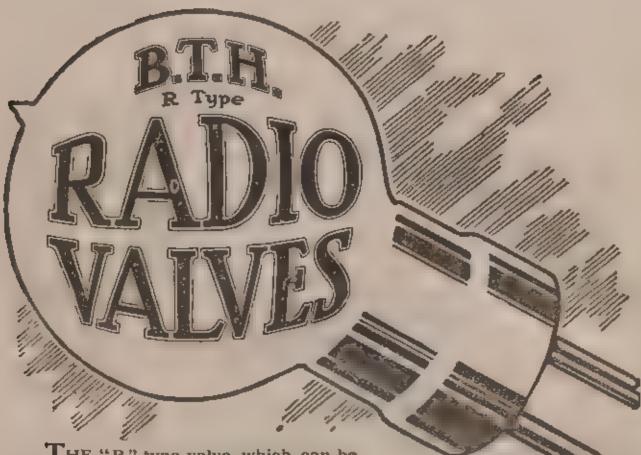
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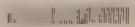
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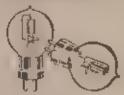


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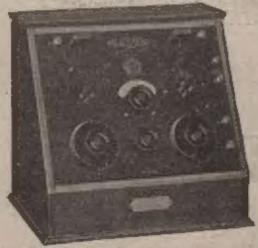
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