Radio Times, August 1st, 1924.



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EVERY FRIDAY.

Two Pence.

OFFICIAL PROGRAMMES

THE BRITISH BROADCASTING COMPANY.

For the Week Commencing
SUNDAY, AUGUST 3rd.

LONDON CARDIFF
ABERDEEN GLASGOW
BIRMINGHAM MANCHESTER
BOURNEMOUTH NEWCASTLE
SHEFFIELD (Relay)

PLYMOUTH (Relay)
EDINBURGH (Relay)
LIVERPOOL (Relay)
LEEDS—BRADFORD (Relay)

SPECIAL CONTENTS:

ART AND THE WHEEL ELEMENT. By E. Temple Thurston.

BY RADIO FROM THE STARS. By Joseph H. Elgie.

CHEMISTRY AT THE +DRESIDE.
By Professor R. M. Caves.

OFFICIAL NEWS AND VIEWS.

RATES OF SUBSCRIPTION to "The Radio Times" (including postage): TWELVE MONTHS (Foreign), 15c. Sd.; TWELVE MONTHS (Driftish), 13a. 6d.

The Wireless of the Future.

By The Rt. Hon. TOM SHAW, M.P. (Minister of Labour).

To sit and mentate on the future of wireless sound transmission is indeed a faseinating pastine. Even new in its very infancy, wireless is having a profound effect on National Life. Every village institute with a loud speaker is a centre of active interest, and the village and the capital city, formerly divided by a great gulf, nicet on common ground. But what of the future?

When Shakespeare made Puck say that he would put a garde round the earth in forty minutes, he had given full flight to the most glorious imagination England has ever produced. But forty minutes, to the modern wireless magician, it a long time. Forty seconds suffices now to do what Shakespears only dreams of

What is to follow? Who can say that there is not as much yet to do as already has been down? Who would assert that wireless conversations in the future will not be as easy to conduct as modern telephone communications are now? And even now who can estimate what wireless means to the human race?

Let me give a small example to show what I mean. A few months ago one of the principal means of communication to a certain large city was stopped. By an arrangement made lake at night it was found possible to restart the norming after. Under the old conditions hundreds if not thousands of people would have befure it was necessary in order to arrive at their work in time. But wireless was called into play—and the interest and convenience of thousands of people were served.

If we recall the first days of the Great War and the burning anxiety of the people to know the latest developments, we shall not need much imagination to foresee what will be possible with an improved wireless system should such a calamity visit us again. Every town in the country—I am speaking of the small provincial

towns -will have its installation, and the Intest news will be known in the villeges as soon as it is known in London But wireless communication does not finish its benevolent. activities by the announcement calamities. Think for a moment of its use at sea. So for as I know, no one has attempted to compute the lives



NUMBER OF STREET

it has saved on the vasty waters. And it is only at the beginning.

There are limitless possibilities for good, there is a possibility that it may play its full part in avoiding the horrors of war. There may be differences of opinion as to the principal cause of wars. There can, however, be no difference as to the fact that misunderstardings and lack of knowledge form together one of the principal causes, if not indeed the principal cause. Our leading statement do not know each other well enough, they cannot by the very mature of their work meet often cannot by the very mature of their work meet often cannot to exchange opinions.

The peoples are almost factastically ignorant of the outlook and the methods of each other. For instance, only a few miles of son separate this country from France, and yet the two peoples are not only strangers, but the average Fronchman a idea of the average Englishman is quite wrong, and the Englishman's idea of the ordinary Frenchman would be a screaming joke if International misunderstandings were not so serious.

(Continued overlaf in column 2.)

Stories of Sacred Songs.

Hymns That Made a Sensation,

EVERYBODY knows that there are some and pictures which make a sensation when they are first heard and seen, but une does not associate sensationalism with hymns, as a rule. Nevertheless, there have been hymrst the popularity of which can only be described by that word, hymns which have been sung everywhere, and frequently paredied into the bargain. Middle aged lolk, for instance, will call to mind "Hold the Forth" which appeared. with its stirring towe, on the that puge of the very liest seam of the famous Mondy and Sankey " hymm-book, back in the seventies of last century. There was ont a city arch or a farm labourer who did not whistle it, and who did not know the words, and it was owned feasily parottied.

"Hold the Fort."

The late Lord Shaftesbury, in whose memory the famous fountain in Piecadilly Circus was erected, and the adjoining thoroughlare named, one of the greatest philanthropists this country has known, declared that if the two great American evangelists had done no more than teach the people to sing "Hold the Fort!" they had put the British Empire under a lasting obligation.

The origin of the hymn was sensational, P. P. Rlies, who wrote sud set so many " Saakey hymns, was at a Sunday School convention six years after the close of the Civil War in America, and one of the speakers told a story of a military post being surrounded by the enemy. Just when the position seemed enemy. Just when the position accorded desperate, an officer caught sight of a signal flag twenty miles away. From hill-top to hill-top flashed the carsange: "Hotel the fort; I am coming. Sterman," and the allustion was

Ao Immertal Hymn.

This story immediately suggested the hymns to the receptive mind of Blins. The next day be was holding a meeting at Chicago, and he wrote on a blackboard on the platform :-

Hold the feet, for 1 am coming, Jesus algunds still; Wage the answer back to heaven, By Thy grace we will

He then same the tune he had sef to it, the andience joined in, and the hymn was started on its voyage round the world.

So far as the words are concerned, there could not be a less sensational hymn than the one beginning with the beautiful stages :--

There were musty and mus that safely

In the shelter of the fold; But one was out on the hills away Far off from the gutes of gold: Away on the commission will and bare, Away from the tender Shepherd's care,

yet few hymns have had a more sensational introduction to the world of a wider popularity. In the first place, the woman who wrote it would king since have been numbered with the "forgotten dead " but for this one immertal hymn.

The Singing Evangelist.

But Fre D. Sankey bought a paper at Clasgow, as something to read, as he entered the train. He found little, however, that interested him, and was just casting the in an obscure corner of the paper, probably used as a "fill-up." They were unugued, but subsea a "mi-np. They were unagned, but arb-sequent investigation proved beyond doubt that they were written by Miss Elizabeth Cecilia Clephane, a daughter of the Sheriff of Pifs.

Mr. Sonkey read the verses, was greatly impressed by them, cut them out of the paper, and put the outting into his unintenst pocket. The two evangelists were en routs for Edinburgh at the time, and on their second right there. Mr. Moody preached on "The (had Shepherd." afterwards saking Mr. Sankoy if he could sing something appropriate. The singing eventelist was " stumped;" He turned over the pages of the hymn-book in great perpective, and then, came before his mind's eve-

A Blied Hymn-Weiter

The very dung! But there was no music to the words, and how could be sing to an audience of five thousand with only a copy of verses before him? But Ira D. Sankey was a man of faith as well as song, and he straightway set the words on the mosts stand, played a few bars, and then improvised the famous tone to which it has been sung ever since. Its effect upon the nudience was electrical.

Another hymn which had a sensational career is "Safe to the Arms of Jesus It was written by Fanny Crosby, a woman who had been blind since she was a babe of six weeks, and who wrote not bundreds only, but thousands of hymns, many of which became popular, but none nearly so widely known as "Sale in the Arms of Jesus." Curiously canage, it was one of those hymns which were written to a tune already in exmence.

Some Dramatic Incidents.

The tone was written by W. H. Donne, an American composer, who brought it to Mrs. Van Absteyme—the macried name of Fanny Crossly—and asked her to write sums words to it. The composer sat down to a small organ and played the tune over, and immediately the blind hymn-writer said. "That tune says, bale in the Arms of Jesus." Karny Crosby retired into a room apart for half an hour, and returned with the finished product as it has been sing by millions in half the longues of

Of dramatic meldents connected with hymns there are many, such as the singing and playing by the band of "Nearer, my God, to Thee when the Tifanic was sinking. But here is one of a simpler hand which may not be so well known. On Armetice Day, a hig army lorry was in the neighbourhood of the Horse Chards Pocads. It was filled with munition girls with whistles, booters, and gay ribbons flying. At that moment a Red Cross ambulance came into sight covered with the Union Jack and six R.G.A. men walking beside it. The crowd stood bareheaded. The army lorry pulled up. The girls stopped their ragtime and sang: "Now the labourer's task is o'ce." It was as moving an incident as one could see.

Branck Plucked From the Burping

On the very night of the fire at Epworth Rectory which so nearly cost John Wesley his life at the age of five, his lather, Ramuel Wesley. bad been in his study writing the well known byme, "Behold the Saviour of Mankind, the manuscript of which he left lying un his writing table before he retired to rest. attle son and the leyons were both matched from the flames, the one on the shoulders of a rustic standing on the shoulders of another, the other blown from the burning building and picked up a day or two later by a villager who happened to see a piece of paper blowing about. They were both "brands placked from the burning PAUL PRESTON.

The Wireless of the Future.

(Continued from the provious gage)

Can wholess do anything to remedy this state of affairs? I am speaking as a layman, but it seems to me that it has a great rile to play in the future. Let us begin with our own "wide flung Empire." It is abviously almost impossible for men continually to travel the ownthe Empire to attend conferences, but it is vitally essential that densultations should frequently take place in order that the fullest possible understanding and good will should prevail. I know what can now be done by cable and by telegraph, but that is not compli-Is it too much to hope that technical process. within a few years, will allow, say, Canada, Australia, and Britain, to talk together, freely as if in the same room by nowns of wireless !

Think of the Prime Ministers, Viceroys, and Governors, all being able to attend an Empire Conference without leaving their posts! What is to prevent it? He would be a bold man who would maintain, with the present extraoreneary development before his eyes, that the idea is impossible of realisation. What is to prevent, oven now, if it were desired, conversation between the leading statemen of Faroge | It is quite possible, it is indeed comparatively casy, It may be that no way has yet been found for preventing the tapping of the "wireless talk." Is it impossible to find a way of conflucting these interchanges of thought in a privacy as great as they now enjoy ? It is murely not beyond the wit of men who have imagined and realised so much to add quother laurel to their crown, Would it not conduce to the good understanding between notions if their leading statesmen could casely and freely converse with representatives of all parties present, if necessary, to hear the conversation? And why not, in times of difficulty and danger of entrangement, the whole Parlunumbs listening to the debates on specific subjects in the "Chambers" of other countries?

The development necessary to make these things possible is apparently a mero detail in comparison with what has already been achieved. After all, in apite of what certain very superior persons may say, words are the very basis of all human life. A man's word is the foundation stone of all human intercourse, progress and commerce. A man s word has sent millions to death. Laster could not have saved millions if he had not been able to communicate his discoveries by means of words. Understanding and good feeling throughout the world must be registered in words. But you cannot discuss matters with a piece of paper, you cannot ask questions from a rable.

2.

. . Can wreless bring the living word from one end of the world to the other to the service of good understanding and prace? I not only believe it can, but that it will, and that a few years from now the MacDonalds and the Herriots will be able frequently to exchange greetings and information, that merchants will be able to conduct commerce, that scientists will be able to make discoveries public, in a way quito unknown at the present time. And in the ecching and coming of peace amongst the nations I hope and believe that the wizned wireless will play his beneficent part. As sevence Is making charmous strides we may even hope to see, as well

as hear all weary world.

the "bring-ers of good tidings" to a somewhat

Official News and Views. Gossip about Broadcasting.

From Navvy to Author.



Mr. PATRICK Mesdill

ONE of the most remarks of living movelists and paets is Mr. Patrick Mar-Gill, who was born in the wilder parts of Donegal, and was educated at a very elementary mountain school. Belween the age of twelve and maeteen he worked as a farm servant byre-mandramer, potato dieger, surface man, and narry, but before the authorak of war he achieved fame

with his 'Children of the Dead End.' He is now a successful author of many publications and a sectorer of no little charm. Listeners will have an opportunity of hearing him on August 5th, when he broadcasts at the London Station of Irish Humour." This talk will be S.B. to all stations.

Broadcasting and Adult Education.

At a recent conference of the British Institute of Adult Education held at King's College, London to discuss broadcasting in its relation to adult education, the debeater represented a very wide sphere of educational activity

After a preliminary discussion the conference was pointed by Mr. J. C. Stobart, our Educational Director. At the request of the Chairman, the Rev. F. E. Hutchinson, of Oxford, Mr. Stobart outlined the educational programme of the Company for the coming autumn.

Instruction Without Boredom

Baving sketched in detail the plans already formed. Mr. Stobnet invited criticisms and appreciation of the potential educational value of broadcasting, and agreed with Mr. Stobart that instruction must be brought into the programme without undue stress and in such a manner as to interest and not to bore listeners. The best hours for transmitting the various series of talks were briefly discussed, the general opinion being that 0.40, 7.15 and 9.45 p.m. were suitable. The present hour of 4 p.m. was considered to be too early for workers and homewives. This being an invariable base time for the latter.

Useful Suggestions.

Many interesting suggestions were made by the delegates regarding agricultural and rural broadcasting, general educational talks and insupage talks. The Chairman said that the Institute was anxious to be helpful, and, throughout the conference, it was clear that the delegates were desirous of confering assistance and odvice.

Talks on Agriculture.

The Agroultural Talks given during the spring from the Glasgow Station were received with great interest, particularly by farmers. As a result of inquiries and questions put to him, arising out of his previous talks, the lecturer has consented to give a second series. The lecturer who provoked this interest was Prote or W. G. R. Paterson, B.Sc., N.D.A. (Honours), Principal of the Glasgow and West of Scotland Agriculture College. He comes of a highly-gibed family of Scotlash farmers, and was bore in Upper Annandate in 1875, and was clus sted at Modfat Academy. He left shoot at the ago of fifteen, and worked for a number of years on his mother's farm. Later, he entered the

University of Classow and took all his examinations in the minimum time slowed, gradienting B.Sc. in Agriculture in 1905. In the same year at Leeds he took the National Diploma in Agriculture with honours, a distinction gained by very leve. He was immediately appointed Junior Assistant to Principal Wright, of the Clasgow and West of Scotland Agriculture College, and at the early age of thirty three was manimously selected Principal of that college.

The dates arranged for the second series are August 27th, October 17th, and November 7th,

A Wonderful Fest of Memory.

An Operatic Evening, consisting of Arisa with orchestral accompaniment, has been arranged at the Cardiff Station for Sunday evening. August 10th, in which Miss I wits Lemon and Mr. William Michael will participate. Mr. Michael is probably one of the finest Beck mersers in the Meisteringers in England and when Wagner's Riso was produced in Landon, be performed the extraordinary feat

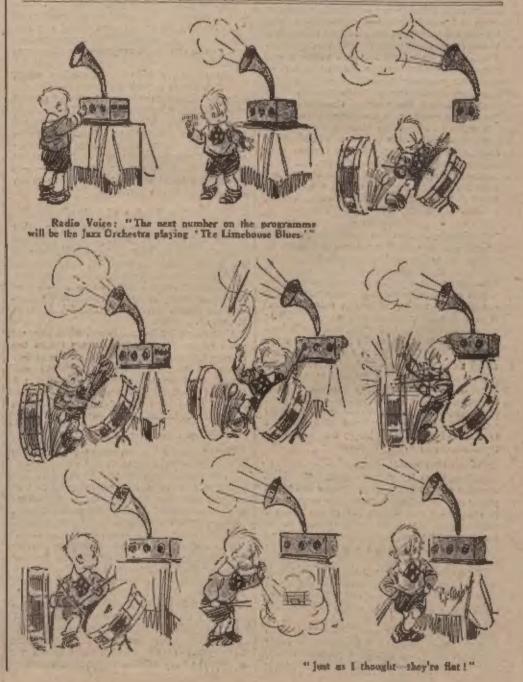
of memorring the whole of the deficult ville of

Miss Lemon is also a first-class artest on the lighter side and her rendering of "Chernbino" in Figure was a remarkable achievement. Her performance in Bome Ethel Smyth's new opera, Péce Galarie, was a remarkably fine piece of work.

The Overture from the Meisters'ngere, performed by the Station Orchestra, will also be included in the programme.

A Napoleon Programme.

The authorsory of Napoleon's birth, in 1760, occurs on Friday. August 15th. It is to be celebrated at the Mauchester Station by a special Napoleon programme on that evening. The programme itself is an attempt to perform caough cause directly connected with Napoleon to last the full evening. Extracts from Thomas Hardy a "Dynasts" are to be recited, and notes on the mass, and the period, will be prepared and read by Mr. Moses Baratz.



Chemistry at the Fireside.

A Talk from Glasgow by Professor R. M. Caven, D.Sc., F.I.C.

ONE day last winter you ordered a load of cool, and had it piled, heavy and black, in your coal cellsr. Little by little, lump by lump, you brought it and put it on the fire. You were warm and cosy in the evenings, and in the mornings someone taked out the sales and threw them away. Now your coal cellar is nearly empty. Where is your roal? What has become of it? What have you to show for it? You have nothing to show for it; nothing but the coal bill and the ashes!

What has become of the coal? The usual been burnt up. The coal gives out its heat, and nothing else matters. But it does matter in mattern to chemistry what becomes of the coal when it burns.

Instead of coal you get heat. Is, then, coal turned into heat? It would seem so, and turned into heat? It would seem so, and thought that all fuel, all combustibles, contained an element-the element Fire or Phlogistonand when the fuel hurnt the fire or phlogisten come away from it and made itself felt as heat. The burning coal gets less and less; evidently it is losing comething; that something is heat. What could be simpler? Great chemists held this theory 180 years ago, so it is not to be despised; nevertheless it was wrong, because some important facts of the case were quite ignored; indeed, the essential chemistry of the process of combustion was not understood at all.

Everyone knows that without air coal will not burn. Cool is mostly carbon, a black solid; and in order to burn, this solid must have exygen. The air supplies the exygen, and huming is the chemical union of the element earbon with the element oxygen to form a compound of these two elements which is called carbon

Combustion.

Combustion, then, is combination with caygen; it is oxidation; the combustion of earbon, of which coal chiefly consists, is the conduction of carbon. That, however, is not quite enough to say. There is exidation which would not usually be called combustion; for example, the rustrag of iron is axidation, but it is not usually called combustion. When oxidation is intense and rapid, and much beet is given out very quickly in the process, there is fire; and when with fire there are gases which thine with their own light, there is flame.

Now there comes an interesting question. Why is it that black, solid carbon, when it burns, produces invisible carbon dioxide gas ? Or otherwise: Why is carbon dioxide an invisible gas ? That question is not often answered in the teaching of chemistry; but I want to try to answer it.

How Atoms Form a Solid.

Carbon when it burns produces gas. common combustibles, such as paper and wood, yield gases when they burn because they consist of elements whose coules are gases; but the metal magnesium, for example, when it burns, forms a solid oxide, which we call magnesia; this is seen as white smoke, and settles as white

Our question therefore is this: Why is magnesium exide, the product of combustion of solid magnesium, a solid, while carbon dioxide, the product of combustion of solid earbon, is a

PRO F In suggestion ortide every magnesium atom has eix oxygen atoms as neighbours, and story exygen atom six magnesium atoms. This is true throughout the mass of the magnesium axide fragment, except just at its surface, where the outside etoms, whether of magnesium or of oxygen, are bounded by the air.

You will want to know how the different atoms stick together to form a solid. We need to any that the atoms of magnesium and oxygen were joined together, one stom of magnesium with one atom of oxygen to form a molecule of magnesium oxide, and that these MgO molecules were than united together by the force of cohesion to form a solid.

The Power of Attraction.

Now, we know that the atoms in a crystal are held together by the force of electrical attraction, for which the electrons, those tiny atoms of negative electricity, are responsible, Before they combine, the atoms of magnesium and oxygen are electrically neutral; but when they combine, the atoms of magnesium lose each two electrons, and so become charged with positive electricity, while the atoms of oxygen pulo each two electrons, the two that have been lost by the atom of magnesium, and as become charged with negative electricity. And thus the positively charged magnesium atoms and the negatively charged oxygen atoms attract one another, and so the compound magnesium oxide comes to exist.

The attraction of each magnesium atom, however, is not for one oxygen atom, but for six; and similarly the attraction of each oxygen atom is for an magnearum atoms. So the power of attraction spreads from atom to atom, and a bit of solid magnesium oxide, compounded of untold millions of separate, electrically charged atoms of magnesium and exygen, is formed. That is why-or rather how-when magnesium burns it produces a solid powder, and not an invisible gas.

The Wonders of Carbon.

Now let us return to our coal fire, or rather to the carbon in it. Carbon is a wonderful element. It is the element which is the basis of the bodies of all living creatures, including man.

Carbon atoms are joined together firmly in a network—or apaco-lattice, as it is called— stretching out in every direction, and electrons are the setual cementing material between the atoms.

Now let us try to understand what happens when carbon burns, when oxygen enters the glowing fire, and peaces through it. The carbon atoms are turn asunder and scattered; and carried off between two oxygen atoms; and they are carried off separately, they are not allowed to go in company. So carbon dioxide gas CO, is formed.

The Independent Molecules,

Carbon dioxide is a gas, because every particle of it is CO₂—and only that. The molecules of CO₂, each composed of one atom of carbon and two of oxygen, lead an independent and separate existence, moving very quickly about and never uniting into bigger particles, until they are tamed and brought together by cold and high pressure, and so made liquid or molid.

The carbon and oxygen in carbon dioxide are joined together by electrical attraction by means of electrons; but this attraction is local, and not diffused; "it is satisfied and exhausted by simple union. That is why carbon dioxide is an invisible gas, for nobody can see separate molecules, made up of one stom of carbon and two of exygen. That is why when coal burns it burns away and disappears leaving nothing to be seen. That is the story of combustion; part of the story of what happens as we sit by the fireside.

On Self-Expression.

Estracts from a Talk by the Very Rev. J. Gough McCormick, D.D., Dean of Manchester,

WHAT a jolly interesting thing life in ! At five years of age it is an interro-gation; at fifteen, a jug-saw; at twenty-too, an experiment with high explosives; and at fifty a battlefield, a watch-tower, and a reference library all in one

And part of the jolliness of it is that you can be interested in it as a study even while you are living every minute of it. You need not join the renks of the folk who are always pulling up the roots to see how they are getting on and then are surprised to find that the plant

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What, after all, is the modern teaching about life? You may ours it all up in the words self-expression." The purpose for which we exist is to express ourselves. Private duty and social obligation must not be allowed to interfere. They occupy the position of the cow in the old story. It was in the early days of the train, and a Scottish engineer was asked what would happen if a row got in the way of the train. The answer was to the point: "It would be The answer was to the point: "It would be so much the worse for the coo." If anything gets in the way of soff expression, so much the worse for it.

Children must never be checked or controlled. They must be persuaded. When it is time to go to bed they must be persuaded. And, of course, this teaching is carried much further. Youth is enjoined everywhere to live its own life. It is assured that the great game of kicking over the traces is really the expression of the whole duty of man. If anybody finis traces the least hit boring, or producing the least sign of friction, he is exhorted to begin kicking at once. The thing that matters is that the expression of youth desires should be completely unframmelled. That is the way to live your life: that is the secret of happiness!

I don't take the ground of mere dell prudence -you might scorn that an unadventurous. But which gives you the better chance of expressing yourself-to squander all at the bidding of during or to describing yourself till you possess knows to enable you to choose according to your heat !

We must face all the facts. Personal pleasure is one of the facts of existence. But it is only To have a good time it one of the legitimate aims of life, but to make that the end-all and the bo-all of life is to caricature your own human nature—not to express it. So we must face all the facts of life. And one of them is -the Tribe.

Whatever solution of life there is, it must take account of the other members of the human family. To live as if we were the only person in the world who matters is not to expressourselves, but to rob ourselves of part of our heritage as active members of the human family.

Seriously to pretend that the real way to self-expression lies in trying to break all the laws which interfere with our desires is completely childish.

There are hundreds of good folk who believe in self-expression as the great good in tife-and cut out all the religious part of the human nature in order to express it properly. If I am going to express myself, it must be my whole self and part of that—and the highest part is that by which we remember that we are

made in the image of God,
"What shall it profit a man if he gain the
whole world and keep his own soul?"

Listeners' Letters.

Exiting the life in the lighter to be acknowled name and address of the sender. Annual name and recordered.

The High-Power Station.

Drag Sm.—Since DXX commenced seting.
I have listened daily, using a crystal at only, at a distance of approximately 100 miles, and the made are perfectly astralactory. General heirs ample signal strength nearly equal to

As " 5XX " is at present only experimental, I presume arrangements are not final. I feel therefore constrained to suggest that, as the radius of efficient crystal set revention (on efficient acrials) is occurrily not less that 125 inites, that the most economic situation for " 5XX " would be near the centre of England, as it would then supply the needs of the greatest prescible number of crystal set users.

Yours faithfully, Charles Hevry Kimbell,

Berksnell, Warwickshire.

["It would seem obvious, replies Capt. Eskersley that if we are desiring to serve the maximum number of people, we should put the high-power station symmetrically in the centre of the British Isles, but unfortunately this is impossible, technically,

"We think that the high power station is best served by a London programme. If the station were in the Mid ands and the programme were in London, the connection between studio and transmitter would have to be by overhead hand line. We fred, in view of the importance of the station, that this connection would not

be sufficiently reliable for everyday working.
"Thus, it is proposed to feed the station by
an underground cable, especially loaded to give
no distortions. It is impossible to make this
cable longer than about thirty to forty nules hence the position of the station is fixed somewhere near London, and its final position can only be fixed in the light of existing facilities as regards buried cable."]

Broadcasting in Ancient Times.

Draw Sm. Dr. George MacDonald, in bis article "Broadcasting in Accessed Times,"
says "the ascients had no device for the
transmission of sound. They had no teleacopea." But, as his "ancient times" go back no farther than 490 m.c., I would like to mention that Homer, 900 years s.c., mentions in his which Odyssey that not only was the mariner's compass and its use then unknown, but there is also the pregnant term, "ears of other," which undoubtedly to the ancients was akin to the modern "lastening" or "broadcasting"

Regarding the telescope, the invention of which is erroneously useribed to Galileo Galileo. out A.D. 1869, this instrument had been known to the scientific colleges of ancient Egypt, at least fifteen thousand years before our present

This can be proved to anyone possessing the required knowledge of mathematics and

And for ocular demonstration, there are at Behares. India, cut into the solid rock, models of astronomical instruments, which at a period of antiquity, higher than 900 years r.c., had been used for solar and lunar observations.

The Greeks were mere hables, when Egypt and Phoenicia were highly scientific nations. S F.27. W. A. VALUHAN

Receiving Chalmsford Abroad.

DEAR SIR.—I have the pleasure to inform you that I receive Cheimsford perfectly here. The transmission is at powerful as Radio Paris, and the modulation as perfect.

I wish to congratulate you.

Yours faithfully. Morines (Gironde),

PEOPLE IN THE PROGRAMM

Mr. John Coates to Broadcast.



Mr. June Coarse.

THE famous singer, M. John Coats. Desti shorth browness from London, and other stations. dates of which will be duly Times.

Mr. Coates has been a vo alist (rom his corticat howhood. At the age of five verse he was taken and the choir of Cirington Church, near Brasiford, of which his father was chulmaster. As a young

man he studied under various music-teachers. and finally came to London. He was given a trial by D'Oyly Carte, and appeared in Utopia Lid. at the Savoy, and toured America. For Ove years he amy in Comic Opera; but in 1901 he was singing at the Royal Opera. "Claudio" is Stanford's Much Ado About Nothing. He then determined on a further course of study, and placed himself under Rouby of Paris

The First English Hoffmann.

After this, he was engaged as leading tenor at the Royal Opera Hours, Berlin, Hannver, Lepzig, etc. He has sung at all the great English Festivals, and his boon closely as sociated with the choral works of Elgar. Many opera seasons followed, and tours in South Alrica, Australia, and the United Kingdom.

Mr. Cortes was the first to sing in England the principal tenor roles of D'Albert's Tiefland and Ethel Smyth's The B'reckers, on well as the first English Hudmann, which the he sang nearly forty times in the Beecham production of The Tales of Hoffmann.

A Disciple of Izaak Walton,

TALK of special interest to angless
will be given from London by Mr. William Hunter on August 6th. His subject will be Fishing as a Holiday Sport," and he is well qualified to deal with it, as he is a fellow of the Zoological Society, Organizing Sceretary of the Salmon and Trout Association, a member of the Fishing Club de France, and a Silver Medallist at International Casting Tournaments in Paris.

I have caught salmon in Aberdeenshire, mackerel in Cornwall, roach in the Thames, bass on the South Coast, front in Somerset, and pike in Witshire," he tells me, " and, better still, I cours among my personal friends many of the forement anglers of the day.



Machara.

Pianist and Composer.

MISS DESIREE

MACEWAN, who Burroemouth on August 5th, is a composer as well was prenot. An orobestral work of hersent tled "The Heights of Unmvar" was perfermed by Sir Henry Wood at a promenade Mile MacEwan began her musical career very early. She was only fourteen when she won the Ads Lewis

Scholarship for piano playing at the Royal Academy of Music, where the was a pupil of Tobias Matthay Later, she catered for, and obtained, the Josephine Troup Scholarship for composition. Soon after this, she was obliged, by the pressure of outside work, to resign the scholarship, which was for five years, and for ome time she has been a professor on the staff of the Matthay School.

A Popular Seprano.



him Importer Reseas.

AN arrow who is become incly popular with laten or is Miss Dorothy Rob воп, зорвано. Shee originally studied the quished this to take up singing. After studying in Vienna, she was en gaged for a German Court theatre, but the mi break of war prevented the familment of her contract. She returned to England.

and was for two years prima donne with the Carl Rosa Company. She left them in 1917 to devote berselt to concert platform work only returning to the stage to sog in the Mozart Festival at the "Old Vic "in 1921.

Miss Robson has sung in all the principal towns of Germany, Agetria, and Holland.

A Popular Tenor.



Mr. SPECIES THOUSE.

TENOR who is A becoming in-creasingly popular with fisteners is Mr. Spencer Thomas, who will bread cast from London on August 5th. His first public appearances of note were at the Leeds and Gioneester Musical Pestivals. Later be undertook a world tour as principal tenor of the Quinlan International Open Company.

Mr. Thomas possesses a voice well suited for broadensting, and he has a large repertoirs of

" Whistling Words."

AN artist who is a favourite with histoners is Mr. Arthur Melrose, the originator of word whistling." The other day he told me how he came to introduce this particular form of entertaining

"When meeting friends," he said, "I was to the habit of greeting them by whisting 'How do you do?' and, in course of time it etruck me that this style of conversation might be successfully—and peofitably. I hoped-worked up into a song. The Whistling Village was the outcome, and it proved an instant success. Many and varied were the songs I setsequently wrote and which are included in my present repertoire. The noveley brought me many successful tours and brokings with the principal London and provincial houses, in-cluding Mess and Stoll Tours, Tivoli, Oxford, and others.

A Singer of Polk Songs.



Ma J. BILL SMITH

ONE of Manchester's best known singers in Mr. J. Dale Smith. baritone, who is to give a short song recital at Leaden. Section London Station on Asset 13th Last year be gave a series of six recitals at Manchester singing altogether about 150 songa

Mr. Dale Smith studied at the Royal Manchester College of Music, where he was awarded a Hallam

Scholarship and the Curtis Gold Medal. He is particularly well known as an interpreter of folk songs.

WIRELESS PROGRAMME-Y (Aug. 3rd.)

6.50.

he letters " I.E." grinted in littles in these programmes rigarity a dissuffanceus direction from the rigidin men- tiones.
LONDON.
O. Time Signal from Big Ben.
Organ Recital,
S.B. to Newcardle.
Relayed from the Concert Hall of the
National Institute for the Bland, Great Portland Street,
Solo Organ, H. C. WARRILOW,
Organist and Director of Mosic, National
Institute for the Blind. HAROLD WHILLIAMS (Baratone).
FLORENCE LOCKWOOD (Bolo Violin)
CHILTON GRIFFIN (Solo Pianoforte).
Minust and Trie in B Flat W. G. Wood
Cansons in B Flat Wolstenholms (11)
Pestal Commemoration John B. West (11)
Violin Soll
Danso Orientale Kormkov-Kreisler Ave Maria Goussel
"The Reo" Scholert
Songs.
Garing Assumd's Tanahauser (Hugorett) Here Me, Ye Winds and Waves
Hamiel (1)
Pianutorie Sch.
Prelude in G Minor Ruchmanianff
"The Bees' Wedding (11) \ Mandelsonles
Prefude (11) Mondelandon
43 The Oesses
The Heras and his Ruler (Chorne from Israel in Egypt)
Remance m A Ballone (201
Triumphol March (Suggested by the Chondo
"Nun Danket Alle Gott"j. Karg Elect Violia Sale
Laughetta Weber Kreister
Tambourin Chinois
Songs.
The Southdown Shapherd John Alloy (4) My Father Has Some Very Fine Shap
core, Herbert Harrison (5)
"The Happy Lover H. Low Wilson (1)
Panoforte Son.
Constant of Plant V
Magurka in A Minori Chop a Rhapposty No. 6 List Ties Organ.
Ranpendy No. 6
"Spring Song" 1
Overtices in C Major
O 5.30.—CHILDREN'S CORNER. S.E. from
therdees,
30. Anthem. "O Come Everyone"
Mendelanda (11)
(Sung by MALE VOICE OCTIVITE) Hyun, "I'mise My roul the King of
Horeon " (A. & M. 298).
Horsen (A. & M. 298). The Rev. H. L. C. V. DE CANDOLE, Canon of Westminster. Religious Address.
Hymn, "Love Divine, All Loves Ex-
celling (A & M. 320)
0. DE GROOT
THE PICCADILLY ORCHESTRA.
relayed from the Precadilly Hotel
S.B. to Newrostle.
1.0. TIME SIGNAL FROM GREENWICH
WEATHER FORDCAST and GENERAL NEWS BULLETIN, S.B. to all Stations.
Local News.
Ammunements Concerning Forthouring
15 De Greet and the Precedity Orchestra
(Continued)
30. Close down
Approved to H. F. Palmer.
SIRMINGHAM.
3.4. THE STATION QUINTETTE
FRANK CANTELL (1st Vrolin).

SIRMINGHAM.
3.0.5.0. THE STATION QUINTETTE
FRANK CANTELL (1st Vrolin).
ELSIE STELL (2nd Violin).
ARTHUR KENNEDY (Visia)
LEONARD DENNIS (Violoncello).
NIGEL DALLAWAY (Panologie).
ALICE VAUGHAN (Contralto).
- ALIUE COUCHMAN (Solo Pineshote)

Quinterte	Ì
Santa ' The Communicali Woods	ı
Sorte, 'The Gressenbull Woods (a) Proposite; (b) Norfolk Folk Tone	ı
(b) Aggreent (c) Malicie Agic lane	ı
(c) Slow Air; (d) Jig and Finale.	ı
Intermento from "Boodtone and Harvest"	ı
West (11)	ł
Characteristic Waltz, No. 1	ı
Coleridge-Taylor (11)	ı
Songs.	ı
Prainte a Same	ı
Tears, Idle Tears	ı
As Thro' the Land at Eve Netholls	ı
	ı
The Swallow	ı
Pinnotorie Soli.	ı
Etude in A Flat, Op. 25 Chopis	ı
Hungucian Rhausody, No. 13	ı
Quintette.	ı
- Value Triedo Scholina	١
* Planding "	ı
Value Tristo Value Tristo Pleading Seconds from "Wand of Vouch" Suite	١
Parett Strate	ĺ
1 outh Suite	١
Suppre.	ı
Unmindful of the Roses "Coleridor Taylor	ı
"A Blood Red King" Colerabje Taylor (11)	ı
Puppforte Soli.	ı
Sicharan Waaf	ı
La when our lants Delever	ı
Scherno Waof La plus que lente Debusy Concert Study in F. Romen	ı
Concert Stany at Passassassassassassassassassassassassass	ı
Quintette.	ı
Greeting	ı
Ministure Suste Coules (1)	ı
Greeting Quintette. Greeting Holst (11) Ministure Suite Coster (1) (a) Children's Dances, (b) Intermesso.	ı
(e) Sceno de Hul.	ı
Announcer J. C. Paterson.	ı
5.0 5.30. CHILDREN'S CORNER. S.E. from	ı
	ı
.Ucrdeco.	i
8.30. Hymn, The Church's One Foundation	ı
(A. & M. No. 213). The Rev. THOMAS SMITH (Wesleyers	ı
The Rev. THOMAS SMITH Westerner	ı
Charch, Smethwick): Religious Adde-	ı
Church, Smethwick); Religious Address Hymn, "Our Blest Redeemer, Fre He	ı
Breathed (A. & M. No. 207).	1
	1
9.0. THE STATION SYMPHONY	ı
ORCHESTRA	1
Conductor, FRANK CANTELL.	
GLADYS WHITERILL (Soprano).	
Oreliceroa.	
And the second to T. Phys. Rev. Lett. 19 1 March 19 1 M	
Aria, "Hear Ye. Israel (Fajab.)	
Ania C Ulcan Vo. Tarred - or Dictab Ch.	
Arm, Mear 16, latter 4 Pelan 1	
The state of the s	
Orefses(ra.	
Symphony No. 41 in C (" Jupiter ") Mozart	
Same	
The Evening Prayer Moss play In One Dawn	
In the Dawn Dawn	
Option of	
+ Sérangela Lymana " Thorn	
Marth Householder	
Seconde Lyngor Electronic March Romano Good 10.0.—WEATRER FORECAST and NEWS.	
D.O. WEATHER FORELAST and NEWS.	
N.B. from London Local News,	
Local News,	
10.15. Close down.	

•	- Cramic Song (Ap. 10), No. 11 Boules
я	Revolkerious of Gomed um. Godfery
41	4.30, Doris Lemon and William Michael
	Duet-Selected.
7	4,40 Hard.
	Airs de Ballet ("Liselotte")
1	Bits the Dates I. Pancolot I.
	Suite in E Flat for Military Band Hole [1]
	(a) Charomer; (b) Intermesso; (c) March.
	5.0-5.30, CHILDREN'S CORNER. S.B. from
5	Aberdoese
	8.30.—Hymns by Choic of the Westbourne
	Wesleyan Church and Orchestra.
	S.35.—Rev. C. H. BATEMAN, of Westbourne
п	Westevan Church : Religious Address.
	8.45.—Hymns by Choir and Orchestra,
ų.	
	Vocal and Instrumental Night.
3	ANN E. FARNELL-WATSON (Solo
1	Panolorte).
	SYDNEY COLTHAM (Tenor).
r	Major STANLEY HOW Reading of
	Southey.
)	THE WIRELESS ORCHESTRA
	Conducted by Capt. W. A. FEATHER-
f	STONE
F	8.50. Sydney Coltham and Orchestra.
	"Condert Ye" (4" The Mossiah") "Every Valley" Handel (11)
ø	"Every Valley" Handel (11)
5	9.0. Orchantes.
3	Excepts from "The Miracle "Humperdiers
ĸ.	9.10Ann E. Farnell-Watson and Orchestra.
	Panoforte Concerto in B Missor Massal
	(Allegro-Tlommarc-Homos)
ŀ	9.25 Systems Collinson
	I Mear o Thrush at Eve Codoca (1)
	The Lord of the Sky Blue Water
	Cedenos (1)
5	"Unpin the Bose" Nightlaguic (9)
	9.41 Orrhesire.
9	Excepts from "Mecalinde" Massiet
	10.0 WEATHER PORECAST and NEWS.
	S.R. from London.
-	Loral Nova
	Major STANLEY HOW; Bondings from
	Poems of Robert Southey.
	10.40 Close down.
•	Amounteer John H. Raymond.
	Annual Transfer of August 11. Aug
	CARDIFF.
1	
	3.0-4.0PONTYPOOL AND DISTRICT
ı	SILVER BAND.
	Conductor, J. B. YORKE.
	AHCHLE GAY (Tower).
۰	J. March, Simplicity D. J. Ord Brane (1)

Overture," Morning, Noon and Night Overture, "Morning, Noon and Night Supplied in North Morne (I)

Browy Breated Pearl Teach III—Beyond the Night Heart Typementh Abboy

Cernet Solo, "Enchantress J. J. Wans (Solost, J. THOMAS)

IV. Songs Mary O'Neill Cart Hong Songs of Araby Clos V.—Fantasia Piper's Wedding They overture. The Night of May

VI. Songs "Beneath Thy Window Sigh No More, Ladies Sides [18]

Overture, "William Toll Research VII.—Bymn Varie, "Everade Green Amouncer: A. H. Goddard.

5.0-5.30—CHILDREN S CORNER. N.E. Journal of Children Sides [18] Suppl (1)

In an Old Fash and Town . See a standard of its nebbaber. A key list of publishers will be found on page 17.

WIRELESS PROGRAMME—SUNDAY (Aug. 3rd.)

The letters "S.B." printed in Italies in these programmes signify a Simultaneous Brandoust from the station mea-

Gems of Oratorio.

THE STATION SYMPHONY ORCHESTRA Conductor.

WARWICK BRAITHWAITE DOROTHY CLARK (Contrakto).
JOHN PERRY (Tecns).
SILVIO SIDELI (Bass).

5.40 Prelude and Angel's Facewell (" The Dream of Gerentine") Elgar (11)

John Perry. Sound on Alurm" ("Judas Maccaberts")

" Deeper and Deeper Still " (" Jeptha ")

Hondel

Propage Thy agelf, Zhou ... ("The Christmas agelf, Zhou ... ("The Christmas agelf, Zhou ... Be-j Oratorio") . Buch

Silvia Sideli. Songs. Selected.

"Pastoral Symphony" ("The Messiah

10.0. WEATHER FORECAST and NEWS. S.B. from London. Local News. 10.15. Close down. Announcer E. R. Appleton.

MANCHEGTER.

3.0 a.0.—THE BOLTON PROFESSIONAL MILITARY BAND.
Cuadactor—W. S. A. JOHNSON, GERTRUDE EDGARD (Suprano).
Band.
March. British Cay by J. Ord-Home

Overtore, Boralda E Constante

Ave Maria Gound (1)

Rand.

Three Light Pieces Percy E Fletcher
Cornet Solo, The Lost Diamond & Whiteley

The words will be recited by the Composer

The words will be recited by the Composer before its performance)

(Solosst—HARRY HELSHY)

Gertrude Edgard

Remays resistence - Donizeta (1)

Etizabeth a Prover - Wayner (1)

Bond.

Overture Zamps - Herold Selection. Scotch - J Hartmann Gertrude Edgard

Cannone Boston - Peachiell - Voce di Donna - Peachiell - Marche des Monjicks - Recette - So.—CRILDRENS CORNER - S. 5.

from Abardian.

The Development of Overture.
THE "SZY" SYMPHONY
ORCHESTRA.

Orchesica.

Overture, July Coreac Berline

9.35 - Hymn, "Glory to Then, My God, The Night (2009 Wes, Meth. Hymn Book) The Rev. ROBERT ARMSTRONG, The Manne, Edgeworth, Belton; Religious

Address
Hynn, "All People That on Earth do
Dwell" (No. 2 Wes. Meth. Hynn Book)
10.0 - WEATHER FORELAST and NEWS.
S.B. from London.

16.36 - Close down. Amounter: H. B. Breman.

NEWCASTLE

3.0-5.0.—Programme S.B. from Landon.
5.6-5.30. CHILLIBEN'S CORNER. S.B. from Aberdee.
0.30-7.45. EVENING SERVICE, relayed from ST, JOHN'S CHURCH.
Proacher, The Rev. A. E. CORNIBEER.
9.0-10.30.—Program of S.B. from Landon
Amounteer: E. L. Oddams.

ABERDEEN.

THE WIRELESS ORCHESTRA. Overture, "The Merry Wives of Windsor

2.15. CHRISTINA J SREPHERD (Sopmoo).
O Rest in the Lord " (" Elijah")
Mendelssohn (1)

2.25 Calcary Rodney (5)
ALLAN MORTON (Bass).
Ye Verdont Hills Handel (1)
Within These Sacred Bowers

Mosart (1) Orchestra.

Suite, Bengarousque Debussy Christian J. Elepherd. "Out of the Deep I Call" (De Profundis) Martin

The Religie of the Soul " Jones Allan Morton.

She Alone Charmeth My Sarinosa "

Gound (1) " How Deep the Slumber of the Floods

4.10. Orchestra.
Chanson Plaintive ** } Poulds

4.25. Christ en J. Shepherd.
Nearer, my Cool, to Ther ** Garey (1)
** Beyond the Dawn ** Sauderson (1)

4.30. Allan Marton.
** Birds in the Righ Hall Clarifon

Sourcevell (1)

Somervell (1)

Somerell (1)

L45. Greinstru. Moszkowski
Servande Waher
Andants Cantabile, Op 47 Schumenn
L0 L30. CHILDREN'S COHNER. S.H. to

all Stations

Chamber Music Concert.

MARGARET R. HAY (Soprano).
THE WIRKLESS QUINTETTE:
NANCY LEE (Viola),
WILLIAM BENNETT (Viola),
MINNIE MYDDLETON (Viola).
ANDREW WATSON (Violancello), MARIE SUTHERLAND (Punoforte).

Two Movements from Piano Quintette in

Two Movements from Piano Quintette in If Minor, Op 34

Margaret R. Hay

" Return, D God of Hosts" (" Samson ") Handel (11) "O Divine Redeemer

9.40. Quartette.
Two Moyaneuts from String Quartette in U Minor . Debasey 18.0. WEATHER FORECAST and NEWS.

18.0. WEATHER FORM
S.B. from London
Local News.
10.15. Margaret R. Roy.
"The Heart Worships"...... Hold (14)
"How Lovely are Thy Dwellings"
Liddle (1)
Kaka

Avo Marja " Liddle (1)

10.25 Quartette Kaho
Two Movements from String Quartette in
G Minor Debusy
10.35,—Close down

Announcer: W. D. Simpoote.

GLASGOW.

THE WIRELESS QUARTETTE Overture, "Il Seraglio" Mozarl Schertion, "La Traviara ... Ferdi Tacan 3.20. MADVARET MACSWAN (Soprano) "The Jevel Serge ("Faust") ... Gound "I Heard a Mayor Colon. Borose [1]

3.30. Quarterto.

Soste, "Children's Corner"..., Debussy

5.45. FINDLATER MACDONALD (Bacitonel,
When the Suchious Homeword Fly
M. V. Whose

When the Swallows Homeward Fly
M. V. Uhane
Required M. V. Uhane
Bown Hero M. Broke (5)

1.55.

Quartette

Entraces P. Quartette

Entraces P. Quartette
Bacerolle Granfeld

45.

Margaret Macswan.

"The Yellowhammer Declarating Mariane (1)

4.15.

Quartette
Ballet Music, Salamba Arends

430.

Einden Lea M. Vanghan Williams (1)

Linden Lea Mooden

"Declaring Now, the Sun's Bright Wheel
Parker (11)

Parker (11)

Quartetto. 8.30 Therete

8.30. THE PSALMODY QUARTETTE
PSalm 93 (Tune: "Strondwater" No. 128).
8.35. The Rev. JOHN MITCHELL, Henderson
Memorial United Free Church: Religious

9.30. James Newall.
"When the Stars Were brightly Shining."

9.40. Alfred Picton.
Suite in Three Movements (yrd E. Roothers
9.50. Helcas Hartley.
A Pastoral" Verment (I)
"Croon Island" R. Mees
"Lullaby" Cyrd Scott (4)
10.0. WEATHER FORECAST and NEWS.

S.B. from London. Lucal Nova.

10.13. -- Close down

Amounter | Herbert A. Carcuthers.

A matches against a countral liters indicates the same of its publishes. A key list of publishers will be found on page 31.

The Wonders of Stained Glass.

A Talk from Glasgow, by Anning Bell, R.A.

O' all the decorative crafts which have been called into being by the Christian religion, that of stanced glass is the most characteristic. It arose and declined with the form of architecture most closely associated with, and dependent upon, the Christian religion—the so-called Gothic form of architecture—which from its origin in the thirteenth century, dominated Europo for over three hundred years.

These dates are merely roughly indicated boundaries, but they cover, at any rate, the main product of this beautiful art. There was stained glass in the twelfth century—beautiful examples still exist—and there are traces of it in still earlier tunes. Nevertheless, it is an art essentially Gothio. Its peculiar beauties, the rich deep and glowing cotour, its qualities of mystery, of suggestion, are profoundly in sympathy with the aspiration and poetcy of Gothio architecture, and it is undoubtedly seen at its finest in association with it.

Its Essential Function.

In its origin it is sourcely a painter's art at all. It is rather a plazier's art. Its essential function is to permit the passage of light, or rather to govern the passage of light, allowing more or less of it to penetrate into the interior of a building according to the needs of the particular case. Sometimes but little is desired; it then becomes rich and sombre in colour; at another time much more light may be wanted; it then becomes silvery and clear with touches of gold and colour.

The painting upon it may be described as a decoration of the surface rather than an inherent part of the function of the window, and it came into practice from the desire of the glazier, to surich his work, as well from the desire of the clergy to record in permanent and pictorial form the story of their religion.

stained glass is one of those decorative handicrafts which have retained practically the same methods of workmanship from the esclicut times to the present day. The few changes which have taken place are of minorimportance.

A Modern Convenience.

The introduction of the stain made from a solution of alver, which gives the golden tints so characteristic of the 14th century, and still more so of the 15th century work, is by far the most important. The more modern use of the diamond instead of a hot from to cut the pieces of glass to the shape required is another change, but is obviously a mere convenience to the glass-cutter rather than a now and valuable and in artistic treatment.

A few words now as to the essential nature of a stained place window, and as to how it is produced. To begin with the title "stained glass" is something of a micromer. It should properly be called "coloured glass," as it is by the juxtaposition of separate pieces of coloured glass that the effect of the window is obtained. The juxtaposition of pieces of coloured glass held together and framed off from each other, by strips of lead of varying thicknesses—anything from an eighth of an inch to three-quarters of an inch, or even more.

The Introduction of Story-Teiling.

These leads form a distinct network of black lines and are a very important contributory factor to the peculiar character and beauty of the result. When in later ages the designer has endeavoured, in a mistaken wish for realistic pictorial effect, to suppress these as

much as he can, the effect is deplerable. The decime of the art from the great ages up to the Gothic revival in the last century was the result of this desire. As far as this it is clear that it is distinctly a ginzier's art, a glazier artist, that is.

Much of the early work and a good deal of the later work is confined within these limits, as anyone who knows the French cathedrels must realize. But the desire for story-telling soon came in, and we get the early richly coloured windows containing small panels in a variety of geometrical frameworks, which tell stories from the Bible or the histories of the saints, as in Canterbury and the Sainte Chapelle. Large figures begin to be introduced, particularly in the elerestory windows, as in Chartres, and we soon get the figure-designer taking the principal share of the work. He works in the following meaner in the present day, and in so doing follows the traditional methods.

Trimming the Glass.

A small scale colour design is first made, then a full size carteen, in which special attention is given to the leads, as these must be quite definitely decided at this stage. The carteen is then traced and each separate shape is out out. These shapes, which represent each one a definite piece of calcured glass, are handed to the glass-outler, who lays the chosen piece of glass over them and trims it to the shape of the paper, taking care to allow for the thickness of the leaden Hange which keeps the pieces of glass spart—this, I should say, is allowed for in the traceng, so that his work is made easier.

The next stage is the pointing. The glass shapes are now laid over the carteon and the outlines are traced with a brown pigment of such a nature that when placed in a moderately heated kiln or oven the pigment is fused in the glass. The pigment used is the same whatever the colour of the glass; in fact, a brownish monochroms on relound glass is the entire method in medieval glass and in the modern

work of the same character. After this first firing the more delicate shading is applied, sometimes in fine lines, often by laying a matt, that is, a tone of the desired chade, over the whole of the piece of glass and working it away with a hard brush until the desired result is reached.

This is fired again, and the glass is handed over to the workmen, who lead it up and add a cement to fix the glass firmly to the leads. The window is now ready for its place. There are slight variations in the procedure here coughly sketched, and it is also possible to paint with enamel colour on clear glass—this was done with great skill in the 16th century and later. The windows of St. Gudule, in Brushels, are probably the best-known examples of this, and are fine things. It is, however, usually more successful on a small scale, as the cuarnel is likely to fly off.

A Distinguished Scottish Actist.

The window when ready for fixing is divided up into portions of a convenient weight for handling by horizontal divisions; these are eventually concealed by the iron bars fixed to the stonework which everyone will have noticed cross such a window at regalar intervals. Each portion of leaded-up glass is fixed to these by copper wires, and it will be understood that this fact greatly adds to the facility with which they can be removed to mend or replace injured parts, or to avoid sir-raids. It is a great neafortune that this was not more generally realized in Lendon and on the Western Front at the beginning of the Great War, or we pright still possess the windows of Lincoln's Jun, and of Rheams and many other French and Belgian churches.

The art of stamed giase has made a remarkable improvement in this country in tecent years. Many brilliant young artists are following in the footsteps of Morris, Burno-Jones, Madox. Brown. Resecti, and others, and I feel confident that in future times the stamed glass of our own period will be recognized as among the finest artistic expressions of the fate eighteenth and early nineteenth centuries. I should like to say that in my opinion the leader of thems in that distinguished Scottish artist, Douglas Strachan, whose work will be one of the enduring glories of Scottish art.



Boestful Enthusiast: " and I made it entirely myself!"
Neighbour: "That explains why it's such a howling success."

10.0. WEATHER FORECAST and NEWS.

WIRELESS PROGRAMME—MONDAY (Aug. 4th.)

The letters " S.R." printed in Iteles in these programmes signify a Simultaneous Broadcast from the station mon-tioned.

LONDON.

6.6-6.45 - SPECIAL BANK ROLIDAY CHIL-

DRENS CORNER: Piano Synopa-tions by Urels Ragrams.
7.0.—TIME SIGNAL FROM BIO BEN. WEATHER FORECAST and IST CENERAL NEWS BULLETIN S.B.

JOHN STRACHEY (On B.B.C. Lineary Critic): Fortaightly Book Talk. 8.8.

Talk by the Eadio Association, S.B. to all Stotions, Local News.

7.35-8.0.—Interval.

A Bummer Bouffig.

A B.H.C. Recipe, Suitable for a Holiday Evening a Entertain-

(With apologies to Mrs. Beeton.)
S.B. to all Stations.
INGREDIENTS:

1 Light Soprano in Henley trock
WINTERED FISHER
1 Sonheetts duto . GLADYS NEWTH
1 Many Boritone in white finnels
DENNIS NOBLE
Syncopated Sungators—1 Brace
LAYTON and JOHNSTONE
1 Dungler Concept Party

1 Popular Concert Party
THE ROOSTERS

Taka first a thin layer of Orchestra, carefully aka first a thin layer of Orrhestra, carefully nuted. Before completting the layer add a flavour of Concert Porty with a small dash of Soubretto. Continue with an exercise layers of Orchestra, covering as much variety in flavour as possible by adding one by one others of the ingredients as funcy may suggest. Shake in a soupcon of Navy or Army and add a suspicion of "Mr. Everyman." Use a moderate sized Stutto and stir the next term as bright on possible to a delicate. ture as beakly as possible to a delicate froth. Carnah plentituly with comedy and serve to the minute. Thus dish will be found suitable for con-

sumption at home or out of doors
10.0—TIME SIGNAL FROM GREENWICH
WEATHER PORECAST and 2ND
GENERAL NEWS BULLETIN, N.B.

to all Stations.

From My Window, by Philemon. S.B. to all Stations.

Topical Talk.
Local News.

10.35 THE SAVOY ORPHEANS AND SAVOY HAVANA BANDS, AND SELMA FOUR, relayed from the Savoy Hotel London. S.B. to all Stations.

12.0.-Close down Announcer : J. S. Dodgson.

BIRMINGHAM

5.20-5.35.—Agricultural Weather Forecast, 5.35-5.30.—CHILDREN'S CORNER 6.30-5.45.—Toona' Corner: Unclo Fellx on "Naval History." 7.0.—WEATTLER FORECAST and NEWS.
S.B. from London.
JOHN STRACHEY. S.B. from London.
Radio Association Talk. S.B. from London.

7.30. HAROLD SAMUEL (Solo Pianoforte). Courants Handel
Townie Parades
Produce Produce in F Minor
Produce and Fugue in D Major
Evocation Alberia
Passepied Debusy

Passoned Debusy 8.0.—" A SUMMER SOUFFLE." S.H. from

S.R. from Landon. S.R. from London. Topical Talk.
Local Nova.

10.23 - THE SAVOY DANDS. S.R. Jess

Loudan 12.0. Class down

Amounter: J. C. Paterson.

BOURNEMOUTH.

5.15-6.15 CHILDREN'S CORNER. 7.0 WEATHER PORECAST and NEWS.

S.B. from Landon.
JOHN STRACHEV. S.B. from Landon.
Ramo Association Talk. S.B. from Landon.

7.25 8.0. Interval. 8.0. "A SUMMER SOUFFLE." S.B. from

10.0. WEATHER FORECAST and NEWS.

S. H. from London "From My Wordow." S. H. from London, Topical Talli. Local News

10.25. THE SAVOY BANDS. S.B. Nom London

12.0. Close down

Announcer John H. Raymond

CARDIFF.

7.0.—WEATHER FORECAST and NEWS.
S.B. from London.
JOHN STRACHEY S.B. from London.
Radio Association Talk. S.B. from London.

7.35 S.6 - Interval.

8.0 - A SUMMER SOUFFLE " S.B. from

10.0 WEATHER FORECAST and NEWS.

S.B. from Landon.
"From My Window." S.B. from London.
Topical Talk. Lucal News

10.35 THE SAVOY BANDS. S.B. from London

1º.0.-Close down.

Announcer C. E. Passons.

MANDHESTER

2,20 3.0. WOMEN'S HALF-HOUR | Engice

THE PODEN'S MOTOR WORKS
3.15-4.0 BAND, relayed from the Municipal
4.10-5.0 Gardens, Southport, Conductor, T.
HVNES.

5.45-6.9. Children's Letters. 6.0-6.30. CHILDREN'S CORNER. 6.30-6.55.—Chats with the Older Children 1.0.—WEATHER FORECAST and NEWS.

S.B. from Landon.
JOHN STRACHEY. S.B. from London.
Backia Association Talk. S.B. from London.

Local Nows.

7.35.—Mr. W. F. BLETCHER, Examiner in Spanish to the U.L.C.T.: Spanish Talk.

8.0.—A SUMMER SOUFFLE. S.B. from

10.0. -WEATHER FORECAST and NEWS.

S.R. Jon London.
From My Window. S.B. from London. Topical Tolk. Local News.

> **WAVE-LENGTHS** AND CALL SIGNS.

THE PARTY OF THE PARTY.			
ABERDEEN (2BD) -	-	495 Metres	
BIRMINGHAM (51T)	25	475 ,,	
GLASGOW (5SC) -		420 //	
NEWCASTLE (5NO)	W	400 11	
BOURNEMOUTH (6BM)	196	385	
MANCHESTER (2ZY)	4	375	
LONDON (2LO) -	20	365	
CARDIFF (5WA) -		351	
PLYMOUTH (SPY) -	-	335	
EDINBURGH (ZEH) -		325	
LIVERPOOL (ELV) -	21 3	318	
SHEFFIELD (6FL) -		303 .,	
TECHE !	-	346	
BRADFORD (ZLS) {		310	

OUNTLEMEN, THE KING A Military Drams in One Act, by Campbell Todd. 10.35 Cast .

Lt. Col. Charles Amsworth, D.S.O.
H. B. BRENAN
Capt. Action Lloyd. R. T. FLEMING
Lt. and Quartermaster James O'Grady MANSEL LEE

Set. Patrick Flyon (Mess Sergeon)
D. E. ORMEROD

2nd Lt. Harry Raymond GASCOINE BURTON

GASCOINE BURTON
John McGillvaray (an old Soldier) (Late
Second in the Hea. the East India
Company's Service) VICTOR SMYTHE
Second Officers' Mess room, Blankfield
Barreck, Yorkshire,
Time December, 1901

11.5. THE SAVOY BANDS, S.B. from London,
11.0.—Class down.

11.0.—Close down.

Announces H B Breunn

NEWCASTLE. 4.45-5.15.—WOMEN'S HALF-HOUR | Weekly News Letter | Annie H. Ross on "Neeth

Country Lore."

5.15 C.U. CHILDREN'S CORNER Stories

and Songs. 6.0-6.20. Scholars Half Hour. 7.0 WEATHER FORECAST and NEWS.

S.R. from London.

JOHN STRACHEY. S.B. from London.
Radio Association Talk. S.B. from London.

Local News.

8.0. "A SUMMER SOUPPLE." S.B. from

London. 10.0. WEATHER FORECAST and NEWS.

S.B. from London.

"From My Window." S.B. from London.

Topical Talk. Local News.

10.35.—THESAVOY BANDS. S.B. from London.

12.0 Closs down.

Annuancer W. M Shewen.

7.0. WEATHER FORECAST and NEWS.
S.B. from London.
JOHN STRACHEY. S.B. from London.
Radio Association Pulk. S.B. from London.

7.35.—Boy Scouts' News Bullevin. 7.40 8.0 - Interval.

A SUMMER SOUPPLE. S.B. From

10.0. WEATHER FORECAST and NEWS. S.B. from London.
From My Window. S.B. from London.
Toparal Talk.

10.35. THE SAVOY BANDS. S.H. from

12.0. Close down.

Approuncer | A. M. Shinnie.

QLASCOW.

5.0-5.0.-CHILDREN'S CORNER: Letter 6.0-6.0.—CHILDRENS CORNER: Letter Competition Results. Dorothy Helm-rich (Meszo-Soprano). 6.0-6.5.—Weather Forecast for Farmers. 6.40-6.5k.—Athert is Gup: French Talk. 7.0. WEATHIR FORECAST and NEWS.

S.B. from Landon.
JOHN STRACHEY. S.B. from London.
Radio Association Tulk. S.B. from London.
Local News.

135 8.0 - Interval. 8.0 - "A SUMMER SOUFFLE." S.D. from

10.0.-WEATHER FORECAST and NEWS.

S.B. from London. S.B. from London. Topical Talk.

Local News. 19.35.—Tilk SAVOY BANDS. S.B. from

12.0.- Close down. Announces Mange M. Dewar

A number against a stressed from tellicates the manus of its publisher. A key list of publishers will be insted on page 257.

WIRELESS PROGRAMME—TUESDAY (Aug. 5th.)

The letters "4.8." printed to italies in these programmet signify a Unsettaneous Broadcast from the stellow mustaneous.

LONDON.

1.0-2.0 — Time Signal from Big Ben. Concert:
The 2LO Triu and Linen Blake (Mezza-Contralto).

4.0-A.0 — Time Signal from Greenwich "Books Worth Bending," by Jerny Wren. Organ and Orchestral Music ruleyed from Shopherd's Bush Pavilion. "The Cheises Physick Garden," by Mrs. Hugh Spender

8.0 6.43 — CHILDREN'S CORNER Sales
Story "The Pools," by K. W. Lowis,
"Treasure Island," Chap. 25, Fast 1,
by Robert Louis Streenson. "The
Romance of the Elements—Air," by
Riory." Folk Songe sing by Murial
Freezum-Smath [Soprano]

7.0.—TIME SIGNAL FROM BIG BEN, WEATHER FORECAST, and 18T GENERAL NEWS BULLETIN. S.E. in all Stations.

Mr. L. E. WILSON, the Australian who walked 24,200 miles, "Hints to Walkers." S.B. to other Stations.

Local Nows.

7 30 6.0 - Interval.

Popular Programme.

Murch, "The Venguished Army Alfand Overture, "The Merry Makers" Eric Contra Walts, "Casino Tanzo" Eric Contra
Pianoforto Solo.
"By the San " Schubert Rubinstein
The Orchestra.
Selection," The Passing Show of 1915."

Tener Songs.

Tener Songs.

"The Ivery Gate I can the spill
"With Such a Dainty Maid" L'allier
The Orchestra I asell
Scherzo F Gran ille Rubeck
Patrol, "The Wee Macgreegor" Amere
Pianotorte Son.
Faptasia in D Miner
Tene Foom, "Dawn" P. Granelle Rabeck

Tone Foom, Dawn The Orchestra.

Andante Relagiose the Memory of the Fallon, 1914-18). Faronsille Ruhech Ballet Egypten Legons
Sante, "La Ferin" Lecome
10.0—TIME SIGNAL FROM GREENWICH, WEATHER FORECAST and 2ND GENERAL NEWS BULLETIN. S.B. to all Notices.

to all Stations.

Mr. F. KAY ROBINSON Presentant of the Braish Empire Naturalists Association, on "Young Birds." S.B. to all Stations, Local News.

Popular Programme (Continued).
The Orchestra. 10.30.

"Three Yorkshire Dale Dunces"

Arthor Wood

Tenor Songs.

There's a Lottle Maid ' My Lady Molly ')

"Under the Like Bough"

Selection "My Lady Molly "
Sulary Jones (31)

11.0. Close down. Announcer: J. G. Broadbent.

BIRMINGHAW

3.30 t.30.—Station Piano Quintette. 5.0 5.30.—WOMEN'S CORNER 5.30 5.31.—Agricultural Weather Forecast. 5.35 6.36.—CHILDREN'S CURNER. 7.0 WEATHER PORECAST and NEWS. S.H. from London, Mr. L. E. WHLSON, S.R. from London, Local Nove. 7.30 S.O. Interval.

THE STATION ORCHESTRA.
DORIS LEMON (Suprano).
WILLIAM MICHAEL (Boritone).

Orchestra. Overture, "Lustspiel" Keler Bela Melody in F Rubinstein Funtation "Faust" ... Gaunos, arr. Tucan

To-Morrow " ... Goal. " Onaway, Awake, Beloved Cours

"Micaela I Song" ("Corress") .. Bizet

Orchostra. Concert Waltz in E Major Aloschowski Suite, Harvest Time Wood (1) (a) Harvester a Dunce; (b) Interlude; (c) Harvest Home,

Baritone Soll.

I Tramph! I Triumph! . . . Corcosimme
'In An Old-Fashioned Town '. . Spain (1)

"Ballatella" ("Pogliarei") .. Leo. raenllo

Ballet Music to "Hamlet" Thomas

10.0. WEATHER FORECAST and NEWS. S.B. from Lo. do ..

Mr. E. KAY ROBINSON, S.B. from Local News.

Orchestra. Selection, Generalize de Bolioni

Suite, " From the Countryalde" . . . Costee 11.0,-Close down.

Announcer : J. C. Paterson.

BOURNEMOUTH.

3 45-5.13. The "6BM" Trio, and Talks to Women

A.13-A.15. CHILDREN'S CORNER,

I.C.-WEATHER FORECAST and NEWS. S.B. from Landon.

Mr. R. J. JENKINS, Deputy Borough Engineer, Portsmooth, on Rumbles Around Portsmooth,

Lucal News

7.30-8.15. - Interval.

Soursemouth Municipal Orchestra Night.

DESIREE MACEWAN (Solo Pianofortz), WALTER WIDDOP (Teno).
LONDON MALE VOICE OCTETTE.
BOURNEMOUTH MUNICIPAL

BOURNEMOUTH MUNICIPAL
ORCHESTEA,
relayed from Winser Gordens,
Montrel Director, Sir DAN GODFREY,
Orcheston,
March, "Land of Hope and Glory"
Elgar (3)
Herold

Overture, "Zamps" Herold Waltz, "Jolly Commisses" Voltssedt

8.40 Detetto. Folk Tunes,

"The Keys of Heaven" Ellioft Bullon (11)

Bushes and Brian (11)

Bushes and Brian (11)

Sailor Shunties.

"Shenandoah" . are. H. W. Pieres (2)

"Johnny Comes Down to Hila"

are. Sir R. Terry (2)

Walter Widdep.

8.50. Walter Widdsp.

For You Alone Grant
Celeste Aids Perds

9.0. Duet for two Piccoles and Orchestra.
(Soloists, JEAN AND PIERRE GENNIN.

9.10. Calle in Our Alley

Delette
Sally in Our Alley
"The Old Folks at Home dr. Vaughau Williams (13)
Desires MacEwan,
Prelude in F Sharp Minus
Nocturus in F Sharp
"Walds sranchen"
List

6 30. Watter Wolden. "2 Hear's Thrush at Eye " }. "At Dawning."

Orchesten. Scheding, "Morrise England".... German "Hungarian Rhapsody".... Liest 10.0, WEATHER FORECAST and NEWS.

S.B. from Landon. Mr. E. KAY BORINSON, S.R. from Lordon.

Lacal News.

I Campot Eat but Lattin Mean "
arr. Marrin Share (
Part Song "Phyllis Dy He Tree
Black ... "Now. 6 No We Seeds
Ment Part " Dowland 1013

30 40. Walter Widden Parent
Hecondita Armonas " Pacent
10 45. De free MacLiu at
Sonata No. 12 in A ... Meart
(Tema con Varianters—Menuetto—AllaTures.)

13.0.-Close clown.

Amosmeer John H. Raymond.

CARDIFF.

0-4.45 The Crowning of the Bard

• THE ROYAL NATIONAL EISTEDDFOD OF WALES

H.R.H. The Prince of Wales.

3.0. H.H.H. will be received at the Pavilina by the Postypeel U.D. Council, which will present an Address of Welcome.

3.10,—B.B. will be received on the Sporte
Ring by the ARCHORCID was the
GORSKOD OF THE BARDS OF THE
ISLAND OF BRITAIN, and representatives of the ROYAL NATIONAL ElsTEDDFOD ASSOCIATION and the PONTYPOOL EISTEDDFOD COM MIXTEE.

3.20.-An Inspection of Ex-service Men during which the procession to the Paython will be formed.

3.45.- H.R.H. will be received on the platform of the Pavilion by the Chairman of the day, T GRIFFITHS, Eaq., M.P. Treasurer of H.M.'s Household. The Chair will sing "God Bless the Prince of

4.0. Covernony of the Crowning of the Bard

1. Adjudication.
2. Advance of the successful Bard to the Platform.

3. Crowing of the Bard by H.R.H. THE PRINCE OF WALES.
4. The Coronation Song, followed by the Welsh National Hymn, "Hen Wind fy

A.30.—Rusical Bons.

4.30.—Rusical Bons.

5.0 J.45.— JWA'S.—FIVE O'CLOCKS

Vocal and Instrumental Artists. Talk
to Women. Weather Forecast.

5.45-6.30.—CHILDREN'S CORNER

6.30-6.45.—"How to Write Stories"—(NII.), by an Editor 3.0 - WEATHER FOREXAST and NEWS.

S.B. from Lordon. Mr. REHARD TRESEDER, F.R.H.S. Cardening. OH

Local News 7.30-7.45. Interval

Back to the Army.

CONCERT PARTY.

Relayed from
THE TERRITORIAL (100TH SOUTH
WALES INFANTRY BRIGADE) CAMP,

Portheawl.

In the Studio again.
LENA MASON (Solo Violin).
CHARLES WREFORD (Entertainer).
THE STATION ORCHESTRA.

A suppler against a married from indicates the name of its publisher. A key fast of publishers will be found on page 227.

WIRELESS PROGRAMME—TUESDAY (Aug. 5th.)

The letters J.C. printed in dialics to those programmes army a Simultaneous Greadcast from his taken man
Spect.
8.45. Orthodra Secondary I Reportant and 15 15 15 15 15 15 15
Over-use ' La Pre nux Cor /
S of h s
Vice Very Long Ve
Wast Cambry Dadiet Bootto For O Night On y
asan Masan.
Pet no di Maurito A. Dolara Hair Quarre di
Words in A Major Comme to Bridge
West Country Dislort Recital, "The Conc.
Wacels Comment Part
Select in 1 La Previous Treels 100. WEATHER FORECAST and NEWS
8 B. from Loudon
Mr. E. KAY BOH SSON S.B
1036 +Clost down
Announcer A H God and
MANCHESTER.
1 36 1 36. Mid-rary Mosne relayed from the
WOMEN'S HALF TOU.
. H 130 A oncert by the 2ZY Queriet a
OF CHILDREN'S CORNE,
6 30 6.55. Mr. J. A. PFACH MA. of Mai heavet University, on "The formal Unidentities (VL. The Roots of Western
Ovderation Al E The Room of Western
1. AUSTURB FORESAST and NEWS
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M. L. E. W.H.SON, S. B. Iran Lando. Lord New
CB - fateren.
THE 2ZY OROHESCRA
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f The Bertish Broadcast of t t Ltd. 57 Di kinson Street Men
chester, giving your own name and
And I vish
8 to JOHN ATS NSON (Sula Vic.)
Fugue at A Major (Craceourpanied)
S (John Atkinson
Sorp Bucker Com-
10.0. WEATHER FORECAST and NEWS > B. from Londo
Mr. E. KAY RUBINSON, & B / m
Landon, Local News 10 30, Oreustra
Selection. "The Lay of K harney Beauth) Selection. "Bylvin"
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Announces of B. B. Ge a
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4.4 Cont

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ROGRAMME
As Hour of Scotlish Music
THE STAT ON ORCHESTRA
Unilister WHITIAM & CROSS
Hon Mangreegor as a common of the
Finds of Mary "
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My Am Fold There is the Level
Coffee He rin's and Come to
The Border Ballan
O, My Love is Line a R 1 2 1 a
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Excerpts from " Report Brose
David McPayton
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March of the Comeron Men " 44
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NO REFERTORY COMPANY
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cPlays produced by OORDON LEA,
A THE AMERICAN PROPERTY AND THE RESERVE

0.6. WEATHER FORECAST and NEWS S.R. from London

Mr. E. KAY ROBUNSON

London, Local News 8.8 900 Sides ton. The Physics on Manifolds As connect W M Shewon

NAME OF STREET

· · · i. Operatic Afternoon.
545, 6.30. CHILDREN'S CORNER
O-WEATHER PORECAST and NEWS
S.B. from London
We L. E. WILSON S B. from Lantin.
A SE SECTION
the seal of the se
i.o Agelealturol Notes
A Concert by Three Selests.
BUSSIE ENKINS (Contraito).
Mrs. of G. BURNETT (Side Violes).
E. B. APPLETARD Solo Phinoferte).

The Year Bost Tree

'Mountait Being" (will brethesten Accordance 1965)
'Yel on Bulls of My Foot Yel on Bolls of My Fort | Forthondo spirit it vente | Handel |
Violin Recita | Augusto and Allegro Multa Vivoce from |
Violin Concerto | Mendelsodin |
It is the transfer | Mendelsodin |
Mendelsodin | Mendelsodin |
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"Cormen Fratusie Bellanto" Hubry

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	Andouncer EL J. McKer

DEATH DOM:

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at at OBILDAENS CORN R
6.0-0.5. Weather Porsens, for Farmers
" WEATER POCKETS & NEAR
8 B from Landa
Mr WILSON & B from London
Local News
A 305 No. of Enteresis.
Play Night.

RPI INACD WHITELE KID Base ABL STATION ORCHESTRA Conducted by ISAAC LOSOWSKY

O per control of the Test kiss.

A One-Act Councy by Keble Roward. 8.16 Momen Lo A " CLADYS WAS DONALD Captern Jack Heather, Cred GE ROSS Produced by CLORE BOSS and "58CS" REPER TORY COMPANY

Selection. "Les Clockes de Corneville"

84 . Res and Wesser's Farmer and
The Warward or Works. Jones
In Section Val. Clarks A One Act to my y Dawy McGroch

Mary GLADYS MACDONALD

Rest als 1 on seed by
CEORGE ROSS and "SSC'S" REPER

TORY COMPANY.

9.15 Orchestra.
Serenade, "Les Millors d'Arloquin "

Drogo.

9.26. Rezmaki Whitehead.

Devonal to Cream and Cider ** Love, Could I Only Tell Theo "..., Capel.

9:30—Haif-an Hour of Dance Music by the Station Orthestrs

60.0 WEATHER FORECAST and NEWS.

5: H. from London

Mr. E. KAY ROBINSON S.B. from London, Local News

1:30. Orthestra

State, "Badet Russ. 1.

.) 30. Orchestra
State, "Badet Russe A. Lunged
6 35 Dance Music by HALL'S BAND,
relayed from Glencagles.
11 45. 430-8 dawn

A our er Mango M Dewot.

A compler equinat a musical item unimers the name of its publisher. A key the of publishers will be fraud on page 271.

WIRELESS PROGRAMME—WEDNESDAY (Aug. 6th)

The witers "4 8." priored to italics in these programmes suggests a Simultaneous Broadcast from the station man

LONDON.

20025 4 O. Military Band Concert

by the Full Board of 175 Performent of THE ROYAL MAINTARY SCHOOL OF MUSIC, It does Hall, Tencher and Under the Direction

Allert protection (b) Annact

M. Lart of the Country by A. Bonnet Card.
The Hant

Excerpts from the State, "The to

in) * Mara ", (b) " Jupiter -

Benedicurs Markens (1)

Raid, Bri

" God Save the King Takes of Many Homes" (1), by Kasha Herrick

600 , CHI B NS CORNER, M and a set of the se

to all Son no.

Mr. W. A. HUNTER, F.Z.S., on "Field as a Holdey Sport." S.B. to other

Stations. Local News.

7 20- 8.G. Interval

R.O.— EI RANOR HERBS, ETTIWAITE Rendings from Mode Australiana Poetry S B in Bournsmouth

8.15. "THE CONSTANT LOVER"

A One Act Councily of Youth by St. de-

Marak n

S. H. to Raurermonth ' As of old when the world's heart wa

F et CLAUS THE MAN FOLL A LEWIS EAST VIEW LAND BUSINESS OF STAN MUS C

ba DATES.

(the Celebrated Russian Ten ex-

MAURICE COLE (See Found of B.R. to other Stations

Descriptive Notes specially proposed by M. RUSING will be given before his somes

"The Dreary Steppe · Smoothake Greichanison

" He is in Song (" Sadko ")] Rimaly horomon

"En Astemne" (Astemne Astemne Astemne

Storage. "The Star" M obcooms Monteorgaky to The Land & Stevenside

" I'm Flow Pianolerte Stu-

Etode in V Sharp Minor } Some n Rochman no I dele als

Romanco

"Ah! Do not Depart Bucha an acc O.O.—TIME SIGNAL FROM GREENWICH WEATHER FOREGAST and 2ND GENERAL NEWS BULLETIN, S.B.

Ve Qt IN WADDINGTON on Leading Remarkes An United Alled Pro-No to some

10 35: THE SALOY ORDER AND SALOY HAVANA BANDS on from the Servey Hate (S.B. th. St. 16)

1 30. Class dos ..

Announces J S. I same

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60-2-30 WOV VS COR D - N a N

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+ 30 Agra droud Westner Force

-4.35-6.30 CR LDRFA S CORNEP

6.30 6.55 - Tours Corner Score Ra

1 "A Newspaper of 1716.

L WEATE R FORGE SEP and NEUR

L WEATE R FORESCAST and NEWS

SB from London Mr. W. A. BUNTER. SB from London Local News

7.30-8.0. Interval

S.46. Receion of Russian Music by Rasing and MACRICE COLE. S.B. from Landon EQ. WENTI ER FORECAST and NEWS

Mr QUINTIN WADDINGTON S.R. from.

10.35. THE SAVOY BANDS, S.B. from

11 30.-Chan dosen. a see J C Paters

IMPORTANT TO READERS.

LETTARS FOR THE ELITOR should be addressed to "The Budio Times," 8-11 Southampton Street, Strand, W.4.2 LETTERS FOR THE BB.C., containing

programms suggestions or crustisms, should be sent to the Organiser of Programmes, 2, Savay 1144 W.C 2

The Radio Times," the afficial organ of the British Broadcasting Company, Ltd., is con-cerned solely with broadcasting programmes, and the technical problems relating to their LTB OR 1 ASSESSED.

"RADIO TIMES" READING CASE.

Messes: George Newmen, Ltd., have now prepared a handsome case in red cloth with gilt lettering for "The Radio Times complete with cord down the back to hold a copy of this publication. A pencil is adapentable to the littener during the course of the prop amme, and thus a included conveniently in a slot at the ride. Listeners should order this to-day from any Newsagent. It is published at 2s. 8d., or send 4d oxten to cover postage for a case from the Publisher, 1-11, Southampton Street, Strand, London, W.C.2.

BOURNEMOUTH.

243-545. - E hor Rowland (Solo Propoforte the Brown Explants Throng THE ROYAL BATH HOTEL DANCE OR CHESTRA, relayed from Kog's Harmonia, Mageal Director, DAVID S. 14FF). To ke to Women, Mrs. F. Sharpo on "A Turnstany Walking Tour

543-645 CHILDREN'S CORVER

I WEATH R PORES AST and NEWS No W. H. SMART on " Marriago Core

nontes in Konn Lord New

7/30-6.0. To organ

8.0 8 4%. Programme S.B. from Landon

8.45. Recatas of Russian Marie by Roung and MAURA E BAILES N.H. from Landon Lo WEATH R FURES AST and XFA

S.R. from Line Mr. Q. INVIX WADD NOTGN, from Land

Itexal Bort saleges, Somery T. k. S. R.

an Land

* 35. THE SAVOY BANDS. 8.B.

Anno more John H. Revenend.

WINDSHIELD FO

3.0 4.0. Falkmap and his Grebestra relayed from the Capitol Cin

5.0-5.45. "SWAS" "FIVE OCLOCKS The Stat on Orcosetts. To keto W note Weather Forward

A 15 0 30. -CHIL BEN'S CORNER

6.30 6.43.— Photograp. y as on Art " ,III), by T. J. Lower

7 0 .- WEATRER FORECAST and NEWS.

S B from Londo

Nos ELEANOR VACHILL, F L.S.,

Member of the Boron all Escandor

C in of the Bestsh lates, on "Flowers
of the Week

The British Musical Renaissance. II

7 30. The Works of William S. Manson. The Works of William B. Manson.

Kilea in Action July 184, 1810.)

THE PERILAL HODESON TRICE

ALBERT ANMIONS (Viole)

CEDRIC SHARPE (Victorial SHARPE (Victorial SHARPE (Victorial SHARPE (Victorial SHARPE (Victorial SHARPE WALTER WILL DOP (Testerial SHAPE VIRA McCOMB TROMAS (Solo Piano Institute Institute

V. RA. McCOMB TROMAS (Solo Piano forte)
L. Trio for Vio.in. Cella and Piano.
Andante. Aberro Agrato
H. Baritone So.
"When I came lass to Louisw?"
"Lavenest of Tress
Thank no More. Loo
I Pianoforte Solo—Prelada and Pigna
Tenor Sunga with Orchestra

Sciences

Pianoforte No.

Pianoferte Mc Four Eng ah Country Dances.
Morels Dance, Maypolo Dance, Old
Men a Dance, Ju.

8 45. Rect al at Russian Mone v Reging and MAURICE COLE S.B. from London, 19 c. WEATHER FORLCAST and NEWS.

S.B. from London Dr. JAS. J. SIMPSON, M.A., D.Sc., on "Ramances of Natural History" Local News.

10.35. THE SAVOY BANDS, S.B. from

11 80. Close down

Announcer's C. K. Parague.

A pumber against a musical stem sudirates the name of its gublisher. A boy list of pub select will be found on page 37.

WIRELESS PROGRAMME—WEDNESDAY (Aug. 6th.)

The tablers 5.5 printed in staller in Basic programment signify a Simultaneous Transcent from the staller men-lianed.

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2.6.30 WOMENS HALE HOUR CORRESPONDENTS MOTOR WORKS

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4.0.20 Gardens, Southpast of the Muracipa
5.0.20 Gardens, Southpast of the Muracipa
6.0.20 Gardens, Southpas

Lord Near

2.30 Bit Leading

Something for Everyone

THE 22Y CACH STAY CIV ES WREFORD (Enterta G A DATCHHURN (Base)

March. Marching Old of the Guards

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Dur erst (Harles Wreford,

For One Night One

Orchestra Afginene. In et Music Iron: Le Ud

150 WENTHER FORECAST and NEWS. S & from a dan Mr QUINTIN WADDINGTON

R + Horrienters Society Talk

Land News.

DOSS THE SAVOY BANDS, 8 B

11 30. -- Close down.

tagat over H B. Bre to

NEWSCHIEF STREET

3.4: 4.45 consert. The Status Lagra-Or as m. Concueror W. are A. 1 100-05

4 45 5.15.-WOMEN'S HALF BOUR

6.15 b) CHILDRICAS CORNEC Society Bod Sange

co 6.30 Scholars, Had Hour.

6.35 0.50. Farmers Corner: Prof. Chichrist News total Novel.

7.0.-WEATHER PORECAST and NEWS 5 H. from Landon, Mr. J. L. VIIISON, B.A. French Talk Lord News

7 20-5.0.—Interval.

DOROTAY HEIMRICH Merce

* At Columbine's Grave " The Buyalet Market Sha (2) to Princes " Havell d Death ! Caleraty Try Life and Death ' The Old Stune House " (Peacock Pie Limb 5 H alex " fattle Bo Peop "

8 55 Recits of Russian Music by Rosing and MAURICE COLE. S.B. from London 10.0. WEATHER FORECAST and NEWS 9.35

S B. from London Mr. QUINT N WADDINGTON

Luca News For do-

10 % T. H. SAVOY BANDS, 8.H. from Lo. 6%.

title to sendow-

Announcer O. B. March

ASSESSMEN.

5.45-4.30. Har Sam of (Par otto Rev alt 9 30-4 45. FEMIN NE TOPICS:

50 B DREAS COUNTY

7.9 WEATHER FORECAST and NEWS S.B. tenas London Mr. W. A. HUNTER, S.B. tram London

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30-7-45. Interval

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Sunderson Li

The Temple Bell Moncking Oney Seven Little Mary Fawcett The Entry

Agues M. Dykes.

8.4a. Recent of Russian Minds by Rosing and MAURICE CCLE. S.R. Fram London 10.0 WEALBER FORECAST and NEWS

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Mr. QUINTIN WADDINGTON. S.B. from London.
Roya Hortico tiera Society Tala. S.B. from London

Local News 10 L. THE SAVOY BANDS SB from London

1. 30. Cose down & D. Simpson

GLASGOW.

1.30 + 10. The Wireless Quartette and Bot y Wassen (Soprato).

4 to 5 to TOPICS FOR WOMEN Casen

5 5 6 5 CHILDREN'S CORNER Singles Less in 1 A intie Cyclone

6.0 C.5 - Weather Forecast for Farmers

6.5 Weekly Morse Code Lesson by Uncle Spalie

, 6 WAATHER FORFCAST and XFAS S B from Landon

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1C35 THE SAVOY ISANDS S.B. 18

1. 16 Close a swa.

Announcer Herbert A Carrothera

A cumber against a manifed stem indicates the came of its publisher. A key list of publishers will be found on page 237

EVENTS OF THE WEEK.

SUNDAY, August 3rd.
BOURNEMOUTH, 3.0 Band of Royal Tank Corps. CARDIFF, 840. Game of Oratorio.

MONDAY, August 4th. LONDON, 80 "A Summer Souffle." S.B. to all Stations.

MANCHESTER, 14 39 Drama, "Gentle

TUESDAY, August 5th.

CARDIFF, 2.8. The Crowning of the Bard at the Royal National Established of Wales by E.R.H. THE PRINCE OF WALES.

GLASCOW, U.S. Play Night

WEDNESDAY August 6th.

LONDON 3.33 Concert by the Band of the Royal Military School of Music, Kneller Balt 8 45. Recital of Russian Music by

ROSING, assisted by Maurice Cole (Solo Pianoforta). S.B. to other

Stations.
CARDIFF, 7.30 British Musical Re-naissance II., Works of William B. Maniaa.

THURSDAY, August 7th.
LONDON, 8.0 " Il Seragho " (Mozart).
5.B to all Stations.

FRIDAY, August 6th. LONDON, 8.0. A Wireless Revue, "The World in Music."

CARDIFF 8.0 "The Growth of Wales, I Prelaminary"

MANCHESTER, 9.30. Bach Recital by Harold Samuel (Solo Planoforts).

SATURDAY, August 5th. CARDIFF, 7.45.—Pianeforte Recital by Harold Samuel

Continental Broadcasting.

At the suggestion of many readers we publish below a comprehensive list of Continental Broadcasting Stations with their times of transmission. Owing to frequent changes of wave-length and times of transmission, absolute accuracy cannot be guaranteed, but each time we go to press with this list it will be carefully checked with all available information.

FRANCE.

1) If PARISIEN-Paris, 352 m. -lex, principled transmissions almost every
evening at 10 30 p.m.

RADIO RIVIERA— Nice, 360 m.—
II a.m.—Concert and Nowa, 5 p.m.—Conert and Nowa, There is sometimes 8
ancert as 9 p.m.

I OI SUPERIEURE DES POSUES O'T 11. / RAVIVES—Poris, 450 m. Puesdo 8 15. Lecture, English Lesson. (or out Other days 9. Lecture, Operator Transcossion and Convert

POSTES ET TELEGRAPHES... Lyons, 470 m. Dody transmissions 10 30-11 15 a m.

RADIO PARIS CLICRY-Paris, 1780 m
Week-days 12:00 Stock Exchange and
News Butletin, 12:48 Concert, etc. 5.45
News Buffetin, etc. 6:30 Lecture and
News Buffetin, Paris, Surdays 12:45
p.m. Observt 1:45 News, 4:45 Concert

*** News 8:30 Racing results, et
ft p.m. Concert 10 p.m. Dance Music

FREEL TOWER (FL. Far a book or Daily 740 a.m. Weather P as ast 14 La n.m. Fine Signal. 6.13 Concert. 8 p.m. Weather Forecast. 11 p.m. Weather Forecast. On certain days when L Ecole Superiors in broadcasting this mathon r in a a cever or concert or others or 100 m.

GERMANY

. I. LEFUNKEN Herler, 200 and 730 m.
8 p.m. Concert, Wednesdays only. There
re experimental transmissions at ten

HAVER fit. 392 m Sundays 10 c.m. Concert West and So.m. Morning Topics. 4.30 cm. 1 (8.30 p.m. Concert

BRINLAU - 415 m.—
Sunday 10 a.m. Sermon 12 h Time
Sanal Week days, 1.0 Stock Fachacge
News, 8-6.30 p.m. Muno, 3-6.30 p.n.
News followed by Concept, which some
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10.30 p.m.

NONHATS—Berlin, 430 m.

Sundaya 8-11 p.m. Concort and Dance Masic. Week days 10 a.m. Mariat Reports, etc. 10.15 News. 12.55 Stock Inches go News. 12.55. Time Signal. 15 a. 8 News. 12.55. Time Signal. 15 a. 8 News 12.55. Time Signal. 15 a. 8 News 12.55. Time Signal. 15 a. 8 News 12.55. Time Signal. 15 a. 8 News. 12.55. Time Signal. 15 a. 8 News. 15 News

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Week-days 1 p.m. News Holletin, etc. 4 30 p.m. to 6 p.m. Concert. 7 30-6 p.m. Locture (necessonally). 8 15 Concert

FRANKFURT A.M. 467 m.—
11 5 a.m., News, 2.36-4 p.m. Concert, only by request. 3.56 Monday and Thursday, Cattle Prices. 4.36 6 5 m. Orchestra. 7.30 8.30 Occasion a Lecture 8.30 Daily Concert and News 2.45 Findaya only, Dance Music. (Stocksys there is a Children's Hour from 4-5 p.m.

MUNK R. 486 m.—

8.8 to a.m. Market Prices. 143 2 p. a.

Nows. 2 p.m. Time Sepat and Weather Forecast. 4.30 M p.m. Orchestra.

8.15 p.30 Concert and News, an week car. 9.30-9.45 News Huletin, (On Secondarys from 9.40 there is a Dates. Moste, and on Sundarys there is a Concert. 5-5 p.m.).

ROMOSWUSTERHAUSEN — (Near Pert. M. 16 50 11 50 a.m. - Concert St. mlaya

KONIGWUSTERHAUSEN — (Near Ber ²⁰¹⁸⁾ on From 7 20 a.m. to 10 p.m. Mexast hours

From 7 30 a.m. to 10 p.m. Monast hourly News Busetine are browness:

KONIGAWUSTERHAUSEN -- (Near Berhau, 2000 m., 10.40 Concert (Fregular).

KONIGSWUSTERHAUSEN — (Near Brens) 2800 m.— 11.50 a.m.-12.50 p.m. Sunday Concert

RONIGSWUSTERH M *25 - (Near Berlin), 3150 m.—

From and Stock Exchange News and Quantitions, chaost hourly Summers exception.

BELGIUM.

RADIO ELEXTRIQUE (SBR) Brissels, 202

7 p.m. Concert 8 p.m. Lecture of Clidden's Corner, 8.15 p.m. Concert, 30 p.m. News Bulletin.

HAEREN (BAV)—1100 m. 1 p.m. and 5.50 p.m. druly Meteorological Reports.

HOLLAND.

THE HAGEF = 1050 m.— 11 a.m. 19 p.m. Sandays Concert

TH HAGTE (PCKK) 1050 cn,---3-6 p.m. Sundays Concert

THE HAGUE (PUUT)-- 1050 m.-10-11 p.m. Mondays Concert

THE HAGUE—1950 m.— 9-11 p.m. Tuesdays Concert

AMSTERDAM (PA5)--1950 m.--8 20-10.20 p.m. Wednesdays Concert pregmars.

VAZ DIAZ A deNCY 2 as m Dady Stock Exchange Quotamone and News, almost hourly from 8,30 s a SWITZERLAND.

GENEVA (HBI)-1:00 m.-Week(aya 1 15. Weather Fore as News, Lecture

LAUSANNE (BB2 800 m.-

ITALY.

ROME: 450 and 470 m.
41 30 6.m. News. 12 noon Time Sc.
6.30-6.20 p.m. Concert. 9.15 Irreg
Operator Transmissions.

SOME—1800 m 8.0 pm. Concerts (Teregular)

HOME -3200 m. -10 n.m. Concerts and Experimental Tran mass 2 10 30 s.m. Irregular T ar

SPAIN

MADRID—480 m.— 6-8 pera Lecture, Consert and Dames Management during

MADRID-1800 m. 8.30 Concert tirrige ar).

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ABLY 1100 m.—

Sandays II m.m. 12 noon, Concert Wice has 1) and a Royal 130 p.m., j.m. 0, tons x tange \$\phi_0 \text{tons}, 7 15-9 p.m. Concert, Nowe, Weather Forecast, or

K. PUAR IV. 1800 or Sunday 10-11 a.m. Concert. Week days 2 (0). Stock b.x. fazgy Spor. New

AUSTRIA

RADRO (Vienna)-400 m. -4 36 Daily Concert

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12/30 p.m.-1 p.m. News dody

SWEDEN,

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7 0 p.m. Tuesdays, Francys and Sat 1 1755, Concort.

t.OTHENST RG—600 m.
7.9 p.m. Mundays, Wednesdays and Thursdays, Concert. (This wave length is liable to alterations.)

RADIO AKT Sturbholm 470 m.—
7 S p.m. Sundays and bondays, Concer8 p.m. Timedays and Thorodays Concert

11 a.m. Sundays religious service. 8 p.m. Monday and Mednesday Guest p.m. Friday, Saturday and Sunday visitory

DENMARK.

LYNCHY GNA 3 m m. 8. 8 p. m. boot 3.

WIRELESS PROGRAMME—THURSDAY (Aug. 7th.)

The fathers S.B. printed in italies in these programmes agenty a Simultanear B added from the station men-tioned.

LONDON.

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To k by the Bod - Society of Great Britain.
S S to all Stations Lines News.

S b). Mr C LEDWARD WOOD I by on the of the Challes. S H to all Stations of Sergelia.

(The Haram)
An Opera in Those Anta by Mogart
S B to all Summer

ALGMENTED WIRELESS OR, F. STRA and CHORUS
Conductor, PERCY PITT
A FAND II of the Opera B Sensible
IVM, SBONM, FROM GRUENWICH
WELLSTER FORECAST and 2011
ENERGY BULLETIN SB
to all Stations, Local News
10.12 Act III of the Opera "II Sensible.

Андому и J. S. Dongson

ELECTRICISMS.

3 70 4.30. The Station Piono Quin atte: Con-ducted by Frank Cantell. Derothy

5 0 5.30 WOMEN'S CORNER Frank Cantel

of Heethoven

0.—Boy Scouts' an Garl G ades Nova, & EATHER FORM AST and NEWS. S.B. from Lands Pr. RCY SUHOLLES S.B. from Landon Radio Society Talk. S.B. from Landon

Lorent Now

8 0.—" Les Petits Riches".

S. B. Jeon Landon

8.10.—Mr. C. LEONARD WOOLLEY S.B.

from London \$25,-" IL SI,RAGLIO." S.B. from London. 10.0,-WEATHILR FORECAST and NEWS.

S.B from Lin do
Local News
10.15.—"Il Seragho" princed). S.B. from
Lando

10.55.-Close down Announced : J C. Paterson

BOURNEMOUTH.

The Reg min S. Mouat (Yohn, Thomas Blangworth (Ceile), Arthur Marston

In der Falks to Women J. S.

to June B. Schom. The Reasswife's
Claiment Alphabet
5-15-6:10 - CHILDREN'S CORNER
6-10-6:15 - Boy. Schools and Ged. Guides

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CARDIFF.

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the Lanton Resignary

5.0 5.45. -**5W & S. *** FIVE OCLOCKS
Mr. Lancon J. W. Bann, Respect of Art
The National Misser of Walter, Misser
Stevens (Mezzo-Spirano), Weather Fore

5.45 ' M. CHILL REAS CORNER 6.50 3.45. ' How to Speak French ' (V)1.) 6.45-0.55. Bay Scouts and Carl Gamles News 7.6-WEATHER FORELAST and NEWS 8.8. Jame Landon PERCY SCHOLES. S.B. Jame Landon Radio Society Talk. 8.B. Jame Landon Level New Landon

Local New

S 25 (I. S. RACT) ST Sulfacto 1) WE TI B FOREAS, and NEWS 8 B from Lordon

Loca. Non
13 15. - Il Seraglio" (con mued). S.B from

Londer
Lose comp Announcer A. H. Godoord

MAGURESTEE

11 20 12.30. Concert by the " 2ZY " Quartette 5.0-5.10.—Boy Security and Girl Gordes' News. 5.10-5.40. WOMPAS HALF HOUR

5 10 5 40. WOMEN & HALF HOUR

1 (30 4 U.E.) N.S.CELN R

5 30 WALEE WILDOUP Floor

Floor Committee Committee Program of Committee Committ

from London

8. H. SERAGIO." S.B. from London

11.0. WEATHER FORECAST a NEWS.

8.B. from London, Local News.

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pianos are in use at the various stations of the B B.C. S ragho " (cant need). & H. Iron

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NEWCASTLE.

3.43.445.—An Hours Chamber Maso: Her-on a M Lead's Quartetts, Mary Jacob contact.

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6.0 a 30 -CHILDREN S CORNER: Margaret

70 WEATER FORELAST and NEWS.
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Local N and A are 1 N are 1 N are 8 B. from London 8.10.—Mr. C. LEONARD WOOLLEY S.B.

from London

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10.0. WEATHER FUICE ST neal News

S B. from London, 1 and News

10 18.—" H Setagho" (continued). S B. from

La glon Close down

Announcer H J. M. Kee.

GLASGOW.

2) to a Pianoforte Recital by Harold Samuel.
3 50-5.15.—The Wardess Quartette. Charles
Wreford (Entertainer). Topics for
Ward Bessie Watt (Soprano).
h. C. DREN'S CORNER Weekly
Chat by Uncla Phd. "58C's" Stamp

6.6-8.5.—Weather Forceast for Farmors, 6.30-6.40.—Boy Scouts' and Ord Gudes' News. 6.40-6.55. Dr. J. M. CLARK. of Glasgow University, on "Victorian Literature."

IN WATHER FORECAST and NEWS.

Sh from London PERCY SCHOLES. S.B from London Rodin Society Talk. S.B. from London. Local News.

8.0. - Les Petits Rions ' Moiari 8 B. from Lomlon. 8 10. Mr. C. LEUNARD WOOLLEY, 8 B.

9.25, "11 SFRAGLIO" SB from London
10.0. WEXTHER FORECAST and NEWS,
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WIRELESS PROGRAMME—FRIDA (Aug. 8tb.)

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8.0 March. Father Vetory (France)

Two Flemish Dances (Belgium)

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6.30 6.45.-- "How to Speak Welsh VI by Haw J. Hows

7.0.-WEATHER FORECAST and NEWS

S B. from Lond a P DAN JONES. FRA.S., on Mr DAN Astronomy. Local News.

7.30-8.0. Interval

8.0. The Growth of Water. 1. (Preliminary).

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THE STATION ORCHESTRA

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" Mat" (May") ... John Thomas Brythonic Overture"

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VII. Readings from Welsh Literature.

VIII. The Chair.

"Ar Don't Place Gwyn Toodd" ("1 Wes Tossed by the Wind")

Dr. J. Parry

Goed yr Hydref" ("Autumn Woodlands")

V. D. Emign Evans

Y. Nent ar Blodocyn" ("The Brook and the Flower") Tota Pr. s.

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* H. from London. Topical Talk Local News

10 30. -Close down.

Announcer W N Settle.

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12:30-1.30. Midday Music, relayed from the five to Picture Theatre
2:30:30 MOMEN'S BALL ROLL R
3:50-4:50.—Concert by "SZY" Quartette.

5.45-8.0.-Ch. dren's Letters 9.0-6.30. CHILDREN'S CORNER

7.0. WEATHER PORECAST and N. WS S.B. from Landon Mr. H. E. POWELL JONES. S.B. from

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English Music-Irish Plays.

THE "2ZY" ORCHESTICA CAPAL FOCARTY

March, "Fame and Clory" Man
"A Children's Overture" . Roger Quider
Four Old English Dances Cowen
(AHAL FOGART)
will give the Irish Play
THE HALF DOOR
Cohal Fogarty.

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WIRELESS PROGRAMME—FRIDAY (Aug. 8th.)

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Man," by Larry Gregory Some Short Stones HAROLD SAMUEL Jan's Cricket Musch Jon Steamer 10 55.-Close down. Boch Announcer: W M Showen * I a an Come of the AST and A. W.S. S. B. from Cond-a THE RESERVE 3.30-5.0.—Scottish Afternoon—The Wireless Quartette. Feminum Topics, Isobel Tomed Tack Layetta Die 1911. Slaw (Sopress)

5.45-6.30 CHILDREN'S CORNER Sometime
Hour for Young and Old Kuldies. Peeps
into History—" Prolony at Alexandria."

7.0—WEATHER FORE AST and Al AS 10.30 S.B. from Lordon r. J. BARCLAY RENNET, Secretary, Royal Hornechtural Society of American, H & Close down Announcer H. B. Brenan. NEWCASTLE. The Centenary of the Society Local Naws. 3.45-4-45 -- Cancert : Else Tillev (Solo Pinno-forte) Elia Dent (Suprano), Bert Quick 7 30 8 8 Laterval. 8 9. - Land MARA ABET SACKATLIE in a 4 45 15 WOMENN HALF HOUR C. M. Easter on "How Poetry Helps." 6 15 0.0. "CHILDREN B. CORNER BESTER Rec tal of her Poetry. S.B. from Edin CATREBINE DUNCAN (Controlto).

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THE WIRLIES OFCHESTRA.

Overture, "The Higuenots' Meyerbee
"Danse Barbaro" Fine Operatic Hight. Se totars' Half Hour t 4-5,50. -Farmers Corner; R. W Wheldon on Call Regime 71 -WEATHER FORECAST and NEWS. Mayerbear N. H. from London Mr. H. E. POWELL JONES. S.B. from London n - I Norm An Hour of Musical Comedy.
MAY CRANTS QUARTETTE PARTY
ETHEL FOWICES (Soprano). MAY GRANT Conscator ADAM NOUKILS Tearr) W J. TAYLOR (Bardone, Selection, The Tales of H. Hannan" Cufberate D mean.
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8.0. Lady MARGARET SACKVILLE, in a Recatal of her Pootry S.B. from Eden burgh. Rumour Dance—Song.

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THE STATION ORCHESTRA

Orthestra. North State, "Three Scottish Symphome Dances"

Wangh Wright (1)

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"Ya Amoun. Songs of Honey "A Bodoum Maid" to the Reser. 1 (10.0.—WEATHER FORECAST and NEWS. S. B. from London.
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10.30.—Dance Music by HALL'S BAND, relayed from Glemenglas Hotel.
11.30.—Close down.

Announcer Harbert A. Carruthers.

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WIRELESS PROGRAMME—SATURDAY (Aug 9th.)

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Popular Evening. THE STATION ORCHESTRA.
Conductor WILLIAM A. CROSSE.
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Local News.
16.30. THE NAVOY BANDS. S.B. Jenn.
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9.30 HALFAN HOUR AT WEST LEY

S.B. from Lordon 10.0, WEATHER FORECAST and SINN. B from Lindo.
PATRICK MACGILLE S.H. 1 ... Mr Lauden

THE SAVOY BANDS. S.B. J

12.0. Close down Announcer A. M. Blitonie

GLASGOW.

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5.40-6.55.— Prof. B. B. LEITCH of West of Scotland Agreements College, on Milk and Dairy Farming.
7.0.—WEATHER FORFCAST and NEWS.
8.B. from Landon
Br. HUCH MAIN S.B. from London
Level Name.

Local News 7 30. - Mr ROHFRT UBE on "The Forme of Pictorial Photography
7.40. Roe in Society of Glosgow Talk
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THE STATION ORCHESTRA
Conducted by ISAAC LOROWSKA
Vocal Numbers by DANIEL SEYMOUR
(Tenor,
Orchestra

(Tenor, Orchester Congress of the Two Target (31), June 100. My Sweets West Away (4); Walin, Z. dir Zie. (32) Ferrice Too ve at a see themen Bery Vet to the Horsey Keep Your Tail Up (6), Frient Lest Vets on the book Porta (3), Bates, Honorale Less (6); One-step, "Who Threw the Water in the Tart at 8 Mar. For tratable to the Walin the Dark "; For-trot. "You I do I less to Three See I was I go to the See I was I was I go to the See I was I wa 8.0.

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Owing to the abolition of the British Broadcasting Company's Tariffs the current prices of the more popular Marconiphone models are now as set out in this announcement.

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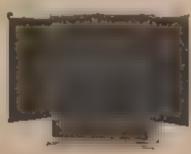
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Audres

Pieces in the Programmes.

A Weekly Feature Conducted by Percy A. Scholes.

MOZART'S COMIC OPERA "THE HAREM" 11 Seraguo.

(To be S.B. from London on Thursday) On August 1st, 1781, Mazart wrote, "yes-terday young Stephanie [a himetias, gave me a librette for an opens. It is a very good one on a Torksh subject . . . The overture, the chirus in the first act, and the last chorus of the whole thing I shall work in Turkish music. I am so designted at have to compose that the first sungs and the terret in the first not are already finished."

The Hurem has had many performances in Loadon, the very first one (1827 being, like ours to-might, in English, The British National Opera Company has often performed it

INTRODUCTORY INFORMATION

Certain facts are to be understoon before the

opening of the Opt
CONSTANCE, a Spenish lady, has been
carried of, with her livery young English main
BLONDA, to the palace of SELIM PACHA.

a s by gurtle persuasim. She, however Spaniard, BELMONT, whose servant, Ph. BILLO, has obtained a post under Selim and who is hunself operationly hanging about the palace. Petrilli is in love with Blooms. What follows below is a "Listener's Guil-

and should be kept before the eye as the perlormance proceeds,

THE OVERTURE.

"Tarkish Musio" was a general name used in the time of Mizart and Beethoven for the noisier percussion instruments supposed, not noisier persusion instruments supposed, not altogether incorrectly to be characteristic of Turkish music. Thus the Overture is written for the neural orchestra (without Trombones), plus Piccolo, Rig Dram, Cymbals and Triangle. It is easily followed, consisting of three nections, (i) Very quick, (ii) Moving steadily, (ii) Very quick which the middle section is an artic pation of the opening Am of the Course

an antic pation of the opening Air of the Opera and the last section a purtailed repetition of the first section.

ACT I.

(The Garden of the Palace.)

The Overture leads directly to the first Air-in which BELMONT (Tener) apostrophizes Constance.

Schule overscor OSMIN (Boss) now appears, ankiloquizing. In a duct, Relmont trice to attract his attention at last he succeeds, but gets little out of him; Oszam doubts Pedrillo and is made additionally suspected by the arrival of another stranger

Beistont seaves him and PEDRILLO (Revious) caters. In a brief dialogue, Osmis is more bootsh than ever and breaks into a Song, Oh, these danders hither recovery. He next goes away. Beinger returns, greats Pedrillo, and implice about Conserver.

PRESELLO proposes to introduce RELEGAT to the Pacha as a skill architect. Believe sings an Air, Oh, how ordered beats my lovedistracted heart.

Prograto now hides Balmowi, as SELIM PACHA (speaking part) arrived with CON-STANCE (Soprano), accompanied by the Janusariss (Turkish Guards), who provide appro-prests music (see references to "Turkish Music"

SELEN presses Constance to explain her melancholy, and she sings an exceedingly florid Air about the lover she has left, beginning.

Ah, I loved him, was so happy.

Before Settis leaves, Principle heaves forward

BELMONT, the "urchitect." SELIK, pleased with him, promises to see him the next day

The two Spaniards are, of course, overjoyed, and are entering the palace, when Osxin bars their way, and warns them that he is as wary as the Pacies of pullible. They forn in a Trio, in which Osmin sings March, march, march, pet you gone, while the other two sing Ha, ha but We do not fear ther. (See Mozurt's referento this Terzet." above

ACT II

(Again in the Gorden of the Paluce.)

This Act opens with a Song by BLONDA Naprono which she solvoguizes on love She is in the Parace Garden, and Osmir now cornes and craims her as his , her reply is spirited.

They end by sanging a Truct, I leave thee, but bid thee becare (Osman), and Begone then, thy words I cun apore Blunda):

Spoken dialogue now ensues for a few momenta. Constructs enforce: Bloshia leaves her, after a few words of encouragement, and SELIM comes. His partence is well high ex-hausted, and he threatens Constance with

Both of them retire, and BLONDA and Prioritio meet. Pedrillo tens Blonda that a rescue is planned for midright

Cunstance again appears, and sings two long Airs, bewailing her pught-

In contrast BLOSDA follows with Oh, when plensure, Oh, what joy!

PEDRILLO next nerves himself for the rescue by singing Haste to the battle !

Presently Cruzz appears and Prounts procreds to make him drunk. Soon they are singing Long live Bacches, and Long life to the maident, the fair once, the dark ones,

After this, Permutto takes Omice off to bed, and then comes back to tell Beimont and Bloods how he has disposed of him. Belliour sings When the tears of joy are flowing.

Finally Constants arrives, and the two pairs of loves join in a long Quartet.

ACT III.

(An open space before the Palace, with a view of the state

BELMOST and Scene L It is nothight Parantan are outside the Police Period says. he will make a tour of suspection, and seaves Beamont, who surge On thee I place my so:

After this Pedrillo returns with the news that all is ready. He tells Belmont to go into a comer whilst he gives the signal. He say a Bunnance, In Mooriek lands afar from home, A mord was capture kept

Soon CONSTANCE appears at the window but at the moment of escape Osmix appears, with a Negro Mate, who has warned hun

Course arrive, the fugitives are arrested. Ososty sings a song of triumph

SCHNE II. This scene is in the Pache's apartment, whither the prisuners are brought

The Pacsia facile that Belmont's father was lus latter enemy, and sentences him to torture. CONSTANCE and BELMONT sing a door, begintung Oh, what a fuls? What bitter anywish (Helmont, and Cense, my beloved, coose from greef and anguish (Constance).

At the end of this duct, SELES suddenly relents, and, saying that he despuses Belmont's father too much to adopt his methods of

treating an enemy, frees them all.

The Opera node with a big Finale, in which the four principal characters sing the praise of the Pucha, Osmin grambles at his elemency, and the Guards join in a general possiNot a Moneyless Old Age for ME



£3,450 at age 55, and my life is also insured for

23 and at 55 Think of it, you mee who magnes you count save? And, wond you, I haven the large meeting. The magnitudes means and necessary expenditure is probably no greater then, if as great as yours. But, there is a margin, and it is out of it that, thanks to the Sun of Canada Investment insurance than I am making such sure francisis provision for my inter years and securing, also, manedrate protection for my depondents. And its all so simple

And the all so simple. I make my first deposit—an amount I can could spare out of my incums, Immediately my life a instruct for £2,500, pass half of that deposit, I continue the deposits and as a year fight ma a richer man and my family better provided for—one-half of every deposit have added in the automat of the role.

being added to the amount of the poli-And at 55 years of age I shall receive a cheque from the Sun of Cannia for £3,450, made up of the Folloy sum of £2,500 and estimated profite of £950, or, if I then prefer, a guaranteed income for life of nearly £300.

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is a series of the series of your investment of your investment

2. When themme or each sum I shall receive in desire).

What sum will be automatically provided for my family in the event of my death. How much income that I shad save each

In the event of total disability, how much

shall I draw monthly.

. .

Exact date of birth

Married or about to be

Occupation ,

Name .

Address

By Radio from the Stars.

By Joseph H. Elgie.

THE presence of Mars, the Red Planet, in the svening sky has revived the talk of signals." being made from it. What the "signals" are, no one appears to have any idea they are as unmielligable as the credality of these who believe to them. They may be a sort of Martina 808 or they may simply be a reminuer that the senders can do with something to relieve the drynem of their planet—and incidentally of themselves.

B t on this occasion there is more than a bust among the credulous that some of the invisterious agnals have their origin for beyond the Red Planet, for beyond the Sojar System indeed. Where else but among the stars?

The Swiftest Messenger.

Let us, then, examine this amazing suggestion. The stars, in the first place, are suns; each in its way as much a sun as is our own source of heat and light. Therefore, they are no more takely to be inhibited than is our sun. Indeed, we can definitely assert that the stars are not notabled, from which it follows that an S U S or any other signal cannot be transmitted from them.

Let us next in view of the popular impression about these "signals," consider the time if would take a wireless message to reach us from the stars. While a little over a second would suffice to bring one from the moon, about three minutes from the present position of Mars, right and a quarter minutes from the suo, and four hours from Neptune, the most district planet yet discovered in the Solar System, it would take years for a message to come from the stars even from those which are our nearest neighbours.

That certainly does not sound like a paying commercial proposition. The measure star of which our astronomers have certain knowledge could not communicate with us in less than four years, even if the message were dispatched this very night. For the distance of this and other stars is not reckoned in millions of rules, but in billions and a wireless message, like other messages, takes time for its delivery. And the messages with which we are intristing to delivery is the evifest in creation—Light, a messager so swift that in one second of time it can speed a distance equal to that of more than seven times round the earth

An Immense Distance.

It is, however, when we come to consider the general body of the stars that we meet with distances which absolutely stagger one with their mamensity.

There is, for example, that exquisite golden had orb, Araturus, which may be seen low in the north west towards the end of summer. It is easily found by continuing the downward curve of the Great Bear's tail.

We will suppose that our own instruments were capable of sending a message out to it and that the raply were dispatched immediately Before that raply reached us, a period of no less than eighty-six years would have clapsed.

The Constallation of Orien,

An Arcturan News Buretin, it is to be feared, would be just a trifle out-of-date. It would have been forty-three cors or the way to us. If the Arcturian wireless operator just had time to tell us that another star was about to collide with Arcturia, we should receive his tragic message and see the flare up in the heavens, as a result of the courson, at the same moment. The light-waves which had revealed to us the awful doom of the Arcturians, would also have brought the fatal message. Unto that message

was received—either visually or by wireless—wishould still see Arcturus sharing planet like in the second right-skies of summer

If this is a staggering thought, how much more so is that associated with the glorious constellating of Orion, which will appear in the east-south-cost when the dark rights of outumn arrive. In the upper left hand corner of that majestic figure there is a brilliant red star named. Befolgense. For "signals" to have been made from that star and received by us on earth they must have left Betelgense on hundred and fifty-five years ago. Or supposing we ourselves had emailed the star and been answered, that answer could not reach the earth in less than three hundred and ten years after we had signalied in the first place.

A Mysterious Signal,

Yet more overwhelming still a the thought of communicating with or receiving a communication from that other bril ant Orion star named Rigel, which is situated at the lower right hand corner of the constellatory figure. We will suppose that we first communicated with it and asked for a prompt reply to be sent. We should probably have been dead mine his dred years before the reply could possibly have got here. It would be a "mysterious signal" indeed to our descendants.

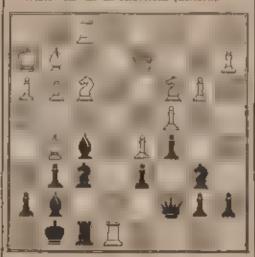
Even that does not exhaust the remotories of the stars. Another nighty leap outward into space can be taken from Riger until a point at tracked which must make even the most optimistic wireless enthumest shrink from contemplating—and yet we can still be among the stars. It is a point occupied by clusters of stars from which if a wireless message of sufficient power bad been sent two hondred thousand years ago it would only be arriving now

So where anyone talks glitdy of "agnals" coming from the stars it is evident, for the reasons (which are by no means all) I have endeavoured to set out that he does not fully realize the significance of the position." And while he is disclusioned as to the storry origin of those "mysterious signals" he has, I trust, gained at least some dea of the awful numerarty of the universe in which he is privileged to dwell.

THE WIRELESS CHESS MATCH.

Pearton of Chesamen in the Wireless Chesa Match up to and including the move on Thursday, July 31s

Whate Mr E. E. Middleton (London).



Black . Mr W Gibson (Chagow),

An Aid to Drama.

By a Playwright.

NOT very long ago I heard a play of mine broadcast from a station of the R.B.C., and that evening I was the proudest man in London. Not, if you please, because thousands were listening to my amnoral lines and silently application, but because, listening to the de tacked way permitted by wireless reception. I knew that I had written a good play. Without the glamour of the stage and the dope" of scenery and light up effects, my little story remained programs and effect v

The Essential Test

Now that, believe me, is the essential test of good drama. Try to sit through Chu Chia Choa with a bag ever vuor head, and see if this worth anything without the pretty lights and the fantastic containes. I am prepared to bet that it is not. The effect of such a play as the Chia Choic is not truly dramatre. It is aimed, not at the intelligence, but at the senses. Whereas, since it cuts out lighting and containe and accuracy broadcasting demands for its special purposes plays that have in their words along the essential stuff of drama.

This, I suggest is a great benefit conferred by breadcasting on the cause of good art. For many young artists are now writing plays specially for the wireless medium, and lot they are prevented at the outset of their careers from falling into the cheap stage habits of the conventional theatre. The B.B.C. is not prepared to else out thin plots or vapid dialogue with Digby battens and wigs by Clarkson. For breadcasting purposes, the play is, first, last and always, the thing. The playwright must now stand on his own legs

Elaborate Stage " Effects."

Which is a very good thing indeed for to drama. Every one who has written plays an every one who has to read plays known just he a car by shoddy and shoppy work can be made to look "just like real" by elaborate standarction and copious mechanical tricks. The silicat words ever given to a silly become may be made to seem convincing if the electrician is here to fixed the hody's figure in roce-pink by " But that sort of thing will not get across the etter. Essentially hollow words will ring very, very hallow at the business end of a crystal set. And nobody knows that better than the dramatist!

It is the tyro in playwriting who will henefit most of all from the dampine imposed by broadcasting conditions. The tyro's weak spot is invariably this tendency to claborate stage-constion and devise "effects" just because that sort of thing is easier to attend to than the hard graft of construction and dialogue. But the wireless ancornes cannot be seduced from concentration on the real play by the fact that the hero smokes Egyptian organization of that the heroine has slingled heir. So the unhappy tyro, writing for wireless purposes, will require to take the trouble to write drama: for an insidious temptation is at last out of the way

Testing Plays by Wireless.

All of which is a good egg, a very good egg. I do not heatate to say that the efforts of the B.B.C in the direction of broadcasting plays will assuredly help us all to improve what the critics call "the present condition of the Eughan Theatre."

And the will not necessarily tend to deprive the theatre-goer of his legiturate pleasure in fine scenery, pretty contumes and tricky "rffects." But it will tend to make for a healther reality in our plays. Let me suggest that every play should be tested, in the first place, over the surriess before an investigation for some of our 'pepular favorities.

Art and the Wheel Element.

Wireless in Modern Life. By E. TEMPLE THURSTON, the Novelist-Playwright.

I may reasonably be argued that there is no avention of the ingravity and energy of man but has its place and its purpose in the scheme of things. Nature, which generation by generation we are all contriving to ignore, wilolways be the well-spring of our actions. The men who make muchine guns wal have to use them. The inventors of death rays will have to employ them for their purpose. Nature abhors waste with all such virility as she all-nors a vacuum, and in the end, with science consumpting Nature to the service of warfare, we may well exterminate the whole of this civilization reducing this planet to a dead world, as dead as the moon. Only the ultimate purpose behind ann boyond Nature herself can fix this issue and it is not the object of this brief article to enter into speculation as to that

A Different Form of Amusement.

Breadensting has become the common possession of as all. It is, as it were, the latest adultion to modern life, and it becomes a question as to what place it fills in that scheme of things to which every one of us contributes with a hind sub-consciousness that is mevilable es at is presentable.

Those little poles and wires on the tops of countless houses in every neighbourhood testify to the fact that broadensting is supplying a need that has been felt so long marnly by those who have neither the means of enjoying expena vs amusements nor the energy needed to participate in them after a hard day's work But this does not mean to me that the institution of wireless is going to supply the same form of amusement as is to be found in a theatre or anywhere where the element of personality and the quality of action and motion are essential to he effect intended to be conveyed.

The Symbol of Machinery.

It is the fault of these modern inventions of science that no sooner are they introduced to the public than their protectes believe it is necessary to relate them to art to make them attractive. It is only in so far as photography can depart from its conditions—as in certain forms of printing which depend upon the per sensity of the photographer in his use of brash and pigments-that it approaches the distinction of being act. And as this can never wholly be schooled by any principle which in essence dapends apon machin ory in any shape or form, it would appear to be a waste of Limi n any who defend ite existence to mag. this claim for it

It has been the some with the estenia. So long as pendent upon a mar turning a wheel, it will no more in than driving a notor bus or az ranging coloum by means of a kaleido-



B E TEMPLE THURSTON

And so also this is not the function of brosocasting. Even when, as we are told to expect there may m time be added moving pletures of these speaking into the transmitter, there will still, there will always be the element of the wheel which here, being unacquainted with the construction of a wireless set. I use in the symboof muchanery.

Plays Performed by Wireless.

But theatrical managers and those associated with any of the aris that can be partially tra smitted by means of wireless, seen, to regard broadcasting as a natural enemy to the art of the theatre, the open, and the concert In this narrow vision of the inevitability of everytaing that is and the abhorrence of Nature that anything should be wasted, I seem to resise. the essential place for broadesstrug in modern

I have listened to a short play performed on the wireless and it appeared to be conclusive to me that the spoken word can never of itself convey action, and without direct contact of personality—as in the sinema-could never usurp the interest of those who care for a play upon the stage

But there is in this generation and has been especially since the war, a thirst for knowledge and understanding in all classes, more especially amongst those for the convenience of deforction called the "lower middle class," upon whose houses I now so often see those little poles with their attachments of wice. And I have begun to think that breadcasting, together with the cinema, is one of the inev table inventions of and for the spread of knowledge and the broad thing effects of education. Lake the cinema, it is a time and energy saving contrivance whereby those, tired with the stress of life as it is to day, can acquire that which is worth knowing at the saghtest expense upon their powers of endar-

The other day, when passing in the train, I saw a woman sitting in her back garden, her hands busily engaged with her knifting needles. and the receiver on her head, listening. It accurred to me then what a slight amount of bergy it was extracting from her and what on indescribable saving of time it must be if what she was listening to was worth while

The Theatre's Complaint,

You cannot take your knitting to a theafre and enjoy a play. The whole offerest and every moment most be given up to it if even the slightest meaning it contains is not to be lost But with broadcasting you can sit in your back garden without the trouble of running for a but or waiting in a queue and make a whole suit of clothes while you are absurbing a form of education which in the end only increases in on bers those interested in ort. For no art on be enjoyed without the mind that is equipped for its appreciation.

The theatres complain of the audiences they get. The managers weep and guash their teeth when they put on a good play that fails by very reason of its intelogence. And here I fancy that brandcasting and the cinema are servants of music and the play—if service is not a derogatory thing in this life where we are all

arryante to the mevitable scheme.

An Emential Need.

The hore existence of broadlending is a proof. of several and another separate views of the order of the proof and the separate views of the primary contents of the primary contents as so that he is a continue to the content of the second of the content of th for an expression that the control of the second of the se

SUGGESTIONS FOR THE FUTURE.

My own view of the brandeasting business is that the bous of it must be broadened says. Mr Gilbert Frankau, the well known novelest Personally, I should like to have big debates in the House and any really important political *perches broadcast to the general public.

With regard to the musical side of the programms. I think it should be particularly devoted to British muse. I often wonder whether the Broadmaning Company have realized the enormous potential asset they have in our national advertisers, and feet quite pertain that this side of their undertaking could be developed both to the amusement and the interest of the public.

It seems to me, too, that if public intening stations were established in various places, such as railway stations, where our modern givilization demands tedious wasts, it would please those who are detained, encourage fresh subscribers, and generally etimolate the bust

A REETLE TO SHOADCAST



from the London Station on August 0(h as 715 p.m. during the Talk on Dor Beotles by Mr. Bugh Main, B Sc. 5 Z K

THE DOT Beetie

will " broadcast"

This photograph shows the Bootie about twice as oat and size.

THE DOX BEETLE.

' Faw people have the smallest idea of the intense joy that wireless gives to people in the outlying districts of this country and the cuit curies of the Enopure - Sitt L. Mas Gard, H. J.

THE FIRST HADIO WORLD'S FAIR

Ter First Radio World's Fair is to be held in New York City from September 22nd to 28th, and is attracting the serious attention of the radio gen uses of the world, and scores of them are preparing to introduce their latest preparious at the coming exponition

There will be at least three different inchra-ments designed for the purpose of radiocasting photographs in motion. Severa in excepts, inventors will dispusy new survey also as a asset

an seoul charac ar-Half a dozan recognized wireless engineers are now bustly angaged trying to perfect systems for radioning pictures, and the managers have high hopon of being able to beoadcast the world's first programme of "Rudio Motion Pictures" on the opening might of the expoartigon.

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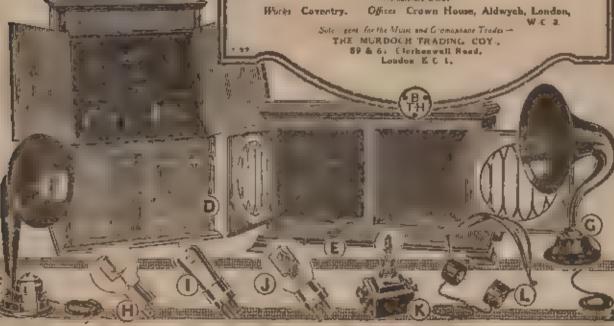
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THE CHILDREN'S CORNER.

CONDUCTED BY UNCLE CARACTACUS

A Day in the Life of an Indian Child.

Hi it is a you will be our take the week. It is also the clithen who live in far away lights ato.

It is no 9 sever in the morning, wet every hody is up or Poonds in South India. The ob. no the schoolhouse, a grey the I building with mad walls I - - -

If one he house Ayya crying a w

V was he ery

His father had refused him two annual which is the price of the book you sold him yesterday.

No wonder; there is no money anywhere in the at west I suppose I can t set my books as a Then, furning to the captive, he

When You're Late for School.

You are late any must be punished, Gopa What is your mirbber in the order of arrival

Seventeen topus" is the master's dicase. A tops at a penal exercise. You cross your arms on your breast, hold the right ear by the left hand and she left car by the right hand, thou, keeping the lower parts of the legs straight, at down stratily unto the thicks are the with them, and then stand up again the mone or stands by to see that the et as a lock

This is the 1 me honoured way of inforcing rune nality. The first comer goes free. The come had to make one lope, the third two ny e, and so on

Live actions getwingto fill exercise. Most of its work is simple. The senior and jumor boy repeat the lessons together. Sometrans the second from we with 6×2 is 12. The first armes on, 6×3 is 18. So it goes on in a tremer lans shout till the fellows lose liver. and their toronta became hours.

Some fine mental and ametic is done by the preceives baye. W thook state or paper they are soft the cost of fine and are some at one anna, four pies are head, and describing the mid of a family monte 256 co-sha was

A Hard Tackmoster

In his tweath vivie (e.g., t. as a na. 1 as to an Eng sale school in Tanjore. Copa. is new o well-grown lad, and being brainy, finds it possible to devote a great deal of his time to play. His father, however, has become a hard Inskmaster. One more ug. having to finish a match at marbles before school, Gopal was up early and busy at that great occupation, when his father appeared with a tander branch of the tumarind true, which is the Indian equivalent of the birch. The other fellows can away to the river for swimming, and the pal took his thrushus. till very little was left of the tamarind branch Gopa, sat awhile at his books, beingaming his ict, till be turned cound and saw that his father had gone away. Thereapon he threw down his books and rejoined his play nates, who ralled him on his punishment asking how many tunio erro fruits he had consumed, and what then toste was kr

The river was high and not too wabpeople were battong in the shell and part of he ford which was solinly burt. The beyon began to jump lowe into the water near them. r the parapet wall about 12 feet high. In

India the jump is not taken like a dive, but nds creek with the ions so crossed . It of chair with a westy between eavity the displaced water rises a a vertical column growing bigger and beand then faling in a shower all round, very pleasing to the eye, but wetting the hair of those near. It takes some practice to jump with safety and effect, and some clamay fellows can

never by it.

That day Gopal and had mond took its rail yourps, and made agreeable. Ar chierly gentleman intrestened to catch Gopal and make an example of him. Immed ately they dived and eleared half the river before their heads reappeared above the water. They had to and at a ford much lower down. Much time was thus lost, and when Gopal reached home to eat his breakfast before going to school, his father was exceedingly angry and ordered him to go away without food

In class Gopal was not at his best, being both bungers and resellous at heart. When lunch-. pe came, someone told sum his mother was waiting outside for lam with food, boiled redoll, mashed banana, sweet curds, and puriles

An Unlucky Game. School closed at five in the evening, having began at ten in the forenoon, with no relaxation or games between whiles. Twilight is very brief in South India, and as Gopal had to a some

tance, he generally made baste at the end of school. Having not away hear books, he and his friends would go to the common ground of the village and play games till cark. The way home was beguiled by leap-frog. Each one, as he came to the front of the company, would head, not too low, and the others would clear him,

our by one, by putting a gentle pain on his har-t pall and two or three others, being light and springy, would occasionally stiffen the game. The front boy would not bend, but stand creet, one foot well in front of the other, while his committee, placing their hands on his shoulders, would rise above his head and come down on the other side. To-day one of these mates of Gupal sud-leady sat down plump at the moment that Gopal, having taken the nee above her bend, was about to lean forward. So the poor fellow came down heavily, face foremost.

He had several bruson, some of which bled. When he got home his mother saw Gapat's tell tale face, insmed the story and gave bim a good wash, applying oil to the injured parts. They agreed that the father should not know, and long before he returned home Gopal had got into hed and fallen ascep-

Continued from the promous column?

on the states, and Grandfather Hepkins onne in. The man pushed him roughly against the table, and drappeared, banging the door behind him,

When Grandfather Hopkins recovered himself, he lit the lamp with trembling hands ; and, seeing the kitchen all upset, he know who the visitor had been. "Third, third" he cried. and burried away into the bedroom, piping in

thin voice: "My money" My money!"
But when he came back into the knichen he had a heavy attle bag in one hand and a ponch in the other; and he sat down at the table under the light of the lamp, and counted his treasure. As he did so, he began to abuckle, for all was

Then he looked up and saw Sabo.

'You rang that bell,' he saud.
Yes, I did," Sabo replied.
Good little man. " chucaled the old fellow, and parted Sabo on the back.

SABO STOPS A THIEF.

By E. W. LEWIS.



THE people who been Print Court were pear, but they used to whisper some f mes anning them. serves and say that Grandfather Hopkins had puts of new." He never seemed to spenn anything, and so his neighbours eased human old Ban Frei F

Не коеря under the matterns." said one.

Or a an old hag ander the floor said another.

Now it was quite true that Grandfather Hopkins worked very hard. He was never to happy as when he was they with a frel saw or a paint-pot, and never noticed how the time passed. He was comally late for his meals.

So Loga's father, who had been killed in the war, but who, when he was above, had always been clever with his fingers and fond of doing things, had rigged up an electric bell in the

Saho had often heard Mrs. Hopkins my, Now, Laza, lay the cloth and ring your grand Inther up, so that he'll get his soup nice and

And Lisa would press a button which was a the anir of the window frame and the left

and roug down in the shed, and Grandfuther Ropkins would torkin up the yare— Sabo laid thought what a wonterful thing that

hell was and once he had rung it just to see for binuelf how a worked, much to the assent of randistace Hopkens, who came harrying into the house half an hone too soon for his tea-

It was also true that the old man kept he money up the house, for he would not trust it out of his own keeping

One night. Mrs. Hopkins and Liza bud gone to the portures, and he old man was working in the shed by the light of a candle. Subo had been left in charge, and was sitting in his mould piece at the kitchen window

All at once he heard footsteps on the landing ottade, and a noise at if someone were trying to fit a key in the lock. The next moment the door opened affectly and a man goded in, with a cap puller, down over his eyes and a sourf multied round his neck. He closed the door softly nelymor ham

Yabo and not know who it was, but somehow he felt that he was not a rice man. He carried an electric torult, which he flashed round the room, and, seeing the supper that was min upon the table, he helped houself, and went about 1 latchen munching and flashing his by " into every pomer.

Sabo thought that he was a very rude man; and he felt that he had no business to cut up

Then he thought of the bell. He waited and I he nan's back was turned, and then, on tip toe, he pressed the button as faced as he could

A low incinents later there were footstops Continued at the foot of the sext column.)

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SUNDAY, August 3rd.

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5.6-6.0.—CHILDREN S CORNER 7.0 onwards. Programme & B. Irom London.

TUESDAY, August 5th 4 0-8.0. CHALDREN'S CORNER 7.0-7 30.—Programme S B. from London. 7 30 7 45. Mrs. 180BEL JAMIESON on "Yochting."

8.0.11.0.—Programmes S.B. from Landon. THURSDAY, August 7th, and SATURDAY, August 9th.

5.0-0.0,-CHILDRAN'S CORNER 7.0 onwards .- Programme S.B. from London

FRIDAY, August 8th. 3.30 4.30. Band of the Dunson. Palace de

Lagrana

5.0-6,0.—CHILDREN'S CORNAR, 70. WEATHER FORECAST and NEWS

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Branco m G " Re ours Op. 25 ate alp trainer

Carone Dra Wor La Lead r Form Per One being may Mada on Leaterfly Parent

Record Wenchen,

Rec I have I Me :
I Burn " (Acis and Galates ")

Aria, O Endder than Aria, O Rodder than Handel (1)

Mary M Nortage. Capraget a Lucy of the art I Salacano Lucy en V vacco M on his art I Salacano Berrenes Remart que " Kreisler

Carma Daah. "Feery Song" (* The Immortal Hour !) R d. . . I Boughton (14) "The Nightungales of Lancoln's Inn."

Herbert Olion (6) Reginald Whitehead.

O to Polermo " (" I Vespri Sictiani ")

Corms Danh. Geoop of Scottish Songs.
"Withou Bore and Wishe's Pair" "The Galtant Woaver"
"The Spining Wheel" Skillo

10.0 - WEATHER FORECAST and NEWS.

S.B. from Lordon. Top all Tack Local News.

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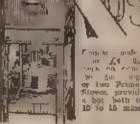
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TUNGAR RECTIFIERS

IMPORTANT NOTICE

AN INJUNCTION WITH COSTS AND DAMAGES

ON the 4th July, 1924, in the High Court of Justice, Chancery Division, Mr. Justice Tomlin, in the action of

THE BRITISH THOMSON-HOUSTON CO., LTD., (Planetiffs)

V.

THE CITY ACCUMULATOR CO., (Defendants)

granted an injunction against the said CITY ACCUMULATOR CO., restraining them from infringing THE BRITISH THOMSON-HOUSTON COMPANY'S registered Trade Mark "TUNGAR" and from passing off goods not of THE BRITISH THOMSON-HOUSTON COMPANY'S manufacture or merchandise as or for the goods of THE BRITISH THOMSON-HOUSTON CO., LTD., together with damages and costs.

Legal proceedings will be brought against Infringers whether importers, sellers, or users, to restrain them from unlawfully using the said Trade Mark "TUNGAR."

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Week Beginning Sunday, Aug. 3rd.

SUNDAY, August 3rd.

3.0-3.30 8-30-10.30 } Programmes S.B. Jeon London

MONDAY, Aug. 4th, TUESDAY, Aug. 5th, WEDNESDAY, Aug. 8th, and SATURDAY, Ang. 9th

4.0-5.0.—Gastlard and lus Orchestra, releyed from the Seam Picture House 5 30 8 15. CHILDREN'S CORNER 7.6 onwards.-Programme S B. from London,

TRURSDAY, August 7th.

CO 5.0.—Station Pranciorty Trio.

5.30-0.15.—CTILLDR, N.S. COSNER 0 camerits.--Programme S B. from Lando.

FRIDAY, August 8th

4.0-5.0.—Guillard and has Orchestra, relayed from the Seasa Picture House. 5.1-6.1. CHILDREN'S CLONER 7.0. WHATHER FORECAST and NEWS 8.0. from London WITH E. POWLL, JONES, S.B. from

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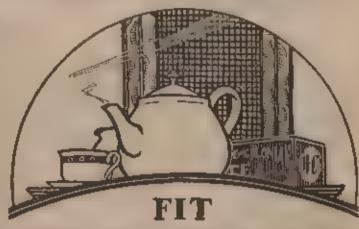
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TUESDAY, August 5tb, to THURSDAY, 7th, and SATURDAY, 9tb. 3.30-4.30.—Savoy Picture House Orchestra Muscal Director, Albert Hosis.

5.30-6.30.—CHILDREN'S CORNER 7.0 cuwards.—Programme S.B. from Landon

FRIDAY, August 5th.

3.30 4.30. Savey Ficture House Orchestra
Musical Director, About House.

5.30 6.30 - CHILDREN'S CORNER 76 WEATHER FORFCAST and NEWS SR grant adm W. P. S. I. WELL, JONES. S.B. Com.

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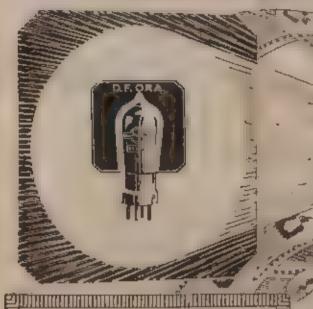
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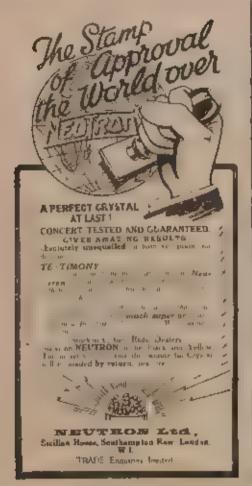
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3 30 4.30. Programme S.B. from Regardhous b 36 6.30. CHILDICEN B CORNER 7 6 onwards. Programme S.B. Jeon Land a

WEDNESDAY, August 6th. 3.30 J.30. Programme S.B. from Mar 5 to 6 30 CHILDREN WILLIAM · onwards.- Programme S B from London

FRIDAY, August 8th from London

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1 10 + 30

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Week Beginning Sunday, August 3rd.

SUNDAY, August 3rd. F 30 10 30. Programmes E.B. on I a a

MONDAY, August 4th, to THURSDAY, August 7th, and SATURDAY, August 9th.
5.0 CO. CHILDREN'S CORNER

FRIDAY, August Rh.
50 no. Chaldhen S. CORNER
1. April 1. P.C. 20 AS and NEWS
S. B. from an de
V. F. P. Ow. L. IONES S. R. gran.
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1. April 1. P.C.
Linear N. as

Local Programme.

THE PROSTRIK STRING THE FRONTICK STRING, QUARTETTE
PLRCY FRONTICK (list Violan).
REGINALD GODLEY 2nd Violan).
AND THE NON Violan of PARK CRAWSHAW (Recitals TORGE JENFLESON), Astompanist).
String Quartitio in G, Op. 18, No. 4.
Beethore

A jegen ; Adagao Cantolnie; Meuro ; Alieuro Melto Quaes Presto-ty Ferguson

Blue Street treet tree Clearenge F T sheet 4)

Tricker Love 1 Ke countries (1)

A Freet of Larteria Book 4)

Prop. Freet ck

Byum to Le S a.

Haska Kosakse ar K. so
Savorie Dance Theme in t. M. o.

Dronk Kreisler

Bergin, The Cremin man of Sain McGee Str. Quarters, K5 James

Boat Sorig " Stanford (1) Damy Hoy " Old Iresh &cr (1) Where Go the Beats " Young Night Thoughts" G. Peel Q illor 11,

La e · F nos nos Arthur Raynes a tegas Smith Sac 8

No mess to form to see the form of the seed of the see 1 Berodin

Recatal, Wackford Squeeza Opena School. 10.0.—WEATHER FOREX SSP and NIWS
SR from London
Topical Talk
Local News

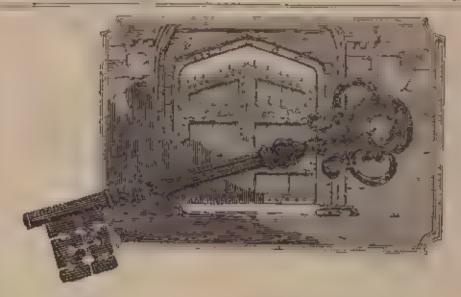
10.30 Close down

Announcers G. P. Fox

A natured against a statement steen univertes the name of its publisher. A key list of publishers will be found on gaps 237

ALTERATIONS TO PROGRAMMES, Etc.

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



The Key to the other

THE Cossor Valve, with its hood-shaped Grid and Anode and curved mament is a veritable key to the ether

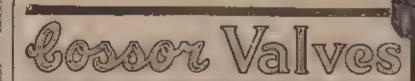
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Dear Sun.

read what a user says to-day

120 24/6 4,000

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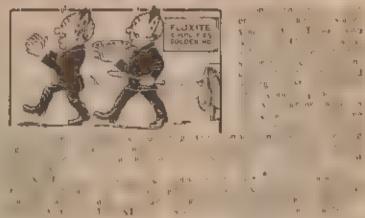
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- SELECTOR This sweeth couplins over amores enterference, and will be found extremely efficient in operation. Its use it easily understood. The Selection is a special feature of the instrument
- 3. CONDENSERS: The Ethophone V as tuned by adjusting two condensers and reaction coil. The primary condenser is marked, whilst on its right can be seen the anode condenser
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- 5. TELEPHONE PLUGS: Telephones are connected to the Ethophone V by snears of non-reversible ebounte plugs, to which ordinary telephone leads can be attached in the left-hand sockets, the telephones come after the first two valves; in the right-hand sockets, they come after three or four valves as desired. No terminals appear on the panel material, they are all on the back of the cabinet.
- 6. SWITCH: In the centre postpon, all batteries are disconnected. In the apper position (2000 Fawer) the radio-frequency and detector valve and one power valve (sudio-frequency amplifier) are in operation. In the bottom position ("Fight Power"), the radio-frequency detector and both power valves function
- RHEOSTAT 1 This is used only when operating from dry botteries.
- 8. THE ETBOVOX. The would a perfected and speaker removed for sound and per entrone uses with the Frhoglande V the ashorms regulating it gives best feasily with the Ethophone V. An 120-ohm resistance loud speaker in used with the new Ethophone V.

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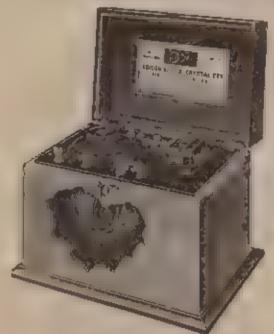
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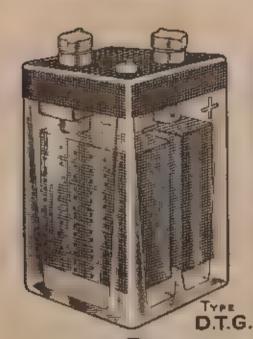
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larly helpful Articles for you here. One describes how Valves may be salected for their actual job, and how their peculiarities may be actually drawn up in a diagram (called a characteristic curve) for all to see. Another article gives full instructions for building an efficient One-Valve Set at a very

To describe all the Articles would take too much space it is sufficient to state that they have been selected with very great care specially to present a holiday appeal.

Is view of the heavy demend (last month's issue was quite sold out within 10 days) it is advisable to get your copy to-day.

Read These Special Articles:

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My han seed for more let \$P_{ij} \ MIFE.

showed or locally value of the local to the delivery long distance prime. He said to the state to the local to the state to the state to the state will show thin day to or different executions of the state to the matter to the state of the state of

How to Make a Single-Valve Reflex Set.

Remote Control of Wireless Sets.

By C. P. Readerl. 9 Sc.

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August Number out to-day-

How I Design my Wireless Sets.

As a former Editor of Western House that we then the month of the control of th

A Beginner's Crystal Set.

the many of the man of

And many other Articles including :-

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