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WORLD-RADIO

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(Revised.)

Wavelength : 335 metres.

Frequency : 895 kc. Power : 0.5 kw.

Approximate Distance from London : 585 miles.

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WORLD-RADIO

Vol. 6. No. 141.

FRIDAY, APRIL 6, 1928.

Two Pence.

"The Dürer Year" Special Broadcasts

MANY thousands of visitors, art lovers, and sightseers will doubtless be attracted this year to Nürnberg, where the four-hundredth anniversary of the death of Albrecht Dürer will be celebrated by a programme of events arranged under the heading of "The Dürer Year." On April 6, the date of Dürer's death, there will be a ceremony at the Johannis Cemetery, where he is buried.



Albrecht Dürer.

On Monday, April 9, the Bavarian stations will relay a special musical *Feierstunde* from the St. Jakob's Kirche in Nürnberg, and on the following day the complete Dürer memorial ceremony in the large hall of the Town Hall will be broadcast. This will be followed by a torchlight procession, organised by artists from all parts of Germany, and a demonstration before the statue of the great painter, which, weather permitting, will also be relayed (8.50 to 9.10 p.m.). On April 11, an important Exhibition of Dürer's works will be opened, and in the evening a festival performance of the *Meistersinger von Nürnberg* given at the Municipal Theatre. The Dürer Exhibition will remain open until September 30, and will include, until the middle of June, a number of works lent by foreign countries. The works of Dürer's teachers and pupils will be also represented. Other exhibitions, including one of Modern German Art, and others of Documents and Archives, will be held at different times during the Festival, and there will be many festival performances at the theatre and popular entertainments and pageants in the quaint old town. A great number of special events and courses of lectures have also been arranged. The opening of both the Dürer Exhibition

on April 11 (10.15 a.m.) and the German Contemporary Art Exhibition on April 12 (10 a.m.) will be broadcast.

Born in the quaint old town of Nürnberg in 1471 and identified with it throughout his life, Albrecht Dürer is famous as the most illustrious representative of the Nürnberg school of painting. His work, however, has a wider significance. He was the greatest German



The Market-Place, Nürnberg.

artist of the Middle Ages, and one of the outstanding artists of all times. Reflected in his work is the whole spirit of the age in which he lived, a period when the Middle Ages were passing; the culture of the Renaissance was permeating his nation, and the Reformation was

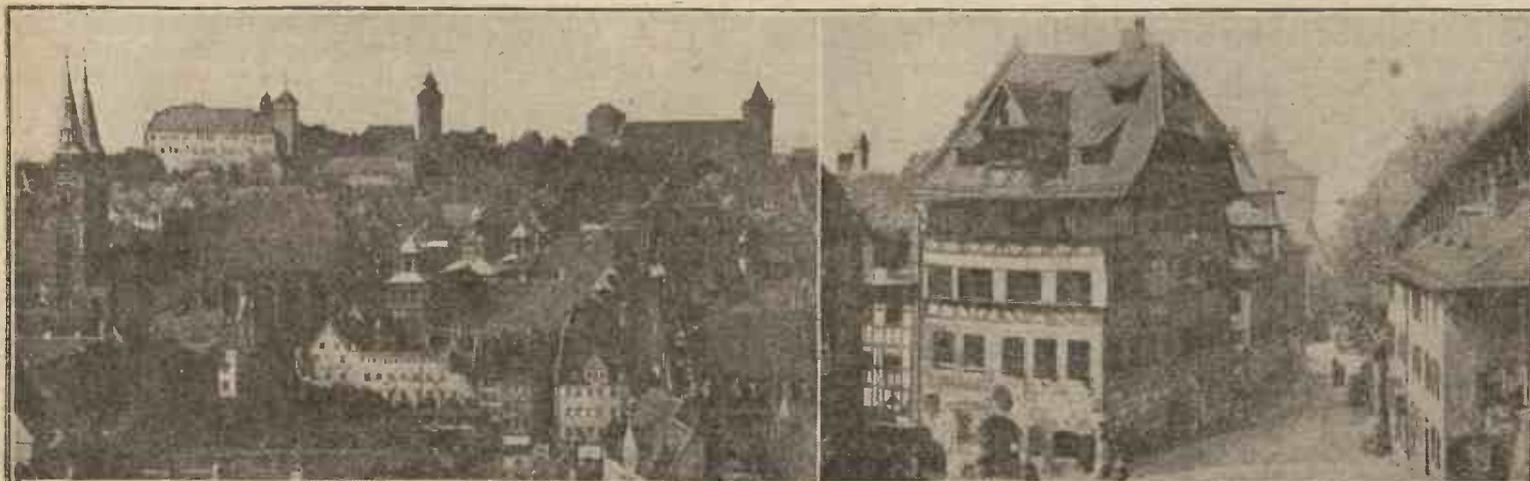
awakening a new spirit throughout the country.

Early in life his father, a Hungarian goldsmith, instructed Dürer in his own craft, but the boy's inclinations being rather in the direction of painting, he was apprenticed at fifteen and a-half to the principal painter of the town, Michael Wolgemut. His apprenticeship at an end, he travelled in various parts of Germany, settled for a time in Basle to study the art of engraving, returning in 1494 to Nürnberg, where, within a few weeks, he married the daughter of a merchant of the city. Before the end of the year, however, he had set out on further travels, this time in Italy.

Just at this time much attention was being given to the art of printing, and a demand had grown up for designs for wood-cuts and engravings to illustrate the printed text. Dürer's training as craftsman and artist fitted him specially for the work, and it is this form that many of his most famous works take. His series of sixteen designs for the Apocalypse, the "Little Passion" and the "Great Passion" series, and his set of designs illustrating the life of the Virgin are all well known. Of his paintings the finest are considered to be the "Adoration of the Trinity by all the Saints," now at the Imperial Gallery at Vienna, "Adam and Eve," the "Virgin with the Iris," and the "Massacre of the Ten Thousand Martyrs of Nicomedia." His works in copper engraving, "The Knight and Death," the "Melancholia," and the "St. Jerome in his Study," are his masterpieces.

Dürer's life was singularly free from the vicissitudes that so often befall an artist. His time was divided between his travels, during which he met and made friends with other great artists of his time, among them Raphael, and periods of intensive work in his native town, where he was regarded as an honoured citizen.

Dürer and his work will no doubt provide the subject for numbers of broadcast talks in Germany during the coming months. Langenberg is already giving a series entitled "The Personality and Work of Albrecht Dürer." Hamburg on Wednesday, at 7 p.m., will broadcast an opera called *Madonna am Wiesenzaun* (the name of a Dürer picture), the scene of which is Nürnberg in the year 1520, and the characters Dürer and his relations and friends.



Nürnberg: A General View.

Photos by Courtesy of German Railways Information Bureau.
Dürer's Birthplace.

Viâ Ether

DID any of you pick up the Berlin transmission at about 10 p.m. on Saturday, March 31, either from that station direct or from one of the other German studios standing by to take the April Ball programme given in the capital? If so, you must have wondered what had actually happened. I admit that for the first few minutes I was completely taken in by an announcement made to the effect that by arrangement with the Lufthansa Air Line, Berlin was about to give listeners a relay of the departure of the two German aviators from the Baldonnell Aerodrome in North West Ireland. I listened with interest to the running commentary, to the noise made by the crowds surrounding the all-metal plane, and to the vivid and breathless description given by the commentator. But one small incident occurring in the early part of the transmission gave the show away as a very clever fake. I recognised distinctly a gramophone record of community singing in the Albert Hall—a record so frequently used by German studios to illustrate an enthusiastic crowd of English spectators. "Tipperary," "The Long, Long Trail," and "Land of Hope and Glory," were all there, and one could not fail to discern that echo effect only met with in big halls and never associated with outdoor broadcasts. No doubt whatever, Berlin, by some hours, had anticipated April 1, and further references to the intrepid aviators, Captain Koehl and Baron von Huenefeld, with even a cheery farewell from the latter in both German and English, failed to carry conviction. To enhance the dramatic effect, the transmission was cut short as the aeroplane engine started up with a roar preparatory to the take-off; a few seconds elapsed, followed by the Berlin announcer's apology for the breakdown, with the explanation that such difficulties are necessarily experienced with landline relays in which Germany, England, and Ireland act in co-operation. "Ring up the curtain for the April Ball; our first number will be a foxtrot."

Unfortunately, on that evening, circumstances prevented a tour of the German transmitters at a later hour—namely, towards midnight—but I have no doubt that many readers will have heard weird broadcasts from some of these studios. April 1, in Germany, although perhaps not exactly a national holiday, is widely celebrated. Almost every newspaper "penny plain or twopence coloured," revels in absurdities, and although the date is one which recurs annually (of course it does!) it would appear that quite a number of readers are regularly caught every twelve months.

Parsifal, Richard Wagner's last opera, a Festival drama based on Wolfram von Eschenbach's poem on the legend of the Holy Grail, figures largely this week in the broadcasts from Continental stations. From Stockholm to-night (April 6) you are to hear Act I. of this opera as performed at the Royal Opera House. *Parsifal*, a "Bühnenweinfestspiel," or consecrational stage festival play, was first produced at the Festspielhaus, Bayreuth, on July 28, 1882. When Wagner died, his will revealed a provision that the performance of this, his last work, should be reserved exclusively to his theatre until 1913. Although the work was performed without action or costumes

in other cities, his wish was respected until 1903, when on December 24, notwithstanding the opposition of the Wagner family, it was performed at the Metropolitan Opera House, New York. Owing to the fact that it was denounced by many American prelates as sacrilegious in its treatment of the Eucharistic sacrifice—the Holy Grail being the chalice which, according to tradition, caught our Saviour's blood when He was lifted from the Cross—the performance secured considerable publicity. For the production, the Metropolitan Opera House had engaged the services of Felix Mottl, for many years associated with the Bayreuth Theatre, but to escape the ire of Wagner's widow, this famous conductor passed over his *bâton* to Alfred Hertz, on the eve of the New York first night. *Parsifal* is essentially an Easter opera, and in Germany and Austria shares, with Gounod's *Faust*, the honours of an annual revival at this period of the year.

To-day the Bavarian stations, in view of the religious holiday, will not be "on the air;" the Austrian transmitters will also close down for the day, and Madrid (EAJ7) will limit its transmissions to a relay at midday of a service from the St. José Parish Church in the Spanish capital. Generally speaking, all programmes are to be of a sacred character; Berlin at 6.30 p.m. broadcasts from the Grosses Schauspielhaus, Verdi's *Requiem*, with augmented orchestra and choir under the direction of Bruno Kittel. The soloists will be Vera Schwarz, Maria Olczewska, Cornelius Bronsgeest, and Jacques Urlus. Seven choirs are taking part in this production, consisting of some 1,500 singers and musicians. From Prague at 7 p.m. we are to hear Pergolesi's *Stabat Mater*, and Frankfurt at 7 p.m. promises Bach's *Passion according to St. John*, relayed.

Nightly, as a preliminary to its transmissions, you will have heard a peal of bells broadcast by Cologne, Langenberg, or Münster—as the case may be—and no doubt many of you have been misled into believing that they were an outside broadcast. They are from the studio, but—and this is a big but—to-morrow evening (Saturday, April 7) from 5.30 to 6 p.m. you should pick up a Carillon from the Cologne Cathedral, including, this time, the deep boom of the Deutsche Glocke am Rhein, the Rhineland Big Ben. With the bell of the Kaiser Wilhelm Memorial Church at Berlin, it shares the honour of being the largest in Germany.

To-morrow, at 7 p.m. Vienna will transmit Wilhelm Kienzl's two-act dramatic opera *The Evangelist*. The book was also written by the composer, and based on a true story recorded by a Vienna police official; the work was first produced at Berlin in 1895. From an Austrian report, I understand that the new super-power transmitter is now ready for tests; it is to be hoped that it may take this opportunity to broadcast. At Madrid (EAJ7) at 10.15 p.m. we find a light entertainment in the shape of one of Gilbert's operettas: *The Cinema Queen*, and from Basle (to be relayed by Zürich) at 7.45 a vocal and instrumental concert which includes a song recital by Miss Violet Brown (soprano) of London.

Sunday (April 8) brings us at 6 p.m. from the National Theatre at Prague a performance of Smetana's *Bartered Bride*—also taken by the other Czechoslovak studios—the Bohemian comedy opera which figures so frequently in their programmes. Königsberg at 6.30 p.m. offers us from the East Prussian Theatre in that city, Puccini's *Tosca*, and Leipzig on that date will also relay an operatic performance from the New Theatre, possibly Gounod's *Faust*. To Copenhagen it will be worth our while to turn at 7 p.m., for this studio is taking from the Cathedral a gala concert in which the Royal Danish Opera House Chorus is taking part. At 7.30 p.m. an excellent entertainment will also be found at Frankfurt, which on that evening features its local "star" John Glaser, a well-known tenor.

Most sporting events are now relayed to the German transmitters, and none is so popular as the horse race. Berlin on Easter Monday will instal microphones at Karlshorst, where the Spring Steeplechases are run. The usual running commentary will be given, and the intervals will be filled in by musical items contributed by the Racecourse Orchestra. The first race to be broadcast is timed for 2 p.m. Radio-Paris, for its midday transmission presents a novelty—namely, *The Venetian Troubadours*—in lieu of its more conventional orchestra. On the same evening we find in the programmes performances of three light operettas: at 6 p.m. from Brünn, *Der Orlov* (Granichstaedten), which was produced in London some eighteen months ago under the title of *Hearts and Diamonds* (this entertainment from the National Theatre will also be relayed to Prague); Leipzig at 6.30 p.m. will transmit *Rund um die Liebe*, a light entertainment from the pen of Oscar Straus; and Stockholm at 7.15 p.m. stages in its studio *Der Zigeuner-primas*, an operetta by Kalman—not to be confused with *The Circus Princess* by the same composer.

More gypsy melodies will be heard on Wednesday, April 11, when Stuttgart at 7 p.m. transmits Lehár's three-act operetta *Zigeunerliebe*; you will also pick it up from Frankfurt, to which it is being relayed. Finally, Thursday, April 12, should give us a wealth of broadcast entertainments, of which the choice will prove a difficult one. Vienna at 7 p.m. will see in its new studio Richard Mayr and Elizabeth Schumann, both of the Opera House, for a transmission of Pergolesi's *opera buffa*, *La Serva Padrona* (The Maid as Mistress). From Cassel at 7.15 p.m. Frankfurt will take *Holofernes*, a three-act opera by Reznicek. It is a work of comparatively recent date, having been produced in Berlin as late as 1923.

Munich at 6.30 p.m. turns to its National Theatre for a performance of Clemens von Franckenstein's three-act opera *Li-tai-Pe*. I may be wrong—I am open to correction—but I fancy that this work is also known as *Des Kaisers Dichter* (The Emperor's Poet) which was first presented at Hamburg in 1920. *Li-tai-Pe* is China's Omar Khayyam. For this score Franckenstein has composed ultra-modern music.

JAY COÖTE.

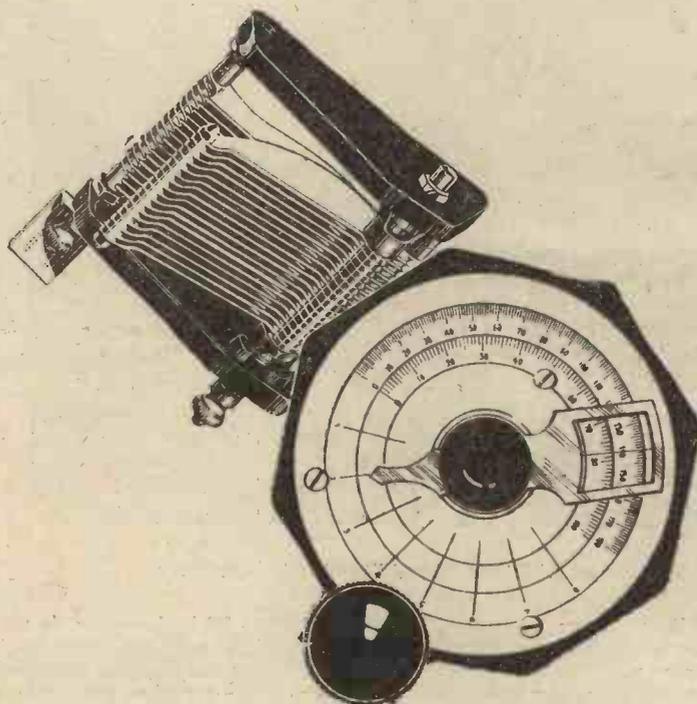
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Holidays Abroad: Ways and Means

1.—Spain

By GERALD BRENNAN*

WHEN people begin to talk of a holiday on the Continent, one of the first places they mention is Spain. Every evening at 8.40 and every morning at 10.0 an express train leaves Paris for Madrid, which it reaches some twenty-four hours later. Again, every morning at 10.0 an express train leaves Madrid for the South. You get to Cordoba at seven the same evening and to Seville and Granada at about ten. That is to say, starting from London by rail, you can just get

You will require a Foreign Office passport, but no visa. Tourists are not required to register with the police.

Now comes the more important question of what you will find there.

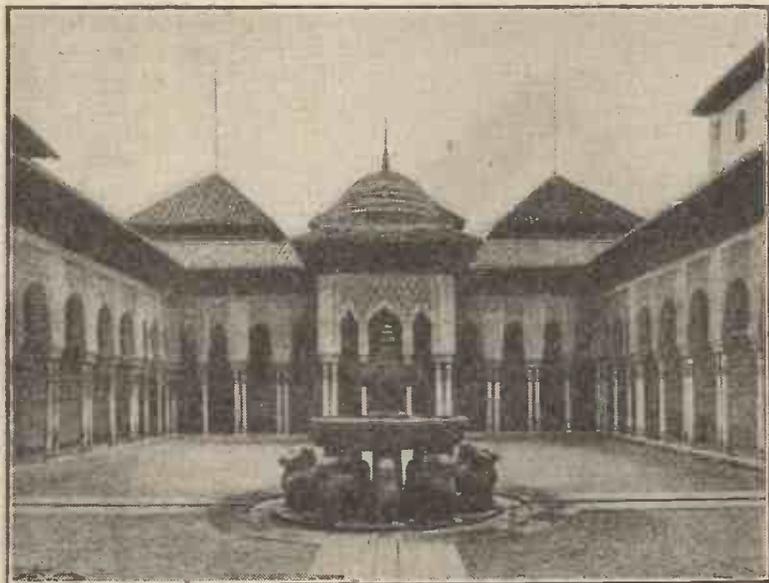
If you are sufficiently rich you will probably go to one of the palace hotels at Granada, Malaga, or Algeciras, or to other first-class hotels at Seville and Ronda, where I think you are quite safe to find nothing offensively Spanish and to be as comfortable as in any other large hotel on the Continent.

But that is not the case with the second-class hotels. Here at once you will have to start making sacrifices. No marmalade will appear for breakfast—though oranges may be growing in the hotel-garden; there will be no lounge or a drawing-room to sit in; often no bath-room, and if your digestion is at all vulnerable, you will have to scan the menu extremely carefully. Possibly, too, you will be asked to lunch as early as 12.0 or 12.30 and to go without your dinner until half past eight. And at Madrid and Seville, where people go to bed later than in any other part of the world, there may easily be a noise of stamping and coughing until almost dawn.

This, however, is the worst that can be said, and only the most incorrigible lovers of comfort or the feeblest of digestions will be put off by it—for the beds are comfortable and clean, the sanitary arrangements (except perhaps in the South-east) are adequate, there are always excellent private baths to be had in the town, and the food is good, though the Northern digestion often requires to be acclimatised to it.

There is then a yet smaller and entirely Spanish class of hotel called *Fondas*. Every little town of six thousand inhabitants has one, and to people who want to see the most beautiful and uncommon things in Spain I recommend them strongly. In nine out of ten of these places the beds are clean and the food is excellent.

It only remains to consider now where you will go. If you have no more than a fortnight at your disposal I suggest that you visit Cordoba and Granada, and then either go west to Seville, Cadiz and Gibraltar, or else return home up the very beautiful and much less visited eastern coast. If you have three clear weeks South of Madrid, I recommend you combining both. First Cordoba. Cordoba is the Andalusian counterpart of Toledo, a large town that has scarcely altered since the sixteenth century, set on a bare plain



[The Spanish Travel Bureau.]

The Court of Lions, the Alhambra, Granada.

to Seville in 48 hours, though if you want to do the journey in some comfort, you'll take a day or two longer.

If you dislike sleeping in trains, I advise you to take the eight o'clock morning train from Paris and sleep at the frontier town of Irun, where there is a very decent hotel next to the railway station. Then take the half-past nine train next morning to Madrid.

The first class single fare from London to Seville is £13 and the second class £10. The return fares are £20 and £14. Other ways of returning are by sea, from Lisbon or Gibraltar. The fares from Gibraltar to London by the best steamship lines are £15 first class and £10 second. Other lines are considerably cheaper.

First class in Spain is exactly equivalent to first class in England, and their second class is more comfortable than our third. The Spanish third class carriages have wooden seats and on slow trains are likely to be full of peasants returning from market, who put their poultry under their legs. But as certain express trains carry no second class passengers, I had better say, for the benefit of those who want to economize, that you can travel on them third class without any other discomfort than a wooden seat. But be at the terminus an hour before the time for starting so as to secure a place, and later on take refuge in the refreshment car.

The eating arrangements, I may say, are admirable. There are then various arrangements about luggage and tickets. In one of the main streets of every town in Spain you will find a Central Railway Office, where you may take your ticket, reserve your seat (not third class) and register your luggage. You can do this without any fear of its being lost or cut open. As to reserving your seats, you should do so whenever you wish to travel by any fast train.

* In a talk broadcast from London, through Daventry, on April 3.

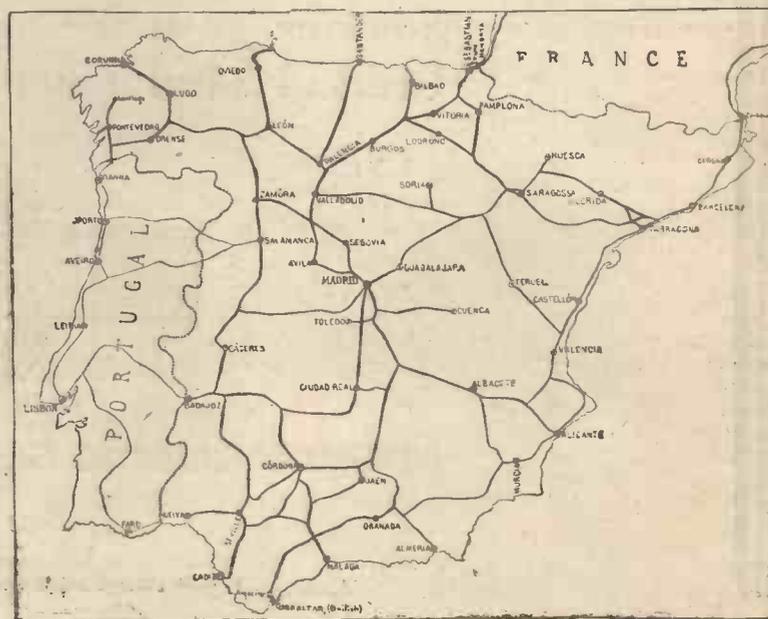
beside a yellow treeless river. It contains a famous and beautiful Moorish mosque and streets, courtyards and houses that are very charming.

Cordoba is a place to spend a day in, but Seville can only be appreciated by a long visit. The immense Gothic cathedral and the Moorish palace, which tourists are dragooned into visiting, are the least interesting things there. For Seville is a modern capital, extraordinarily gay and beautiful, with a life of its own, quite unlike anything to be found anywhere else. From Seville go on to Cadiz, a small half-deserted town built on a spit of land between its lagoons and the open Atlantic. Then if you do not cross to Tangier, hire a car or take the motor bus along the Straits of Gibraltar, to Tarifa or Algeciras. Algeciras is a squalid village clustering round a palace hotel; Ronda is most picturesque with its deep gorges and crowds of strangely dressed English people. Malaga is uninteresting, but this little knot of mountains is fertile and beautiful, and I recommend hiring cars or taking motor-buses, or even walking through it. The Corniche road from Malaga to Granada, skirting the coast as far as Motril, is especially lovely.

Granada is not a real place at all, but the result of a dream. After reading a little Persian poetry in a Victorian translation, some elderly and romantic tourist closed his eyes and dreamed it.

If you now want to see the most striking and magnificent country in Spain, you will return from Granada up the south-east coast to Valencia, now and then hiring cars, if you can afford it—if not, trusting yourself to the useful, but uncomfortable motor-bus. The first stage is to Almeria. You can go by rail, but if you take a car or bus round the Sierra Nevada by Orgina, Adra and Berja, you will see some of the most lovely and varied scenery that can be imagined. Beyond Almeria you enter a desert so arid that you can hardly believe you are not in Africa. To see this country, hire a car or take the bus to Huerca-Overa, where you join the railway, and travel by it to Murcia. From Murcia to Alicante there is one long oasis of palm-trees, with two small towns in it, Orihuela and Elche, which you'd do well to visit. Carthagenia, a little off the road, is most interesting. From Alicante, two railways lead on to Valencia, but take the longer one that follows the coast and you will pass through, near Denia and Gandia, some beautiful country of dense orange groves at the foot of grey, rocky hills.

The whole of this journey from Granada to Valencia will take you, without hurrying, four days—though you will enjoy it more if you take a little longer. But don't attempt it after the first week in June or you will find the heat excessive.



"Crystal Reception in the Swiss Alps."

By YODELLER.

IN the early part of last year I mentioned that a crystal-set was quite useless in Switzerland, but now this statement must be retracted.

Some little while ago I read, in a local journal, a list of stations claimed to have been logged by a crystal user in Lausanne. This list contained some twenty stations, amongst them being Daventry 5XX and 2LO, and although these amazing results were vouched for by the local Radio Society, I must candidly admit that I read it with a very unbelieving eye.

Recently, however, a letter in *World-Radio* described the writer's reception with a humble crystal apparatus, thus awakening my own interest in the subject, and I decided to see what could be done in that line out here, although, it is true, no real worth-while results were expected.

Years ago, when coming to Switzerland, I stuffed my little crystal-set into one of the trunks, and promptly forgot it. Then, after reading the letter mentioned above, I dived deep down into the cupboard-of-things-that-have-been-forgotten, and unearthed this ancient treasure. Taking it to an open window I blew a huge cloud of dust from it, and critically regarded my one-time handiwork.

It was made in the early days of broadcasting, on the wire-wound coil, slider and bar principle, at a time when valve-set owners were regarded as electrical engineers of the first magnitude.

I always remember the great pride with which this wonderful masterpiece of radio construction was viewed when completed; and the thrill which came when the local station was first heard through the medium of my own handiwork has never again been equalled, even in these blasé "multi-valve" days. The set was, however, minus both crystal and "cat's whisker," and the next thing to be done was to procure these two commodities at the local T.S.F. shop. The French for crystal was already known to me, and on asking the gentleman behind the counter for a "galène" he looked at me pityingly and informed me that, alas! he had many, all dead stock, but it was perfectly useless buying one as "reception à galène" was of the things impossible in these mountains. Still, as I persisted, he supplied my wants with a despairing shrug of the shoulders, and I could imagine him retiring to the rear of the shop to tell his wife of the idiosyncrasies of another of those mad "Anglais."

I may add that I had already decided to make my own "cat's whisker," for I had a premonition that I should be regarded as a raving lunatic had I enquired for "une moustache d'une chat."

Anyhow, last night my first duty was to detach the aerial and earth-wires from my four-valver, and to replace them in the now complete crystal set, albeit dubiously, thinking that I was a fool for my pains, the most I hoped for being a faint whisper from the local station, some twenty miles distant. Then, adjusting the 'phones, I let the portion of our domestic pet's beard fall gently on the "galène" and carelessly moved the slider along the brass bar with the tip of one finger.

Lo and behold! music came softly to my ears. It was Lausanne, at quite good strength. Then, still more dubiously, the slider was slipped lower down the coil, and, to my utter amazement, I found I had stumbled on Stuttgart, but only a faint reception. Then, in turn, at varying strengths, came Rome, Langenberg, Frankfurt, and Vienna, this despite towering mountains surrounding me on all sides. These startling results so pleased me that I went to the trouble of connecting the fourth valve from my other set, with a power valve in the socket, to the crystal apparatus, and at once all these stations sprang up to splendid strength. Then came more stations to my ears, Bruenn, Toulouse, Breslau, and by adding a long wave coil, Radio-Paris and Königswusterhausen, all at good volume in the earphones.

I next spent some time searching for Daventry

5XX, and eventually captured a faint whisper in the distance, which, after some trouble, was definitely identified as the English transmitter.

The station which came in strongest of all, however, was Rome. This was somewhat difficult to understand, as it is some five hundred miles distant and has a power of only 3 kw. Also, between my aerial and the Italian studio are the Dent du Midi mountains, mile upon mile of Alpine peaks, and the huge summit of Mont Blanc, so that it is extremely difficult to arrive at the reason for this phenomenon.

My net results for the evening were twelve stations easily identified, and four others which gave no call-sign and thus have to be omitted from the night's log. Here, then, is an alternative method of listening should the valve-set fail me at any time, and I shall no longer scorn the humble little crystal-set, but put it away carefully against an emergency, in the cupboard-of-things-to-be-remembered.

Radio Education in Spain

A pamphlet written by the Secretary (an ex-schoolmaster) of Radio Barcelona dilates upon the objects and ideals of educational broadcasting and emphasises the advantages as follows:—

Its universality, which permits of its being enjoyed simultaneously by an incalculable number of students; its adaptability and the variety of material that it can offer; its economy, seeing that a simple crystal set will often suffice, and that even in schools, where a more expensive set is required, the cost of such supplementary lessons is very slight in view of the number of students able to benefit. Lastly, its convenience from the point of view of accessibility whether in the class room or the home.

The author proceeds to treat ably of instruction and education as such, and outlines what broadcasting can do as an agent in moral and mental development. He next deals with recreative pursuits, and then gives a model curriculum of subjects to be broadcast, with a table of hours of work, striking a healthy balance between artistic, recreative and instructional interests. He closes with the assertion that, in his opinion, educational lectures to children should not exceed ten minutes' duration.

"Good Night" and/or "Sleep Well"

(From our Correspondent at The Hague.)

The announcer at Hilversum has been asked by some of his listeners why he always gives a double greeting on closing down: "Goede Nacht en Welterusten" (Good Night and Sleep—or Rest—Well), and to this he has given an interesting reply in the current issue of the *Radio Bode*. There is a great difference, he says, between these two wishes. "Welterusten" is intended for those who go to sleep; all who can and will close their eyes through the coming night may take this wish as intended for them. "But have you ever thought of the fact that at the moment when the wireless broadcast ends its daily task, bed does not await all listeners? There are numberless listeners who after the evening greeting go to a night of responsibility, labour, watchfulness or care."

"In all these cases Welterusten is out of place. Therefore at the close comes the greeting to all 'Good night?' For them there may be no rest. The wish of the announcer is that the coming night may be a good night; a night in which a duty well done shall hold danger at a distance, in which labour may fulfil its task; a night in which from the sickbed care and fear may retire and hope come near."



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Broadcasting and Languages FRENCH.

Hints to Students of French.

On translating English compound verbs.

In English, prepositions or adverbs are freely used to modify the sense of verbs. For instance, if to the verb "to go" (*aller*), we add the particle "up" (*en haut*), or "down" (*en bas*), we get the compound verbs "to go up" (*monter*), and "to go down" (*descendre*). Occasionally similar methods are used in French, e.g., *s'en aller* (to go away), *emmener* (to lead away), etc.

But, as you will have observed, from the two examples given, *monter* and *descendre*, a single French verb contains in itself, as a rule, the full meaning of the English verb plus a preposition. It is not always an easy task for the translator to find a single French verb capable of expressing exactly a compound English verb.

If we notice that it is generally the English particle (preposition or adverb) which contains the main idea, we shall experience less difficulty in finding the correct French verb that will translate the English compound verb. For instance: "to bring back" will be translated by *ramener*, "to pass away" by *disparaître*, and "to come forth" by *sortir*, examples from which it is easy to see that it is "back" (*en arrière*) which gives us *ramener*, "away" (*au loin*) which gives us *disparaître*, and "forth" (*en avant*, *hors de*) which gives us the verb *sortir*.

Let us examine a few more cases:

Along = *le long de*; therefore: to creep along = *se glisser*; to glide along = *filer*; to hurry along = *s'avancer à la hâte*; to plod along = *aller péniblement à pied*; to plunge along = *s'enfoncer*; etc.

Away = *au loin*; therefore: to bear away = *emporter*; to creep away = *se traîner*; to melt away = *se fondre*; to throw away = *rejeter*; to turn away = *se détourner*; etc.

Back = *en arrière*; it gives the idea of opposite direction, or else it completes the sense of the verb; therefore: to come back = *revenir*; to look back = *regarder en arrière*; to echo back = *renvoyer par l'écho*; etc.

Down = *en bas*; therefore: to beat down = *abattre*, *coucher*; to drag down = *entraîner*; to fall down = *tomber*; to hurl down = *précipiter*; to put down = *déposer*; to sit down = *s'asseoir*; to pour down = *verser*, *répandre*; etc.

In = *dans*; therefore: to go in = *pénétrer*; to gather in = *rentrer*; to creep in = *se glisser*; etc.

On = *en avant*; therefore: to go on = *continuer*; to glide on = *côuler*, *se passer*; to urge on = *presser*, *exciter*; etc.

Out = *dehors*; therefore: to bring out = *faire sortir*; to speak out = *parler franchement*; to stride out = *sortir à grands pas*; to struggle out = *sortir avec peine*; etc.

Up = *en haut*; therefore: to grow up = *grandir*; to hold up = *soutenir*; to lift up = *élever*; to pick up = *relever*, *ramasser*; to start up = *tressaillir*; etc.

In many cases the English particle does not really alter the meaning of the verb, it only completes it. Compare for instance: "to leap" (*sauter*) and "to leap up" (*sauter en l'air*), "to sink" (*s'enfoncer*), and "to sink down." The latter compound verb cannot be translated into French unless we resort to some special turn of phrase. In a well-known translation of Longfellow's *Evangeline* the sentence, "The sun sank down to his rest," is rendered by "Le soleil couchant descendit à son repos." Like the English sentence this French sentence contains twice the idea of *descent*, it is therefore a far better translation than "Le soleil descendit à son repos."

It often happens that one of the two ideas contained in the English compound verb cannot be neatly translated into French. Take for instance the following: "The gardener was cutting down the branches." There is no French verb which gives us both the idea of *couper* (to cut) and the idea of *abattre* (down). We might of course say "Le jardinier abattait les branches en les coupant." But such a translation would be somewhat long and certainly not elegant. Here we must be satisfied with an approximation; part of the English meaning, e.g., that contained in the word "down" must be neglected, and we shall translate the main idea only which is contained in the verb "to cut." We shall simply say "Le jardinier coupait les branches."

Similarly, to sail on = *naviguer*; to wander on = *errer*; to wrap up = *envelopper*; etc.

In all such cases, part of the English meaning is lost; we cannot, neatly at least, translate the idea embodied in the English particle. Such things are the bugbear of the translator, but they are unavoidable.

If, however, by a neat turn of the phrase we could express the meaning of both the English verb plus the particle, we must not hesitate to do so. For instance, "Up from the trenches man after man appeared," could be elegantly rendered by "Du fond des tranchées les hommes apparaissaient l'un après l'autre."

Very often the best translation of an English compound verb is arrived at by transposition; thus, "She ran out of the room" = "Elle sortit de la chambre en courant"; "They were hurrying along" = "Ils s'avançaient à la hâte"; "The fairy glided in" = "La fée entra en glissant"; "We walked up the hill, but we drove down" = "Nous montâmes la côte à pied, mais nous la descendîmes en voiture"; "The man struggled out of the bog" = "L'homme sortit avec peine du marécage."

If you bear in mind the above general principles you will find this exceedingly difficult problem easier to tackle.

GERMAN DICTATION

Ein Prediger ging zu einem Gefangenen, um ihm seinen Lebenswandel vorzuhalten. „Wieviel Mal sind Sie schon im Gefängnis gewesen?“ „Zwölf Mal,“ antwortete der Verbrecher. „Ich wundere mich,“ meinte der Geistliche, „dass Sie noch ruhig schlafen können nach allen Ihren Missetaten.“ „Ach,“ lachte der Sträfling, „ein gutes Gewissen ist ein sanftes Ruhekitzen.“

(Continued from column 3)

con dirigir al reclamante (*claimant*), al remitirle el cheque, una carta que decía:—

„Muy señor nuestro: Notamos que su póliza fué sacada (or se sacó) el jueves pasado a las diez de la mañana y que el incendio no ocurrió hasta las 3½ de la tarde. ¿Porqué esta demora?“

SPANISH

Aids and Hints for Students—XIII

By W. F. BLETCHER

With the present article I conclude my remarks on SER and ESTAR. SER is always used with the word *precio* (price), as in:—

„Es muy caro el precio que Vd. pide,“ but when the *article* itself is spoken of as cheap or dear, either *ser* or *estar* may be used, according as the article be intrinsically cheap or dear (*ser*) or only temporarily so (*estar*), thus:—

„La seda es siempre más cara que el algodón.“
„Comparando el oro con el hierro, se puede decir que aquél es caro y éste es barato.“

In the above examples the *intrinsic* value of the article is referred to. Now, let us take the sentence:—

„El algodón está muy caro hoy; ha subido mucho.“

Here it is the *relative* or *temporary* dearness of cotton that is described, as its price varies from day to day.

Next, note that after *donde*, SER is sometimes used in the sense of *to occur*, *to take place*:—

„¿Dónde es el concierto (o el baile)?“
„¿Dónde fué el incendio (o el accidente)?“
„¿Será aquí la reunión?“

In these sentences *estar* is not used, as it is not the *situation* of the concert or the fire or the party that is in question. They could very well be rendered:—

„¿Dónde se da el concierto?“
„¿Dónde ocurrió el incendio?“
„¿Se celebrará aquí la reunión?“

On the other hand, it would be quite correct to say:—

„¿Dónde está el salón de conciertos?“
„¿Dónde está el fuego? Quiero calentarme las manos.“

Last year, a listener asked me whether "It was here that he died" should be translated: "Era aquí que murió" or "Estaba aquí que murió." As *aquí* denoted locality, he presumed that *estaba* was correct. He was wrong. In Spanish it must be turned into: "Here was where he died"—"Aquí fué or es donde murió."

Spanish differs from French in this respect. The French form: "c'était ici que" is quite inadmissible. Other sentences belonging to the same group are:—

"Ayer fué cuando le ví" (*not* fué ayer que le ví).

"Así fué como murió" (*not* fué así que murió).

Finally, I am often asked whether *ser* or *estar* should accompany the adjectives *seguro* and *cierto*. "Estar seguro" is personal. "Ser seguro or cierto" is impersonal. Thus:—

"Estoy seguro (de) que no le convendrá." (I am sure it will not suit him).

"Es seguro que vendrá." (It is certain that he will come or he is certain to come).

"Eso no es cierto or verdad." (That is not true).

A reader asks me to translate for him both of us and both he and I. For the purpose I will take two sentences:—"Both of us are going."

"Both he and I think the same." In Spanish these would be rendered:—"Ambos vamos or los dos vamos" and "Tanto él como yo pensamos lo mismo." It is quite wrong to say "ambos de nosotros," "ambos de ellos," etc.

In the following sentence *both of us* is used as the object of the verb:—

"Nos vió y nos habló a los dos or a ambos" (He saw and spoke to both of us).

Para concluir, uns anecdota en español:—

El dueño de una casa de empeños (*pawnshop*) sacó una póliza de seguro contra incendios. El mismo día estalló (*broke out*) un incendio que destruyó todo el edificio y su contenido. En vano la compañía de seguros trató de defenderse buscando motivos para negarse al pago (*refuse payment*), y por fin, tuvo que contentarse

(Continued at end of col. 2.)

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LONDON

Competition

RESULT OF COMPETITION NO. 9.

The following are the correct answers to the questions in our French competition of March 23:—

Answer in French the following questions:—

- (1) Expliquez l'expression "Excusez du peu."
Answer: [A jesting apology for an apparently exaggerated statement.] On se sert de cette expression pour s'excuser lorsque ce que l'on vient de dire semble un peu exagéré.
- (2) Que signifie "nuitamment"?
Answer: A la faveur de la nuit.
- (3) Qui était Murat?
Answer: Joachim Murat [1767-1815] beau-frère de Napoléon Ier, mari de Caroline Bonaparte, fameux général de cavalerie, roi de Naples de 1808 à 1814. Condamné à mort et fusillé en 1815. Héros de la fameuse charge de cavalerie qui décida de la victoire à Eylau 1807.
- (4) Pourquoi la lettre "s" se prononce-t-elle "z" dans le mot "Strasbourg"?
Answer: Cette modification est le résultat d'un phénomène connu sous le nom d'assimilation régressive. La consonne "b" est vocalique [voiced sound], la consonne "s" est non vocalique [voiceless sound]; par suite d'un acte de prévision des organes de la parole, le son "s" se vocalise et devient "z." [Similar case in English: goose-berry; the "s" of "goose" is usually pronounced "z" in gooseberry.]
- (5) Que signifie "se mettre en quatre"?
Answer: S'employer de toutes ses forces pour faire un travail, pour rendre service.
- (6) Dans la terminaison "il" la consonne "l" se prononce-t-elle toujours? Donnez 6 mots en "il" dans lesquels la lettre "l" est muette.
Answer: [La lettre "l" se prononce généralement dans la terminaison "il." Ex. avril, civil, exil, fil, vil, viril, profil, puénil, etc. . .] Mais il y a quelques exceptions; dans les mots suivants la lettre "l" ne se prononce pas: baril, chenil, coutil, fournil, fusil, gentil, outil, persil, sourcil.
- (7) Expliquez l'emploi de "où" dans la phrase: "Les jours où il travaille."
Answer: En français le sens propre de "où" c'est "dans lequel" en parlant du lieu où l'on est, où l'on va, et par analogie, en parlant du temps (time). "Où" avec un nom pour antécédent remplace donc le pronom relatif lequel complétement d'une préposition et la préposition elle-même, quand il s'agit du lieu ou du temps. "Les jours où il travaille" c'est-à-dire: Les jours dans lesquels [pendant lesquels] il travaille.
- (8) D'où sont tirés les vers suivants?
 "Poète, prends ton luth et me donne un baiser;
 La fleur de l'églantier sent ses bourgeons éclore,
 Le printemps naît ce soir; . . ."
Answer: Ce sont les premiers vers d'un poème qui s'intitule "La Nuit de Mai." Auteur: Alfred de Musset 1810-1857.
- (9) Qui est l'auteur de "La Lettre Chargée"?
Answer: Eugène Labiche [1815-1888] né à Paris. Auteur dramatique d'une fécondité et d'une gaieté qui ont fait de lui les plus connus des vaudevillistes français. Citons entre autres: "Le Voyage de M. Perrichon," "Le Chapeau de paille d'Italie," "La Poudre aux yeux," "Cagnotte," "La Grammaire," etc.
- (10) Quelle différence y a-t-il entre: "Il n'y a que vous," et "Il n'y a pas que vous"?
Answer: On se sert de l'expression "ne pas . . . que" quand on veut annoncer qu'il y a quelque chose à ajouter. Il n'y a que vous = Il y a vous et personne d'autre. [You are the only one.] Il n'y a pas que vous = Il y a vous; mais il y en a d'autres encore. [You are not the only one.]
- (11) Complétez les phrases suivantes: (a) Il est revenu sain et —. (b) Le bateau s'est

perdu — et —. (c) Il est toujours tiré à —. (d) Elle se promenait de — en large. (e) Nous l'avons échappé —.
Answers: (a) Sain et sauf. (b) Corps et biens. (c) à quatre épingles. (d) de long en large. (e) échappé belle.

The best replies were sent in by:—

- ALBERT ROSE,
 33, Cambrian Place, Ulverston, Lancs,
 and
 A. J. MORE,
 12, Broughton Road, Handsworth, Birmingham,
 to whom the first and second prizes of £3 and £2 have been awarded respectively. The third prize of £1 is divided between two competitors, whose papers tied so closely that it was impossible to give preference to either. The names of these competitors are:—
 Miss P. M. POLKINGHORNE,
 1, Kensington Terrace, Hyde Park, Leeds,
 and
 A. S. ROBERTSON,
 81, Ormonde Crescent, Muirend, Glasgow.

Continental Programme Events

Sunday, April 8.

- 7.10 a.m. Hilversum.—Carillon from the Royal Palace at Amsterdam.
 4.55 p.m. Hamburg.—"Die Meistersinger von Nürnberg" (Wagner).
 6.0 " Prague.—"The Bartered Bride."
 6.15 " Stockholm.—"Everyman."
 6.30 " Königsberg.—"La Tosca."
 7 " Langenberg.—"Faust" (Goethe).
 7.2 " Copenhagen.—Sacred Concert from the Cathedral.

Monday, April 9.

- 4.30 p.m. Langenberg.—"Die Meistersinger von Nürnberg" (Wagner).
 6.30 " Leipzig.—"Rund um die Liebe" (Oscar Strauss).
 7.50 " Hilversum.—Mozart programme.

Tuesday, April 10.

- 6.30 p.m. Kattowitz.—"Il Trovatore" (Verdi).
 6.45 " Munich.—Dürer Festival programme.
 7 " Copenhagen.—Danish folk music.
 7.10 " Königsberg.—"Ingeborg" (Curt Götz).
 8.15 " Brussels.—"The Daughter of Madame Angot" (Lecocq).
 9.15 " Copenhagen.—Modern Danish music.

Wednesday, April 11.

- 7 p.m. Stuttgart.—"Gipsy Love" (Lehár).
 7 " Hamburg.—"Madonna am Wiesen-zaum" (Opera by Mraczek).
 7 " Copenhagen.—Polish music.
 7 " Zurich.—Beethoven programme.
 8.15 " Brussels.—Schubert centenary concert.

Thursday, April 12.

- 6.30 p.m. Munich.—"Li-tai-pe" (Opera by Frankenstein).
 6.30 " Stockholm.—"Peer Gynt" (Ibsen).
 7 " Königsberg.—"The Magic Flute."
 7.5 " Vienna.—"La Serva Padrona."
 7.15 " Langenberg.—Ball.
 8 " Milan.—"Andrea Chenier."
 8.30 " Radio-Paris.—"La Tosca."

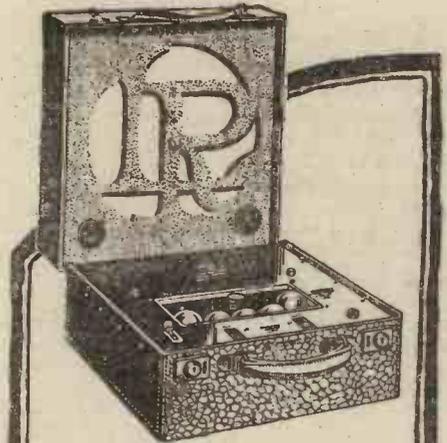
Friday, April 13.

- 7.15 p.m. Leipzig.—"Alessandro Stradella."
 7.30 " Breslau.—Symphony concert.
 7.50 " Naples.—"Zaga" (Leoncavallo).
 8.30 " Radio Paris.—"Tannhäuser"
 8.45 " Copenhagen.—Spanish music.

Saturday, April 14.

- 6.30 p.m. Bratislava.—"Jacobin" (Dvorák).
 7.30 " Warsaw.—"The Count of Luxembourg" (Lehár).
 10.5 " Barcelona.—Handel concert.

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Dominion and Foreign Broadcasting Intelligence

CANADA

(From our Montreal Correspondent.)

Wavelength Settlement Still Indefinite

Canada's claim to more exclusive wavelengths is one of the matters likely to be postponed in the event of the United States Federal Radio Commission not receiving a further lease of life. Legally the Commission's authority expired March 15, and Congress appears disinclined to grant a renewal of that authority. It was stated at the headquarters of the Commission to-day that the Commission expects to get a special mandate from Mr. Herbert Hoover, Secretary of Commerce, to carry on its work until it is concluded and the transfer of its activities is made to the Department of Commerce. The most important Canadian claim now pending is that for an additional exclusive band for the use of the Manitoba Provincial Government broadcasting station, which requires its own wavelength in order to function adequately. The Commission is unable to meet this demand at present, because most of the licences are issued for a specified period, and hopeless congestion "on the air" in the United States has made it impossible to reserve any wavelengths. In applying formally for Manitoba's requirements, the Canadian radio authorities reminded the United States that Canada's claim stands for at least a dozen exclusive bands instead of the present six. An increase in the number of shared wavelengths was also suggested.

FRANCE

(From our Paris Correspondent.)

Presentation Sets to Hospitals.

Ten powerful receiving sets, presented by the *Matin* to those Paris hospitals which have the most patients, were handed over last Monday at the monthly charity concert of the "Œuvre de la T.S.F. à l'hôpital" which was conducted by M. Victor Charpentier, the composer. The original "Radiolo," M. Marcel Laporte, came specially from Nice-Juan-les-Pins, where he is now station director, to act as "speaker" at the gathering, and it must have been with considerable gratification that he saw the presentation, for it was he who launched the "wireless for hospitals" movement when he was here as Radio-Paris's announcer.

Increase of Grenoble's Power.

Since "Radio-Alpes," the Grenoble broadcasting station, increased its power a few days ago its area of service has been greatly increased, and for the first time it has been heard in places as far apart as the Channel coast and Bastia (Corsica).

Picking up Morocco.

Listening for Radio-Morocco, the "latest thing" among French long-distance "fans" in the north, has produced several claims to success. The station is on 410 metres, and the announcements are in French.

GERMANY

(From our Munich Correspondent.)

Nürnberg's Change of Wavelength.

The Nürnberg station has permanently left its previous wavelength of 303 m. and now transmits on 241.9 m. (up till now Münster's wave). The change was effected in the night between March 29 and 30.

HOLLAND

(From our Correspondent at The Hague.)

Sugar Employers and Radio

According to the Soerabaya *Handelsblad* the Java Sugar Employers' Union has applied to the Government of the Dutch East Indies for

permission to instal wireless communication between the various factories and also between the factories and the offices of the Union. The Government is giving favourable consideration to this request, and has appointed a Commission to enquire into the matter and to report as to what conditions should be made for granting it. The Employers' Union is at present making tests through Radio-Holland from Priok, Radinova, Soerabaya, and Bandoeng.

Broadcasting and Surgery.

The latest development of hospital radio here is that made by Professor Otto Lanz, the famous Swiss surgeon, who carries on his practice at the University Hospital at Amsterdam. Professor Lanz has arranged to have a loud speaker and two headphones installed in his operating theatre with the object of providing distraction for patients who have to undergo operations, but who, for one reason or another, are not given a narcotic.

MEXICO

So much conflicting information has been current with regard to Mexican stations, according to the *New York Times*, that the Acting United States Commercial Attaché was asked to furnish the facts, which he did. It appears that there are some twenty stations operating in Mexico, of which five (all in Mexico City) are of sufficient power to render likely their reception in the United States.

Of four of these stations the following particulars are given:—CYJ (410 m., 730 kc., 2 kw.); CYB (442 m., 678 kc., 1 kw.); CZE, of the Federal Department of Education (357 m., 857 kc., 0.5 kw.); and CZI, of the Department of Industry.

NORWAY

(From our Oslo Correspondent.)

All-Norse Symphony Concert.

Johannes Haarklou, whose compositions figured largely in the All-Norse Symphony Concert broadcast from the studio last Friday evening, was born in 1847 in Soendfjord, and in the 'nineties received support from the State to carry out his schemes for popular symphony concerts. The three symphonies given on Friday—"In Westminster Abbey": (a) Preludium, (b) The Moment of Death, (c) By Handel's Monument—were written in 1899 after the composer had visited the "mighty Gothic cathedral in London." The prelude is inspired by the sight of the Abbey and by the memories awakened by the memorials of England's dead. The second symphony is inspired by the contemplation of Florence Nightingale's monument, which he regards as symbolising humanity's powerlessness against death. The third is the composer's respectful homage to the great master, Handel.

Ambitions for High-Power Station.

The Broadcasting Company is appealing for more moderate terms for telegraph and telephone lines, and urges that their activities are worthy of State aid in a country like Norway, where broadcasting assists the Church, education and culture, benefits industries and promotes goodwill and understanding amongst widely-scattered communities—precisely those objects for which the State is willing to devote large sums of money. But the company does not wish to lay stress on State aid as a support to a needy cause so much as to call attention to the matter of taxation and receive some encouragement towards their plans for a giant station. The Broadcasting Company has the ambition, so dear to the Norwegian mind, of

reaching their fellow-countrymen abroad, even so far away as Canada and the United States, and particularly Norwegian seamen, who, at present when at sea, can hear both Sweden and Denmark, but not their mother-tongue.

Correspondence

Crystal Reception.

To the Editor of WORLD-RADIO.

SIR,—With reference to recent correspondence regarding crystal set reception, the following list of stations received and identified during September last, and on several more recent occasions, may be of interest:—Hamburg, Frankfurt, Langenberg, Daventry (5GB), and Vienna, Hilversum, Kalundborg, Königswusterhausen, Motala, Daventry (5XX), and Radio Paris. Including the main BBC stations (received during February, 1925) and Chelmsford, the writer has up to date been able to identify twenty stations, using an ordinary crystal set.—Yours truly,
E.

Newcastle-upon-Tyne, March 8.

To the Editor of WORLD-RADIO.

SIR,—It appears that some information is desired as to the means by which are obtained the results mentioned in my previous letter.

These results may be due in part to favourable local circumstances, but special attention has been paid to the earth, insulation, etc.

The aerial consists of 49 strand phosphor-bronze wire 80 feet long (about 55 feet horizontal and 25 feet down lead) average height 28 feet. It is insulated at each end by four insulators—three porcelain and one glass—and is brought in unbroken to the set through glass-lined ebonite tubing.

The earth lead is of the same wire, about five feet long and is taken out through glass-lined ebonite tubing.

The earth consists of (1) an old dustbin lid and a copper earth tube buried in damp clay almost immediately below the aerial lead in; (2) a 49 strand phosphor-bronze wire, buried a few inches below the surface and parallel to the aerial, and connected to another dustbin lid buried in clay almost immediately below the further end of the aerial.

The set itself has quite a straightforward circuit—direct coupled aerial coil, crystal centre-tapped. Various crystals have been tried—natural, synthetic, and semi-permanent—but there is not much difference between them except as regards selectivity.

If you can see your way to insert this letter it may help others to obtain similar interesting results.—Yours faithfully,
C. R. DAINES.

Chingford, E. 4.
March 30, 1928.

Snow and Broadcast Reception

To the Editor of WORLD-RADIO.

SIR,—In this week's correspondence column I notice that one of your correspondents writing from Dublin states that he has had very good reception during a bad fall of snow. May I say that during the heavy snowstorm on last Christmas Day I was listening to the concert from Radio-Paris when I noticed a slight fall in strength? Thinking it was just fading, I did not take any notice for some time, but as strength did not improve I started to find out the trouble. I could not find anything wrong with the set, so thought it might be the aerial. Imagine my surprise when I found one end of the aerial lying on the ground covered with snow. And yet I was getting signals strong enough to be heard comfortably in a large double room. Several other Continental stations were also heard while the aerial was in this condition, with only a slight drop in their former strength.—Yours faithfully,
H. SLATTER.

Stoke Newington, N. 16.

April 1, 1928.

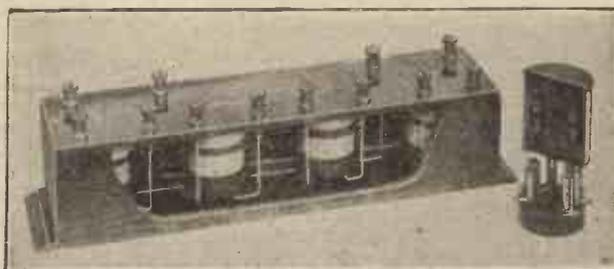
There is only one type of Receiver that will get ALL stations, that's a Super-Het, and only one Super-Het that will do this
"THE LIBERTY."



The "Liberty" will give you continuous tuning from 10/3000 metres and in this respect is **UNIQUE** in the world's Components.

SUPERSONIC UNITS (KITS) 10/3000 METRES

will Receive ANY STATION at will, not by accident, including AMERICA and AUSTRALIA.
 NOTE—2 TUNING CONTROLS ONLY.



SECTIONAL VIEW OF UNIT AND OSCILLATOR.

PRICE.—Unit Complete with Long Wave Oscillator (750/3000), Medium Wave (250/800) and Short Wave (10/200), and Oscillator Holder,

£5 : 10 : 6 Including full-size wiring and theoretical Diagram and list of other parts required.

UNPRECEDENTED SUPER HET TEST.

Every Unit tested in our actual Super Het Receiver over the whole range of 10/3000 Metres and fully guaranteed.

ACTUAL LOG OF "LIBERTY" SUPER HET No. 1921.

STATION	AERIAL OSC.	STATION	AERIAL OSC.	STATION	AERIAL OSC.	STATION	AERIAL OSC.
LONG WAVE STATIONS							
Radio Paris	165 148	Munich	145 179	Manchester	96 125	New York Weaf	134 16
Daventry	156 140	Riga	140 176	Stuttgart	94 124	Bonndbrook WJZ	96 130
Moscow	142 142	Rosenhugal	138 172	Madrid	93 120	Schenectady WGR	94 124
Motala	142 127	Brussels	136 170	Leipzig	87 115	Springfield WBZ	70 71
Berlin	125 116	Daventry 5GB	134 167	London	85 110	Chicago WGN	59 74
Kalundberg	110 105	Lyons	130 165	Graz	84 108	SHORT WAVE STATIONS	
Warsaw	105 94	Langenberg	127 163	Cardiff	82 106	Sydney 2 F.C.	30 34
Baile	102 92	Barcelona	125 161	Prague	80 105	Melbourne 3 LO	54 61
Hilversum	100 90	Oslo	118 152	Barcelona	78 102	Pittsburg KDKA	109 126
Leningrad	87 71	Rome	111 145	Petit Paris	74 77	2 X.A.F.	40 80
MEDIUM WAVE STATIONS							
Zurich	153 127	Brunn	110 144	Bournemouth	66 86	2 X.A.D.	48 55
Vienna	150 125	Frankfort	110 140	Breslau	65 85	Java A.N.H.	15 16
Budapest	148 122	Cracow	109 139	Dublin	63 83	Berne E.H. 9 OC	54 61
		Berne	106 138	Milan	146 121	Eindhoven PCJJ	16 16
		Glasgow	105 136	Newcastle	60 75	Eiffel Tower P.L.	54 61
		Cork	102 134	Belfast	55 66	Rocky Point 2 XG	14 15
		Seville	101 133	Nurnberg	54 65		
		Hamburg	100 131	San Sebastian	50 55		
		Toulouse	99 128	Dortmund	40 39		

TECHNICAL TESTS & REPORTS.

"WIRELESS WORLD," November 24th, 1926.

The Makers' claim of range and selectivity are in no way exaggerated.

"LIVERPOOL POST," October 23th, 1926.

A "Liberty" 8 valve Super-Heterodyne Receiver was then tuned in, on which, without aerial or earth, the New York dance bands were heard as plainly as those of London.

"AMATEUR WIRELESS," September 5th, 1925.

We were particularly struck with the ease with which stations may be tuned in. With each Receiver is given a calibration card, by setting the condenser dials to these settings, the receiving of various stations is mere child's play.

"MODERN WIRELESS," Elstree, October 1926.

Excellent loud speaker reception on a number of stations was obtained in daylight on a small frame aerial; among these were Birmingham, Bournemouth, Manchester, London, Cardiff and Nottingham. Give excellent results and can be recommended.

"WIRELESS TRADER," August 25th, 1923.

The result was satisfactory. We counted 41 stations actually logged at loud speaker strength.

"THE BROADCASTER," September, 1925.

This test was successful, and we were able to tune in about a score of stations apart from those in England. Though in fair proximity to London station, this was easily tuned out and Manchester came in at loud speaker strength.

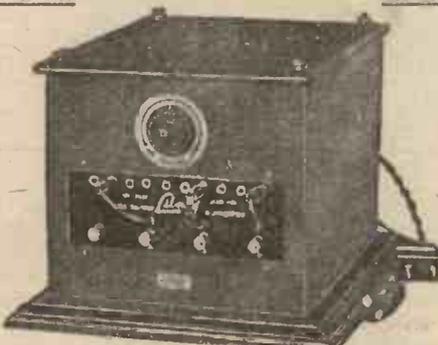
"ALL VOLTAGE" H.T.

SILENT—SAFE
 DC. MODEL.

£2 / 5 / 0
 complete.

RADI-ARC ELECTRICAL CO. (1927)
 LIMITED,
 BENNETT STREET, LONDON, W. 4.

10 VOLTAGE TAPPINGS GIVING 10 to 150 VOLTS.
 AT 50 MA. AT 50 MA.



METAL CASE—NO MAINS HUM GUARANTEED.

BATTERY ELIMINATORS

EFFICIENT—FOOLPROOF.
 AC. MODEL.

£5 / 5 / 0
 Valve and (royalty, 12/6 extra).

ILLUSTRATED CATALOGUE
 POST FREE.

Wireless Step by Step

By "DICTRON"

L.—High Tension Batteries

OUR recent discussions on the subject of accumulator batteries will be associated in the mind of the reader with what is generally referred to as the "low tension battery," required to heat the filaments of the valves in the receiving apparatus. Of course, batteries of accumulators cells can be used to provide the necessary high tension voltage to the anodes of the valves of the receiver. A battery of this kind generally consists of a large number of small low-capacity cells connected in series. The capacity is normally not more than 1.5 to 2 ampere hours. A battery of small capacity cells is extremely effective for this purpose, but is just as subject to the normal ailments of accumulator cells as is a low tension battery of many times the capacity, and particular care must be taken to avoid charging or discharging at rates higher than are appropriate. The difficulty of charging high tension accumulator batteries of very small capacities is to obtain a low enough rate of charging current. It is frequently the case that high tension accumulator batteries consist of blocks of 15 cells connected in series giving a E.M.F. of 30 volts. Supposing that four such blocks are used to give a voltage of 120 volts for operating the receiver, it will be best to connect the four blocks in parallel for charging purposes in order that a higher charging rate may be used than a tenth of the ampere hour capacity of each block.

The reader will remember that in our earlier studies we learnt that cells of equal capacity connected in parallel increased the total ampere hour capacity to a figure equal to the sum of the capacities of the cells so connected—that is to say, a cell having a capacity of two ampere hours connected in parallel with a similar cell would have the capacity of four ampere hours. Three cells connected in parallel would have a capacity of six ampere hours. It is obvious therefore that the rate at which the battery may be charged can be increased by connecting batteries in parallel, but it is important that the ampere hour capacity of each battery connected in parallel for charging purposes should be equal because the lower the capacity of a battery the lower its internal resistance. Obviously, then, if two cells of different capacities are connected in parallel for charging purposes more current will flow through the lower capacity cell than through the other. It is the writer's experience that many listeners who use accumulator cells to provide high tension voltage for their sets are apt to neglect them, while paying scrupulous attention to the large capacity low tension filament battery. It is even more important to pay attention to each cell of a high tension accumulator battery as a unit since their construction is more delicate and consequently more subject to the ailments of accumulator batteries as discussed in previous instalments.

Dry Cells.

For the provision of the required high tension voltage for operating the valves of a receiving set dry cells are in more general use than are accumulators. The fundamental difference between a dry cell and an accumulator cell is that the former cannot in any circumstances be recharged. In point of fact, the term "dry cell" is a misnomer; it should be properly referred to as an unspillable cell, since it relies for its action just as much on the presence of an acid solution as does the accumulator, but in a different form, as we shall see. If a term of distinction is requisite it may be referred to as a "primary" cell as opposed to the term "secondary" cell, applied to the accumulator—the distinction indicating that the former can function in one direction only, giving out energy without being able to absorb it; while the latter can, as we know, be charged and discharged, *i.e.*, function in two opposite directions. The barest outline

of the construction and action of the dry cell as it has become known is all that we need consider. Detail may be omitted because a cell or battery of cells can only be discharged once and then thrown away without hope of resuscitation. Consequently, a close study will not be of any practical assistance since the question of maintenance does not arise. The cell consists of a positive element of zinc in the form of a pot in which is the negative element of carbon surrounded by the electrolyte arranged in a semi-solid form. The solution is generally of sal-ammoniac rendered semi-solid by mixing with plaster of Paris, gelatine, or some other suitable substance. The sal-ammoniac solution is normally one part of salt to two of water. The E.M.F. of such a cell varies between 1.4 and 1.6 volt, according to the electrolyte and elements used. A number of cells are connected in series to produce the required E.M.F., and the whole battery enclosed in a cardboard container, the space between and above each cell up to the line of the top of the container being filled with pitch or paraffin wax. The capacity of a battery of dry cells depends upon the area of positive and negative elements and upon the strength of the acid paste. It is normally very small.

When first obtained from the manufacturer the battery will be found to give a voltage slightly higher than the sum of the number of cells multiplied by 1.5. On putting it into service it will be noticed that the voltage falls rapidly to 1.5 or slightly below for each cell and should remain constant for a long time until the life of the cell begins to be exhausted. It is advisable to renew the battery as soon as the voltage falls below 1.2 per cell. A weak or failing battery is a frequent cause of bad and distorted reception because the internal resistance of a battery rises rapidly as the voltage begins to fall. Some manufacturers make what are called double capacity dry batteries, and it is as well to use these when the set is being operated at high voltages resulting in high values of anode current in the low frequency amplifying stage. In such circumstances it is really best to use H.T. accumulators. The initial cost is higher, but the life is almost illimitable if reasonable care is taken in charging and discharging.

Another disadvantage of the dry cell is that it tends to deteriorate rapidly while not in use, which the accumulator will not do if properly cared for and charged at regular intervals. On the other hand, the dry battery has the advantage of being more compact and portable and its initial cost relatively very low.

(Continued from col. 3.)

of Tuesday, March 27, an American station on approximately 21 metres and succeeded in identifying it. Several of us heard it, but no one that I have heard from so far succeeded in getting the call-sign. It may, of course, have been an amateur transmission.

A correspondent, I see, disagrees with my remarks about "snowspherics"; he has found that reception remained clear and loud, with hardly any interference during a recent snow-storm. I did not say that falling snow invariably caused parasitic noises; it does not, any more than do fine driving rain and sleet whenever or wherever they occur. If, however, the particles of snow, sleet, or rain happen to carry considerable electrical charges then noisiness is likely to occur.

German "Journal Parlé"

A new feature is to be introduced into the programmes of the West German Broadcasting Company—namely, ten-minute talks under the title of "Das Ereignis des Tages" (The Day's Event), somewhat in the form of newspaper leading articles, in which the happenings of the day will be recapitulated and commented upon.

Last Week's Log

By "THE SEARCHER"

DURING the earlier part of last week I was unable to do much in the way of long distance searching on the medium and upper wave-bands since a partial rebuilding of the receiving apparatus was in progress and the stand-by set which had to be used in its stead is not quite selective enough for present day requirements. From the middle of the week onwards atmospheric conditions have been a considerable nuisance. They were at their worst on the Friday; so bad were they, in fact, that one gathered that thunderstorms must be in progress at no great distance away, though nothing could be seen or heard in the way of lightning flashes or thunder claps. The next morning's papers confirmed this deduction, reporting, as they did, several cases of damage by lightning. Apart from atmospheric reception conditions have been exceedingly good, particularly upon the medium band, though a good deal of fading has been noticeable at times—one of the signs that spring is now with us.

I am rather surprised to notice that "Northerner" missed Radio Wien during the previous week. I heard him at least once during that period at greater strength than he has shown for months past with me. There is no doubt that it was Vienna, for apart from the evidence of the wave-meter the call-sign was clearly given. This just shows how receiving conditions can differ in different localities. Lyons Doua has also been an excellent signal more often than not, whilst Berlin Witzleben has been exceedingly good at times. Prague has been fading rather badly and I have not heard very much of him lately. Of the French stations, two first-rate transmissions have been those of Grenoble (which is at work only on Wednesdays and Saturdays on 278 metres) and Bordeaux on 237 metres. The latter kept it up until after 12.30 a.m. the other night, and came in so powerfully that a wave-trap had to be used in order to prevent interference with other transmissions at the lower end of the band. I never remember coming across so big a wipe-out effect from a station at anything like the distance. Grenoble is, of course, only to be heard well when Kiel is not working. Searching late in the evening has been well worth while, the Spanish stations having come in at astonishing strength and quality, particularly Barcelona EAJI and Madrid Union Radio.

On the short waves conditions have shown a good deal of variation from time to time. 2XAF has been good as a rule, reaching full loud-speaker strength on several nights. There has, however, been atmospheric interference with this station and with others on the short waves on the majority of nights. WRNY has been heard, though rather weakly, and the 62.5 metre transmission of KDKA has also not been up to strength. I reported recently that I had not been able to make much of the 26-metre transmission from KDKA; lately, however, both the strength and the quality of this transmission have improved, and my experience is confirmed by that of a correspondent who lives farther south than I do. PCJJ has come across with tremendous strength. 3LO, though his quality was good, has been heard only at telephone strength. AFK, the Döberitz station, has been working on 45.3 metres and has been very strongly heard. There is a particularly interesting transmission to be heard just now in the shape of ATH of Vienna. I understand that the station is run by the Austrian postal authorities somewhat on the same lines as the French PTT. Rome, IMA, has been good, and the Eiffel Tower test transmissions on a wavelength slightly over 31 metres have come in very powerfully. ANE has been heard at good telephone strength. I wonder if any reader picked up on the night

(Continued in Col. 2.)

SHORT WAVE STATIONS

M.	Kc.	Station
85	3529	Zürich (Radio Club) EH9XD.
70	4285	Springfield (Mass.) WBZ.
70	4285	Vienna (OHK2). (Transmits on SUN. for 15 minutes after each hour from 5 p.m. till midnight.)
67.65	4434	Döberitz (AFK) 5 kw. MON., WED., and FRI., 10-11 a.m. and 6-7 p.m.
66.04	4542	Los Angeles (California) 6XAL from mdnt. 0.5 kw.
66.04	4542	Cleveland (Ohio) 8XF, 0.5 kw.
65.4	4587	Newark (N.J.) 2XAO, .05 kw.
65.18	4600	Newark (U.S.A.) WAAM, 0.5 kw.
65.18	4600	Newark (New Jersey), 0.5 kw. 2XBA (S.W. of WAAM). Transmits between 12 mdnt. and 5 a.m. TUESDAYS, THURSDAYS and SATURDAYS. .05 kw.
65.18	4600	San Diego (KFBC).
64	4687	Richmond Hill (New York) WABC, 0.5 kw.
62.5	4800	Pittsburgh East (Westinghouse Electric) KDKA (U.S.A.).
61.06	4913	Council Bluffs (Iowa) 9XU. 0.5 kw
61	4918	Paris (Radio LL) GC.
60	5000	Russia, RFN (irregular).
59.96	5003	Bound Brook (N.J.) 3XL, 30 kw.
56.7	5291	Nauen (AGJ) occasionally after 6.0 p.m.
54.02	5553	Columbus (Ohio) 8XJ.
54.02	5553	Coney Island (N.Y.) 2XBH, 0.15 kw.
54	5555	Brooklyn (N.Y.) WCGV, from 11.0 p.m.
53.54	5800	Portland (Oregon) 7XAO, 0.1 kw.
52.05	5763	Harrison (Ohio) 8XAL, 0.5 kw.
52.02	5767	Cincinnati (Ohio) WLW. Relays medium wave transmissions from 11.50 p.m. G.M.T. Except SUN.
50	6000	Karlsborg (Sweden).
60	6000	Russia, RFN. TUES., THURS. and SAT., 12.0 noon and 1 p.m.
45	6366	Rome (Italy) IAX.
44.4	6596	Vienna, 0.24 kw.
43.35	6920	New Brunswick (N.J.) WIZ. Experiments occasionally from 11 p.m.
43	6976	Pittsburgh East (Westinghouse Electric) KDKA.
42.12	7122	Copenhagen, 7RL. SUN., 12 to 2 p.m. Mon., 11 p.m. to 12.30 a.m. TUES., 10 p.m. to 12 mdnt. FRI., 10 p.m. to 12 mdnt.
40.20	7463	Lyon (Rhône) YR. Daily except SUN. from 4.30 to 5.30 p.m.
38	7594	Agén.
37.5	8000	Ibarakiken (Japan) JHBB.
37	8103	Radio Vitus. WED., FRI. and SUN., 9.0 p.m. to 10.0 p.m.
33	9090	San Francisco (Cal.) 6XAR, from mdnt.
32.9	9118	Perth (W.A.) 6AG. 11.0-11.30 a.m.
32	9375	Zürich (Radio Club) EH9XD.
32	9375	Melbourne (3LO). SUNDAYS, 6.30 p.m. to 8.30 p.m. G.M.T.
32	9375	Johannesburg (JB).
32	9375	Berne (Switzerland) EH90C.
32	9375	Paris, Eiffel Tower. Time Signal 7.50 a.m. and 7.56 p.m.
32.5	9231	Sydney (2BL).
32	9375	Detroit (Mich.) 8XAO WJR, 0.75 kw.
31.4	9554	Schenectady (General Electric Co.), N.Y. 2XAF, 10kw. (Aer.). SUN., WED. and FRI., No transmission. MON., 11.0 p.m. to 4.0 a.m. TUES., 11.0 p.m. to 6.0 a.m. THURS., 11.0 p.m. to 5.30 a.m. SAT., 11.25 p.m. to 5.0 a.m., 0.5 kw. Relays WGY.
31.93	9395	Bandoeng, Java (Radio Service) ANE. TUES. and THURS., 4.40 p.m. to 6.40 p.m. (G.M.T.).
31.25	9600	Bergen.
31.5	9523	Helsingfors, 0.3 kw.
30.91	9706	New York (2XAL). TUES., 12.0 midnight to 5 a.m. (WED.). WED. 12.0 midnight to 2.0 a.m. (THURS.). FRI., 12.0 midnight to 4.0 a.m. (SAT.). SAT., 12 midnight to 3.0 a.m. (SUN.), 0.5 kw.
30.2	9934	Hilversum, Holland, PCJJ. TUES. and THURS. 6.30 p.m. (G.M.T.) and SAT. from 2 to 6.0 p.m. (G.M.T.).
30	10,000	Bergen (Norway) I.G.N.
28.5	10,526	Sydney (2FC).
26.92	11,144	New York (2XAG).
26.8	11,194	Pittsburgh (8XK). MON. and THURS. 7 p.m. to 9 p.m. 40 kw.
24	12,500	New York (2XAB).
24	12,500	Chelmsford (58W, 15 kw. Aer). DAILY (except SAT. and SUN.) from 12.30-1.30 p.m. and from 7 p.m.
22.99	13,049	Houlton (Maine) 2XAA, after 11 p.m.
22.8	13,158	Fort Wayne (Indiana) WOWO, 1 kw. after 11 p.m.
22.2	13,392	Vienna, 0.24 kw.
22.1	13,574	Richmond Hill (N.Y.) 2XE (S.W. of WABC). after 11 p.m.
21.96	13,661	Schenectady (General Electric Co.) 2XAD SUN., 11.30 p.m.-4 a.m. MON., 7 p.m. to 9 p.m. TUES., Tests only 5 p.m. to 6 p.m. WED., 11 p.m.-4 a.m. THURS., 7 p.m. to 9 p.m. FRI., 11 p.m. to 4 a.m. Relays W.G.Y. Wednesdays and Fridays.
18	16,566	Kootwijk (Holland) PCLL. WED., 2.0 p.m. to 4.0 p.m. and occasionally on MON. and FRI.
17.2	17,441	Nauen (AGC).
17	17,647	Bandoeng, Java (Radio-Malabar) ANH, 30 kw. SAT., 12.40 p.m. to 2.40 p.m.
16.02	18,726	Rocky Point (Long Island) 2XG. MON. and FRI., after 5.0 p.m.
15.93	18,832	Bandoeng, Java (Radio Service) ANE, MON., 12.40 p.m. to 2.40 p.m.
15.5	19,354	Nancy (France).

“Black Murder”

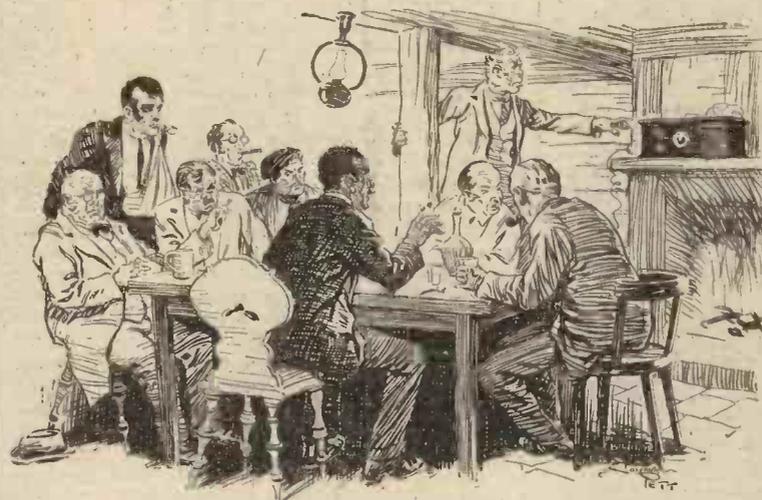
THE scene was a long low room in a wooden chalet situated in the middle of a little village near the Italian-Swiss frontier. Huge smoke-blackened beams stretched the full length of the ceiling, and at one end of the room a hole gaped in the roof giving exit to the smoke which billowed upwards from the large log fire burning in the open fireplace.

The room was almost bare of furniture, and seated at the rough pine table, a straw-covered Chianti flask and glasses before them, were two men, smoking. On a little shelf at the side of the fireplace was a mysterious oblong-shaped object, containing what appeared to be lengths of wire, small iron instruments, and in the middle a thing which looked not unlike a miniature clock.

The two men had ceased talking for several minutes and were bent over a paper spread out on the table before them, intently scanning a small plan inscribed thereon.

Suddenly they commenced to speak, in English.

“What time is Briand due to commence his speech?” asked Wensleigh, the Englishman, a dark-visaged man, jet black hair brushed



“C'est l'heure,” whispered the little Frenchman.

straight back from a low forehead, and the features of an Italian.

“Ten-thirty,” replied O’Riordan, an Irishman with the wild blood of generations of Celtic ancestors running thickly through his veins, “Chamberlain, Streseman, and a few other peacemakers will be there at the same time. The League of Nations! T’cha!” he muttered, half to himself, “but what’s the best way to get there from here, Wensleigh?”

For a moment the Englishman continued to stare at the plan before him, then lifting his eyes to his companion, replied shortly.

“Easy enough, O’Riordan, ‘diligence’ to Domodosella or Brigue, Simplon express to Lausanne, and from there, either boat across Lac Léman or train to Geneva—three hours’ journey in all.”

“Hum!” pondered O’Riordan, “and what about getting away afterwards?”

“Easier still,” replied the dark man; “motor-boat or steamer across the Lake, and in under an hour you are on the south side, on French territory.”

Suddenly came a knock at the door.

“Qui est là!” he called.

“Moi, Jacques,” came the reply in a high-pitched voice, and in answer to the gruff “Entrez!” a short slim Frenchman, Jacques Jacquard by name, stepped into the room, and after shaking hands with the two Britishers, sat down at the table, his glance wandering between the plah and the strange machine in the corner.

Following closely on the entry of the Frenchman came other knocks and soon there were six more strangers seated round the table.

Two Germans, cropped of hair and stout of build, an Italian with a long blue scar running down his cheek-bone, a gentleman whose birth-place one would have guessed to be “East of Suez,” a Spaniard with an arm in a sling, and last of all, a tall gaunt American—a motley crew indeed.

On the arrival of the last comer, Wensleigh went to the door and, after a glance outside, closed it with a bang, and, returning to his seat, slowly scanned the group before him.

“Eh bien!” he exclaimed, and then in fluent French, a tongue they all understood, “here is the plan, and now let us draw.”

Taking a black box from the shelf behind him, he shook it carefully, and passed it to the Frenchman on his left. Tensely the little group watched the hand as it was withdrawn from the box, a scrap of paper clenched tightly between the fingers. Glancing at it hastily the Frenchman shook his head with a half-smile on his lips, and crumpled the scrap of paper in his hand as he watched his neighbour, the Teuton, repeat the process, with a like result. And so it continued, each in his turn taking one of the folded slips of paper from the black box, not a word being spoken during the process, but each pair

of eyes unwinkingly regarding the drawer as his hand stretched out for its mysterious objective. Last to draw was the fair-haired Irishman. As his hand was withdrawn, the slip of paper grasped tightly in it, one observed that he trembled, and before looking to see what he held he gazed round at the seven silent faces before him. At last, with a half-sigh, he glanced at the paper in his hand.

Not a word was spoken as the others saw his face change, and still silently he sat down and waited.

Suddenly a clock

was heard chiming outside in the village square. “C’est l’heure,” whispered the little Frenchman. “Six heures et d’mi!” And, rising to his feet, the Irishman stepped slowly towards the oblong box on the side shelf, his hands fumbling before him.

Suddenly the little group seated at the table sat up, startled by a loud voice, which came ringing through the room splitting the deathly silence. “London and Daventry calling,” came the clarion tones from the oblong box, over which was leaning the Irishman. “Here is the first news bulletin, copyright by Reuter, Press Association, Exchange Telegraph, and Central News. . . . ‘Black Murder’ won the St. Legor by a short head this afternoon at three-thirty!”

“Begorrah,” shouted the Irishman, throwing his slip of paper on the table. “Me luck again. I knew the favourite would win!” And, glancing at it, the others saw written thereon, “BLACK MURDER.”

“Well done, old man,” cried Wensleigh the Englishman, slapping his friend on the back, “I suppose you will ‘blue’ the whole blessed sweepstake down at Geneva, and if you don’t hurry you will miss your train, and be too late to hear Briand and Chamberlain in their opening speeches at the League of Nations Palace.”

Stepping to the table he picked up the *Radio Times*, with its printed plan of the racecourse, explaining the event to the foreigners, as the London announcer’s voice continued to come through the loud speaker, giving a short résumé of the race.

J. S.

Which Station Was That?

ANSWERS TO CORRESPONDENTS

Reinartz (Sunderland): Cannot trace Morse stations. Tombo (Bayswater): No, not Edinburgh; not advertised in programmes, possibly an amateur. Galahad (Sheffield): Kalundborg, relaying Copenhagen (a relay of foreign stations). Ard-Na-Greine (Bridlington): Leningrad. Pandora: This was Langenberg, relaying the reception of Colonel Lindbergh at Washington; it was taken by many U.S.A. stations and rebroadcast by most of the German transmitters. Ernest Ward: You do not state time, regret cannot trace. Stromness: WJZ (Boundbrook); (2) we cannot trace any station working so late on that date possibly an amateur transmission. Star (Cheyne Walk): Yes, Kaiserslautern, relaying Munich; Peer Gynt (Ibsen). HF. 42: (a) yes, 3LO (Melbourne) received direct; (2) no, both British amateurs, but cannot trace call signs. Yes, 7RL, a radio journal's transmitter at Copenhagen. Ariel (Suffolk): Nürnberg, relaying Munich (Radion Circus). Rathgar (Co. Dublin): Cologne relaying the reception of Colonel Lindbergh from Washington; this was taken by many U.S.A. stations and re-broadcast by most of the German transmitters. Office Hyacinth (Blackburn): We regret that notwithstanding the details you give, it is impossible to trace stations heard from your condenser readings, but by comparison with your readings for Daventry we can tell you that No. 8 was Radio Paris. Flat Foot (Dublin): (1) Kattowitz (election results with gramophone records in the intervals); (2) Posen, broadcasting election results (gramophone records in the intervals). Graham Gildard (Glasgow): Your details are much too vague to trace; some estimate of WL must be given. Dora (Dartford): Inquirer (Birmingham); Nightwork (Gosforth): This was a German relay of the reception of Colonel Lindbergh at Washington. F. E. C. (Chelmsford): Langenberg, relaying variety concert from Cologne. A. B. (Coventry): WL wrong; Kattowitz, a talk in English by Prof. R. Dyboski: "Poland Past and Present." H. S. (Wallington): PPT Lille relaying from the Lilliana Dance Hall. Ad Astra (Surrey): Madrid (EAJ7) relaying dance music from the Hotel Palermo. N. R. Fisk (Clapham Common): (1) This was Milan (Vigentino) which is now working on about 549 m.; (2) Your details tally with the programme from Montpellier (Hérault); Kiel is on 256 m. (1,172 kc.). J. H. S. (Soton): An amateur transmission, but cannot trace as you give no call sign. K. A. T. (B'ham.): PTT Lille, relaying from the Lilliana Dance Hall. H. T. Haddock (Swansea): Kattowitz, talk in English: "Poland Past and Present," by Prof. R. Dyboski. BM/B3PW (Essex): You give no programme details, too vague, regret, cannot trace. J. H. Bainbridge (Durham): Kalundborg, relaying Copenhagen. On March 21, a relay of foreign stations. F. C. J. (Cornwall): Yes, 2NM, G. Marcuse, Caterham, Surrey. Melody Mad (Crouch End): PTT Lille, relaying from the Lilliana Dance Hall. Live and Learn (Westminster): 2CS, advertised as amateur transmitter at Pinner. E. V. E. (Bournemouth): Yes, WEAF (New York) would be working at that time. Theta (O): Kalundborg, relaying Copenhagen. Concert, with male choir, relayed from the Holmens Church. Puzzled (Jersey): Norddeich (Germany), weather and shipping report. B. C. M./ZVKE (Weymouth): Hilversum, confirmed by programme. Your estimate of WL is wrong. H. S. (Notts): Plymouth has its own children's hour; yes, apparently harmonic of 5XX. West Country (Shepton Mallet): Kattowitz, talk in English by Prof. R. Dyboski: "Poland Past and Present." Pip (Stoke): WL wrong; your details tally with the cabaret programme from Hamburg. Sandy's Three (Clacton-on-Sea): Yes, Barcelona (EAJ1) relaying from the Teatro del Liceo. Bellasis (Goring): PTT Rennes, relaying concert from the Amphitheatre de la Sorbonne, via PTT Paris. Pop (Grimsby): Moscow Comintern (RDW). E. S. (Goole): This was Breslau, revue: *Hallo! the Earth* (also gramophone records). Visong (Hanwell): Kalundborg, relaying afternoon concert from Copenhagen. O. V. 2 (Tatley Rise): Leningrad (995 m.). Pentyre (N. Cornwall): (1) Yes, Eiffel Tower; (2) SSW, the B.B.C. experimental transmitter at Chelmsford; (3) PTT Paris. De Tamp (Durham): (1) 7RL, a radio journal's transmitter at Copenhagen, working on 42.12 m.; (2) G. Marcuse, amateur Caterham, Surrey. Call: 2NM; (3) Yes, aerodrome transmissions are on 900 m. Dentist (Lancs.): PTT Lille, relaying from the Lilliana Dance Hall. W. L. (Hartington Road, Southampton): This was a German station, as the National Anthem of that country is played to the melody of the old Austrian hymn (music by Haydn); possibly Leipzig which was the only German station advertised to close at 11 p.m. G.M.T., but cannot confirm as you give no estimate of WL. Starch (London): Kalundborg, relaying from the Holmens Church at Copenhagen. Choral concert by the Copenhagen Male Choir. Ardendale (Birmingham): Frankfurt-on-Main, relaying late concert from Cassel (a lady announcer). Schoolboy (Alderley Edge): (1) Milan (Vigentino), a lady announcer; relay of opera: *The Puritans* (Bellini). This station is now working on about 549 m.; (2) Details are very vague, but possibly Augsburg relaying Munich; (3) Details would tally with Vienna (Rosenhügel); (4) Possibly Cracow relaying Wilno; (5) Königswusterhausen, relaying Berlin. News and weather report, followed by dancing lesson and dance music (Interval signal: metronome); (6) Kalundborg, relaying symphony concert from Copenhagen. Sylvie (Chertsey): 7RL a radio journal's transmitter at Copenhagen working on 42.12 m. Gasite: This was Petit Parisien (Jazz music); announcements are made in English and French. Pat (Hayling Island): Yes, U.S.A. station: WEAF (New York). Kinkin (Salford): Either Cologne, or Münster relaying Cologne, *Der Obersteiger* (Zeller). Chimes are from the studio. The Globe (Kiddermister): Would tally with Hulzen (Holland), on Saturday, March 24, however, we cannot confirm as details were not advertised in programme. Sand (Golders Green): PTT Rennes, relaying PTT Paris. 3 Valver (Nantmoel): (1) Bergen (a relay of foreign stations); (2) Kalundborg; this station frequently relays London and Daventry, but it is not always advertised in the programme. F. J. Noakes (Leicester): Posen (Poland), a lady announcer (gramophone records). Pelluit (High Wycombe): EATH (Vienna). Experimental transmitter working on Mondays and Thursdays at 9.30 p.m. G.M.T. (gramophone records). Fretwork (Ken.): Copenhagen (a relay of foreign stations). Working later than advertised in programme. BM/FKCB (Wood Green): (1) Warsaw, relaying church service from the Cathedral at Posen; (2) Not Motala, regret, cannot trace; (3) Posen relaying symphonic poem, *The Spirits*, from the Philharmonic Hall at Warsaw; (4) PTT Lille, relaying from

the Lilliana Dance Hall; (5) Dresden relaying Leipzig, opera *In the Lower Harbour* (Spinelli); (6) Bruenn, relaying symphony concert from Prague. An outside relay from Pilsen; (7) Kattowitz, talk in English by Prof. R. Dyboski: "Poland Past and Present"; (8) Berne (own concert); (9) Kiel relaying Hamburg; Passion Music; (10) Cassel, relaying symphony concert from Frankfurt-am-Main. 1930/3 (Slough): SSW, B.B.C. experimental transmitter at Chelmsford. Dronny (Walham Green): WL wrong; this was Kattowitz, talk in English by Prof. R. Dyboski: "Poland, Past and Present." J. F. S. (Tidworth): PTT Lille, relaying from the Lilliana Dance Hall. Llandoff: No estimate of WL given; details are too vague, regret, cannot trace. Sparks (Weymouth): WL wrong; Kalundborg, relaying dance music from the Restaurant Nimb at Copenhagen. The Lodge (West Tarring): It is impossible to trace without some estimate of WL; your details are too vague. J. C. (Derry): (1) Not advertised in programmes, but possibly Bergen; (2) Kattowitz (Poland). P. & M. (Hethersett): Kattowitz (Poland), talk in English by Prof. R. Dyboski: "Poland, Past and Present." Filament (Devon): An amateur transmission but cannot trace call sign; Ex Yankee: No French station advertised to work so late; it is very difficult to trace without some estimate of WL; possibly an amateur transmission at that time. V. C. M. (Croydon): PTT Lille, relaying from the Lilliana Dance Hall. Reflex 2 (Wembley): Details are too vague, regret, cannot trace. Waves (Cambus): Motala, relaying cabaret concert from Stockholm. Mills — (Birmingham): GGG, Round Island Lighthouse (Scilly Isles), GGM, Bar Lightship, Skerries, Anglesey. Short Wave (Ware): 3LO (Melbourne) received direct. S. F. 11A (Edinburgh): Madrid (EAJ7), children's hour. A. C. W. (Upper Norwood): Kalundborg, relaying dance music from the Restaurant Nimb at Copenhagen. Chimes are taken from the Town Hall at midnight (11 p.m. G.M.T.). Blackbird (E.1.): An amateur transmission (gramophone records) but cannot trace as you give no call sign. Pante (Wrexham): PTT Lille, relaying from the Lilliana Dance Hall. Desmond (The Bungelow): Posen (Poland) giving dance music until 1 a.m. G.M.T. C. L. M. (Scarborough): (1) Yes, 3LO (Melbourne) received direct; (2) 2XAF (Schenectady) on 31.4 m. Mystified (Walthamstow): 5XX took dance music from the Kit Kat Restaurant until midnight; you apparently received the 2nd harmonic of this station. A. E. B. (Birmingham): (1) WL apparently wrong; Hamburg and its relays were the only German stations advertised to close down at 11.30 p.m. G.M.T.; (2) Possibly a Polish station, but cannot confirm as your estimate of WL is much too vague; (3) Cologne (dancing lesson); (4) Königswusterhausen relaying the last hour of the Six Days' Cycle Races from the Sports Palace at Berlin. Rex (Brixton Hill): Warsaw (a lady announcer). Oriana (Barret): (1) Kattowitz, talk in English by Prof. R. Dyboski: "Poland, Past and Present"; (2) Radio Toulouse. Snowball (Manchester): (1) Possibly U.S.A. station, but cannot say which as you give no estimate of WL; (2) Both Königswusterhausen (relaying from Berlin) and Kalundborg (from the Restaurant Nimb at Copenhagen) were giving dance music at that time. H. W. B. (West Hampstead): PTT Lille, relaying from the Lilliana Dance Hall. Investigateur (Malvern): Munich, relaying concert of Viennese music from Vienna. Munich closed down at 11 p.m. G.M.T., but Vienna was working until past midnight. M. G. J. S. (Palmer's Green): Your details tally with the Hilversum programme. Spirits (Helsburgh): Moscow Comintern (RDW). H. M. W. (Leicester): PTT Lille, relaying from the Lilliana Dance Hall. Skipper (Lowestoft): EATH, experimental transmitter at Vienna (Austria), working on Mondays and Thursdays at 9.30 p.m. G.M.T. (gramophone records). Ardara (Co. Donegal): (1) Vienna, at midnight by St. Stephen's Spire. *A Vision* (Kutschera), see programme in *World-Radio*; (2) San Sebastian (EAJ8); (3) Posen (Poland) dance music until 1 a.m. G.M.T. Himbleton (Nr. Droitwich): An amateur transmission, but cannot trace as you give no call sign. Bonzo (Abergavenny): Barcelona (EAJ1) relaying Madrid (EAJ7), lyric play: *Dolores* (Vives and Quisiant); see programme in *World-Radio*. Peter Wallace (Newcastle-on-Tyne): (1) Either Königswusterhausen, relaying Berlin, or Kalundborg, relaying Copenhagen; both stations were giving dance music at that time; (2) Radio Toulouse, relaying from the Theatre de la Capitale; (3) Details much too vague, regret, cannot trace. W. A. (Liverpool): (1) GGG, Round Island Lighthouse, Scilly Isles; (2) GGM Bar Lightship, Skerries, Anglesey. Roseville (Leeds): 2KD advertised as amateur at Halifax, 5BC advertised as amateur at Elstree (Herts). Dico (St. Helens): (1) Lahtis (Finland) testing on 1525 m.; (2) Quite possibly Bilbao (EAJ9) working on higher WL; (3) Yes, Almeria (EAJ18). Copper (Bushey): Lahtis (Finland) testing on 1525 m. Charleston (Norwich): An amateur transmission but cannot trace as call sign is incomplete. E. T. H. (Bournemouth): (1) Kattowitz, relaying symphony concert from the Philharmonic Hall at Warsaw; details were not advertised in programme; (2) No, this was Hulzen, relaying concert from Helder. G. 2. B. N. D. (Daiston): PTT Lille. BM/YMHE (W.C.1.): Very vague, but possibly Cork (gramophone records). Longendale: Regret, but cannot trace item in any continental programme at that time. E. H. F. (Co. Durham): Kattowitz relaying symphony concert from the Philharmonic Hall at Warsaw. A. B. E. (Cornwall): (1) Lahtis (Finland) testing on 1525 m.; (2) WGY (Schenectady); (3) WJZ (Boundbrook); (4) WBY (Springfield); (5) and (6) Apparently amateur transmissions. Dick (Cheshire): Kattowitz, relaying concert from the Philharmonic Hall at Warsaw. 2 Valver (Edinburgh): Kaiserslautern relaying Munich. Pelluit (High Wycombe): 2 BL (Sydney) on 32.5 m. Etherite (Moit): From the call, this was undoubtedly Milan (Vigentino), apparently altered programme, for this station did not advertise an English lesson on that date. P. T. (Stretford): 5NW amateur transmitter at Dundee. 3 VHV 42: 6JH advertised as amateur at Manchester; regret, but cannot give name. T. G. (Edinburgh): Lahtis (Finland) testing on 1525 m. The Bat (London): Dublin, sketch *The Warden of Galway*. Inventoriar (Hford): Possibly 5NW amateur, Dundee. Sextus (S.W.2.): (1) This is apparently Bilbao (EAJ9) working on higher WL; (2) Posen, giving dance music until 1 a.m. G.M.T.; (3) possibly PTT Lyons relaying PTT Marseilles (relay of foreign stations followed by concert). Rundfunk-sender (Leeds): WGR (Buffalo) New York on 302.8 m.; (2) WPAP (Cliffside, N.J.) on 394.5 m. Wymme (Belfast): (1) WL, too vague, regret, cannot trace; apparently an altered

programme from some station; (2) Kattowitz, relaying from the Philharmonic Hall at Warsaw. H. S. — (Norwich) 5NW amateur at Dundee. Chumpy (Hendon): Cassel, relaying Stuttgart. Popular Russian evening; Russian choirs, etc. 62 Julian Road (West Bridgford): Hamburg, the early morning broadcast of weather and news followed by talk for the housewife (gramophone records in the intervals). Proprietary names must not be used as noms de plume. Sunny Buns (Dundee): 5NW amateur transmitter at Dundee. P. C. V. (Salsbury): Leipzig, Russian Folk Music (Balalaika). Perche (Preston): (a) Langenberg, variety concert; (b) Stuttgart, Russian evening, Russian choirs, etc. L. C. M. 3 Lahtis (Finland) testing on 1,525 m. J. A. (Insch): Lahtis (Finland) testing on 1,525 m. Oliver (Essex): 5NW, amateur transmitter at Dundee. M. O. C.: French station, PTT Justin (Ealing): Yes, Newcastle, Community Song Festival, relayed from the Town Hall. X. Y. Z. (Walton-on-Thames): Yes, Lahtis (Finland) testing on 1,525 m. Amorphous (Taunton, Bergen, French lesson by Mme. Raymond Engum). Maybe (Cardiff): Yes, this was Radio Carthage (Tunis) opening signal, carillon of bells. H. E. Adams (Birmingham): 5NW, amateur transmitter at Dundee. E. L. Clare (S.W.17): We regret, but it is impossible to trace these short-wave transmissions unless the estimate of WL is much more definite. G. Williams (Rock Ferry): You give no estimate of WL but possibly a harmonic of 5XX. Drummer (Maitby): (1) Posen (dance music until 1 a.m. G.M.T.); (2) Posen, relaying concert from the Philharmonic Hall at Warsaw; (3) Hulzen, relaying from the Concert House at Amsterdam; (4) Eiffel Tower, relaying PTT Paris; (5) Cologne, relaying from Düsseldorf, a talk on the painter Albrecht Dürer; (6) Stuttgart, poetry reading, followed by chamber music; (7) Yes, Hamburg; (8) Kattowitz, talk: "Poland Past and Present," by Prof. R. Dyboski; (9) possibly Copenhagen, but cannot confirm, as details are not published in the programme; (10) Münster relaying Cologne (chimes from the studio); (11) yes, this was the opera, *Le Chemineau* (Xavier Leroux), relayed from the Theatre de la Capitole by Radio Toulouse, apparently relayed by some other station but cannot trace; (12) Barcelona (EAJ1). Jeremiah Whatist (Rosville): 5NW, amateur (Dundee). Tooting Tow (S.W.17): PTT Lyons, relaying PTT Paris. Semloh (S.W.16): (1) Stettin, relaying dance music from Berlin; (2) Hanover, relaying concert from the *Georgpalast*. Acorn (Lancs): Rather vague, but possibly Oslo (cabaret). L. Etherite (Blackheath): (1) Yes, this was the WGY (Schenectady) programme, possibly relayed by a European station, but this was not advertised in programmes; (2) WPG (Atlantic City). Waved (Manor Way, Purley): Yes, WGY (Schenectady) received direct. D. G. C. (Bathgate): Lahtis (Finland) testing on 1,525 m. Qualitour 4 (Surrey): Clock and chimes from Hilversum. Dutch time is twenty minutes in advance of G.M.T. Fretwork (West Ken.): Yes, Montpellier (own programme) not relaying PTT Paris. Merioneth: Regret, cannot trace, as call sign is apparently incomplete. Lad, Enthusiast (Rickmansworth): (1) AFE (Döberitz) on 105 m.; (2) Breslau (gramophone records) working later than advertised in programmes. Brython (Cardiff): (1) PTT Lyons, relaying PTT Paris; opera, *The Barber of Seville* (Rossini); (2) PTT Lille, relay of the celebrations of the Association des Anciens Elèves des Ecoles des Arts et Métiers. See programme in *World-Radio*; (3) WL, apparently wrong; Frelburg, which was relaying the programme of the Five Microphones from Stuttgart; see programme in *World-Radio*. Jayseef (Birmingham): An American official transatlantic telephony transmitter. Cymro (Wales): *Kybenhavn Radiofonistation*, Copenhagen, Denmark. Azo (Manchester): Daberitz (67.65 m.) relaying talk given from the Munich station by Dr. Kurt von Boeckmann, on the occasion of the fifth anniversary of the Munich broadcasting station. Tri Valve (Wye): Breslau (gramophone records). Andrach (Leicester): Details are too vague, regret, cannot trace; apparently an amateur transmitter. T. H. M. J. (Birmingham): Breslau (gramophone records). Night Hawk 5 (Cannington): (1) This was the WGY (Schenectady) programme, apparently relayed by some European station, but cannot trace in programmes; (2) cannot trace call sign 6CH as amateur at Newport. H. E. Pitt (Holmdene): Kalundborg, relaying Copenhagen (a relay of foreign stations); see programme in *World-Radio*. Alphonus (Milkenny): (1) Yes, this was Moscow Comintern (RDW) special news bulletins broadcast slowly in order to allow of transcription; (2) possibly, PTT Lille, but cannot confirm as your estimate of WL is too vague. C. E. J. (Northampton): Kattowitz, talk in English: "Poland, Past and Present," by Prof. R. Dyboski. R. A. A. (Rochester): 5NW, amateur transmitter at Dundee. Ad Astra (Surrey): This was the WGY (Schenectady) programme, apparently relayed by some European station, but cannot trace in programmes. Trevonia 7511: WL wrong; this was Lahti (Finland) testing on 1,525 m.

NOTE.—Those who wish to take advantage of our free service by means of these columns must give a NOM DE PLUME, in addition to their own name and address. PROPRIETARY TRADE NAMES MUST NOT BE USED AS NOMS DE PLUME.

WORLD-RADIO (No. 141)

For replies to questions concerning the identity of stations heard, this coupon should be cut out and forwarded, together with particulars, written on a separate sheet of paper, to Editor, *World-Radio*, Savoy Hill, London, W.C.

Particulars should include: Date and time, approximate frequency (or wavelength), call (if heard), fading or not, signal strength, and details of programme. N.B.—Each inquiry must be accompanied by a separate coupon.

The Alternative Postal Service.

Whilst retaining in *World-Radio* the usual free published service of "Which Station Was That?" we have instituted a paid postal service, which enables a reply to be posted within forty-eight hours of receipt of details and a stamped addressed envelope. Each enquiry must be accompanied by a coupon, and 6d. in stamps or P.O.

(5XX) (1604.3 metres : 187 kc.)

DAVENTRY PROGRAMME

(April 8-14) (25 kw.)

SUNDAY

- 10.15 a.m.—Time Signal (Greenwich), Weather Forecast.
10.30-11.15 a.m.—Mattins. From York Minster. Address by the Lord Archbishop of York.
3.30 p.m.—A Military Band Concert. Enid Cruickshank (Contralto), Hubert Eisdell (Tenor), The Wireless Military Band (conducted by B. Walton O'Donnell).

MONDAY

- 10.15 a.m.—A Short Religious Service.
10.30 a.m.—Time Signal (Greenwich), Weather Forecast.
11.0 a.m.—Gramophone Records
12 noon—A Ballad Concert: Molly Iverson (Soprano), Ernest Auty (Tenor).

TUESDAY

- 10.15 a.m.—A Short Religious Service,
10.30 a.m.—Time Signal (Greenwich), Weather Forecast.
11.0 a.m.—Gramophone Records.
12.0 noon.—Light Music: The Audrey Ford Trio, Evelyn Bryan (Mezzo-Soprano).

- 4.0 p.m.—William Hodgson's Marble Arch Pavilion Orchestra, from the Marble Arch Pavilion.
5.0 p.m.—Mr. Gerald Brennan: "Holidays Abroad—Spain, II."
5.15 p.m.—The Children's Hour.
6.0 p.m.—A Recital of Gramophone Records, arranged by Mr. Christopher Stone.

WEDNESDAY

- 10.15 a.m.—A Short Religious Service.
10.30 a.m.—Time Signal (Greenwich), Weather Forecast.
11.0 a.m.—Gramophone Records.
12.0 noon.—A Ballad Concert: Winifred Brady (Mezzo-soprano), W. E. Turner (Tenor).

THURSDAY

- 10.15 a.m.—A Short Religious Service.
10.30 a.m.—Time Signal (Greenwich), Weather Forecast.
11.0 a.m.—Gramophone Records.
12.0 noon.—Light Music: The Anglo-Viennese Octet, Gertrude Wolfe (Mezzo-Soprano).

FRIDAY

- 10.15 a.m.—A Short Religious Service.
10.30 a.m.—Time Signal (Greenwich) and Weather Forecast.
11.0 a.m.—Gramophone Records.
12.0 noon.—A Sonata Recital, Peggy Cochrane (Violin), John Pauer (Pianoforte).

- General News Bulletin and Road Report.
9.20 p.m.—National Symphony Concert (Continued). Johanne Stockmarr and Orchestra: Concerto in A minor (Grieg).
9.50 p.m.—Orchestra: Suite in F sharp minor (Dohnanyi): (1) Variations, (2) Scherzo, (3) Romance, (4) Rondo; Graceful Waltz (German), Song of the Rhine Daughters (from "The Dusk of the Gods") (Wagner).

SATURDAY

- 10.15 a.m.—A Short Religious Service.
10.30 a.m.—Time Signal (Greenwich) and Weather Forecast.
1.0-2.0 p.m.—The Carlton Hotel Octet. Directed by Renee Tapponnier, from the Carlton Hotel.
3.30 p.m.—The Ernest Leggett London Octet. Dorothy Phillips (Soprano).

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THURSDAY

- 3.0 p.m.—A Symphony Concert. Relayed from the Winter Gardens, Bournemouth: Gordon Bryan (Pianoforte), The Bournemouth Municipal Symphony Orchestra (50 Performers), conducted by Mr. William Walton and Sir Dan Godfrey.
4.30 p.m.—Lozells Picture House Orchestra: Conducted by Paul Rimmer. Frederick Stephenson (Tenor), Frank Newman (Organ).

- the Season. Relayed from the Assembly Room, City Hall, Cardiff. Part I: Conducted by Sir Henry Wood. Orchestra: Overture to "Benvenuto Cellini" (Berlioz). Parry Jones (Tenor); Lohengrin's Narration (Wagner). Orchestra: Symphony No. 35, in D ("Haffner") (Mozart). Marie Wilson (Violin): Concerto No. 1, in G Minor (Bruch). Orchestra: Song of the Rhine Maidens ("The Dusk of the Gods") (Wagner).
9.0 p.m.—An Instrumental Concert: Dagny Solheim (Pianoforte), Arnold Trovell (Violoncello), Alberto Volonino (Tenor).

FRIDAY

- 3.0 p.m.—An Organ Recital. By Stanley Blizzard, Organist and Director of the Choir, St. Barnabas, Clapham Common. Relayed from St. Mary-le-Bow Church. Anne Liddell (Contralto).
4.0 p.m.—Dance Music. The B.B.C. Dance Orchestra, personally conducted by Jack Payne. Sidney Turner (Banjo).
5.45 p.m.—The Children's Hour. (From Birmingham.)
6.30 p.m.—Time Signal (Greenwich), Weather Forecast, First General News Bulletin.

SATURDAY

- 3.30 p.m.—Vaudeville (from Birmingham): Johnson Brothers and Greenop (Syncopated Harmony), Grace Ivell and Vivien Worth (Entertainers at the Piano), Tommy Handley (the Wireless Comedian), Cyril Shields (in Magic and Humour), Philip Brown's Dominoes Dance Band.
4.30 p.m.—Thé Dansant (From Birmingham.) Philip Brown's Dominoes Dance Band. Gwen Mawdesley (Light Songs).
5.45 p.m.—The Children's Hour. (From Birmingham.)
6.30 p.m.—Time Signal (Greenwich), Weather Forecast, First General News Bulletin.

DAVENTRY (EXPERIMENTAL) PROGRAMME

(5 GB) (491.8 metres : 610 kc.) (25 kw.) (April 8-14)

SUNDAY

- 10.30-11.15 a.m.—*Mattins*. (From York Minster.) (See 5XX.)
- 3.30 p.m.—*A Symphony Concert*. (From Birmingham.) The Birmingham Studio Augmented Orchestra (Leader, Frank Cantell), conducted by Joseph Lewis.
- 5.0 p.m.—*Bach Cantata No. 15*: "Denn du wirst meine Seele nicht in der Hölle lassen" ("Thou wilt not leave my soul in Hell"). Alice Moxon (Soprano), Esther Coleman (Contralto), Percy Manchester (Tenor), Stuart Robertson (Bass), The Wireless Chorus and the Wireless Orchestra, conducted by Stanford Robinson.
- 5.20-5.30 p.m.—*Foundations of English Poetry*. (See 5XX.)
- 6.30-7.45 p.m.—*A Religious Service*, relayed from the Cathedral, Birmingham. Address by the Rt. Rev. Dr. Bishop Hamilton Baynes. Organ Voluntarys by Mr. F. Dunnill (Organist and Choir Master).
- 8.0 p.m.—*A Hymn Recital*. (From Birmingham.) The Birmingham Studio Chorus, led by Joseph Lewis.
- 8.45 p.m.—*The Week's Good Cause*. (From Birmingham): Appeal on behalf of the National Association for the Prevention of Tuberculosis, by Sir John Robertson.
- 8.50 p.m.—Weather Forecast, General News Bulletin.
- 9.0 p.m.—*A Military Band Programme*. (From Birmingham.) The City of Birmingham Police Band, conducted by Richard Wassell: March, "Pomp and Circumstance," No. 4 (Elgar, arr. Retford), Overture to "The Merry Wives of Windsor" (Nicolai, arr. Godfrey).
- 9.20 p.m.—*Florence Holding* (Soprano): Over the land is April (Quilter), All suddenly the wind comes soft (Burr), Spring (Henschel). Band: Gavotte from "Mignon" (Ambrose Thomas, arr. Rogan).
- 9.35 p.m.—*Beatrice Evelyn* (Violoncello): Ave Maria (Bruch).
- 9.43 p.m.—Band: Selection from "The Prodigal Child" (Wormser, arr. Winterbottom), Cornet Solo—"Abide with me" (Liddle); Soloist, P.C. Cook.
- 10.0 p.m.—*Florence Holding*: I love thee (Grieg), Songs my Mother taught me (Dvorák), Nymphs and Fauns (Bemberg). Beatrice Evelyn: Air in B (Old Irish) (arr. Hughes), Drink to me only with thine eyes (arr. Squire), Suo Gan (Old Welsh Lullaby) (arr. Harold Scott).
- 10.20 p.m.—Band: Suite of Folk Songs (Vaughan Williams)—Seventeen come Sunday, Intermezzo "My Bonny Boy," Folk Songs from Somerset.
- 10.30 p.m.—*Epilogue*.

MONDAY

- 3.0 p.m.—*Dance Music*, The B.B.C. Dance Orchestra, personally conducted by Jack Payne. Patricia Rossborough and Ivor Dennis (Syncopation).
- 4.0 p.m.—*Lozells Picture House Organ*. (From Birmingham.) Frank Newman (Organ). Agatha Hughes (Soprano).
- 5.0 p.m.—*A Ballad Concert*. Annie Rees (Soprano), Frederick Taylor (Baritone), Cecil Baumer (Pianoforte).
- 5.45 p.m.—*The Children's Hour*. (From Birmingham.)
- 6.30 p.m.—Time Signal (Greenwich), Weather Forecast, First General News Bulletin.
- 6.45 p.m.—*Light Music*. Dorothy Smithard (Contralto), Henry Wendon (Tenor), Corelli Windett's Band.
- 8.0 p.m.—*Chamber Music*. (From Birmingham.) The Birmingham String Orchestra, conducted by Joseph Lewis. Serenade (Elgar). Variations on "The Vicar of Bray" (Ernest Austin).
- 8.30 p.m.—*Herbert Heyner* (Baritone): I heard of late; A pretty, pretty Duck (Bartlett, 1606, arr. Keel).
- Have you seen but a whyte lillie grow? (Anon, 1614, arr. Dolmetzsch). Shall a frown or an angry eye? (Corkine, 1610). Who is Sylvia? (Leveridge).
- 8.42 p.m.—*Orchestra*. Pastoral and Bourrée (Wall), Toccata, Air, Minuet, Jig (Scarlati, arr. Esposito) Canzone Francese (French Song) (Pasquini).
- 9.5 p.m.—*Herbert Heyner*: Four Songs from the Greek Anthology (Millar Craig): The First Kiss, Love's Garland, To the World's End, Love in Spring. The Shepherdess (Atkins), Good Ale (Warlock). Orchestra: Slow Movement from Concerto Grosso in B minor (Handel), Lady Radnor's Suite (Hubert Parry); Prelude, Allemande, Sarabande, Bourrée, Minuet Gigue.
- 9.30 p.m.—*"Out of the Shadows"* (From Birmingham). A Psychic Mystery Play by David Hawkes produced by Stuart Vinden. Mrs. Margery Sands, a Widow (Gladys Ward); Major Victor Rowe (William Hughes); Miss Amelia Tutt, a Spinster (Maud Gill); Mr. Kay, a Psychic Medium (Stuart Vinden); Jane, a Maid (Grace Walton). A Sitting-room in Suburbia on a December evening.
- 10.0 p.m.—Weather Forecast, Second General News Bulletin.
- 10.15 p.m.—*Dance Music*, Kettner's Five, under the direction of Geoffrey Gelder, from Kettner's Restaurant.
- 11.0-11.15 p.m.—*Teddy Brown's Band*, and The Melodians, directed by Jack Vernon, from the Café de Paris.
- H.M. Royal Artillery (Mounted), conducted by T. J. Hillier. Walter Glynn (Tenor). Myra B. Johnson (Entertainer).
- 5.45 p.m.—*The Children's Hour* (From Birmingham).
- 6.30 p.m.—Time Signal (Greenwich), Weather Forecast, First General News Bulletin.
- 6.45 p.m.—*Dance Music*: The B.B.C. Dance Orchestra, personally conducted by Jack Payne and Frank Staff (Comedian).
- 7.45 p.m.—*"Lord Jim"*. A Romantic Radio Story-Play, taken from the novel by Joseph Conrad, by Cecil Lewis: Captain Marlow (Harcourt Williams), Jim (John Gielgud), Skipper of the *Patna* (Hector Abbas), George (Herbert Lugg), Brown (Chief Engineer of the *Patna*) (H. St. Barbe West), Eggstrom (Eric Cowley), Stanton, O'Brien (Ship's Captains) (George Ide, Ronald Hammond), Stein (Gilbert Heron), Jewel (Lilian Harrison), Cornelius (Philip Wade), Doramin (Ruler of the Malays) (Leslie Perrins), Dain Waris (his son) (Cyril Nash), Tamb Itam (Jim's Servant) (Eric Lugg), A Yankee (George Ide), Kassim (Walter Hudd), Muda (A Carlow Grand), Haji Saman (Eric Cowley), Woman (Helen Leeman), Native Seamen, Servants and Women. Incidental Music played by the Gershon Parkington Quintet. The Story is divided into Three Parts.
- 10.0 p.m.—Weather Forecast, Second General News Bulletin.
- 10.15-11.15 p.m.—*A Ravel Concert*: Claire Croiza (Soprano), The Wireless-Symphony Orchestra (Leader, H. Kneale Kelley). Conducted by Percy Pitt. Orchestra: Valse Nobles et Sentimentales (Noble and Sentimental Waltzes), Pavane pour une Infante defunte (Pavine for a dead Princess).
- 10.35 *Claire Croiza*: Trois Chansons Madecasses (Three Madagascan Songs) (for Voice, Flute, Violoncello and Pianoforte).

TUESDAY

- 3.0 p.m.—*Paul Moulder's Rivoli Theatre Orchestra*, from the Rivoli Theatre.
- 4.0 p.m.—*A Military Band Programme*. (From Birmingham.) Relay from the Jephson Gardens, Leamington Spa. The Band of

- 10.45 p.m.—*Orchestra*: Prelude Spinning Wheel Scene, March (from "Mother Goose" Suite).
- 10.55 p.m.—*Claire Croiza*: Cinq Melodies populaires grecques (Five popular Greek Melodies), Chanson de la mariée (The song of the bride), Là bas vers l'église (Down near the church), Quel galant (What a wooer!), Chanson des cueilleuses de lentisques (Song of the mastic-pickers), Tout qui (Very gay).
- 11.5 p.m.—*Orchestra*: Berceuse (Cradle Song), Alborado del Gracioso.

WEDNESDAY

- 3.0 p.m.—*Chamber Music* (from Birmingham): Lucy Vincent (Oboe), The Philharmonic String Quartet: Paul Beard (Violin), Harold Mills (2nd Violin), Frank Venton (Viola), Herbert Stephen (Violoncello).
- 4.0 p.m.—*Dance Music*: The B.B.C. Dance Orchestra, personally conducted by Jack Payne. Patricia Rossborough and Ivor Dennis (Syncopation), Sidney Turner (Banjo Solos).
- 5.45 p.m.—*The Children's Hour* (from Birmingham).
- 6.30 p.m.—Weather Forecast, First General News Bulletin.
- 6.45 p.m.—*Light Music* (from Birmingham): The Birmingham Studio Orchestra, conducted by Frank Cantell. Eileen Andjelkovich (Violin).
- 8.0 p.m.—*Vaudeville*: Florence Smithson, Cyril Lidington (Entertainer), Una O'Connor (Entertainer), Violet Essex and Tucker (the Singing Violinist), The B.B.C. Dance Orchestra, personally conducted by Jack Payne.
- 9.0 p.m.—*A Light Orchestral Programme* (from Birmingham): The Birmingham Studio Orchestra, conducted by Joseph Lewis. Bergitte Blakstad (Contralto).
- 10.0 p.m.—Weather Forecast, Second General News Bulletin.
- (CONTINUED ON PAGE 515.)



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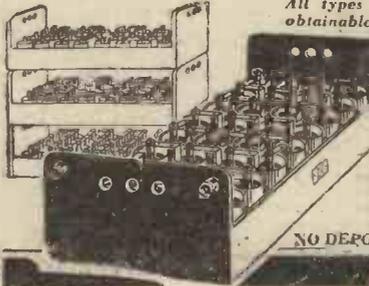
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M.B.

PROGRAMMES FOR SUNDAY (April 8)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME

BARCELONA (Spain)

Radio Barcelona (EAJ1). WL. 344.8 m. (870 kc.); 1.5 kw.
 11.0 a.m.—Chimes from the Cathedral and Weather.
 1.30 p.m.—Variety Concert. Trio Music, Gramophone Selections and Recitations.
 6.0 p.m.—Market Prices.
 6.10 p.m.—Orchestral Selections.
 6.30 p.m.—Tenor Songs.
 7.0 p.m.—Recitations.
 7.20 p.m.—Orchestral Selections. 1. "La Gioconda"—Interlude (Ponchielli). 2. "The Merry Widow"—Selection (Lehar). 3. Petite Marquise—Gavotte (Mey).
 7.50 p.m.—Soprano Song Recital.
 8.20 p.m.—Orchestral Selections. 1. "Mozart"—Overture (Hahn-Mouton). 2. A la fontaine (Charpentier-Mouton).
 8.40 p.m.—Sports Notes.
 9.0 p.m. (approx.)—Close Down.

BERGEN (Norway)

Kringkastingselskap. WL. 369.9 m. (811 kc.); 1.5 kw.
 7.30 p.m.—Soprano Solos: 1. All Souls' Day (Strauss). 2. Cradle Song (Brahms). 3. (a) Du bist die Ruh; (b) Cradle Song; (c) Erlkönig (Schubert).
 8.0 p.m.—Quartet in C minor, No. 4, op. 18 (Beethoven) by the Wireless String Quartet.
 8.30 p.m.—Organ Recital.
 9.0 p.m.—Weather, News and Time.
 9.15 p.m.—Dance Music.
 11.0 p.m. (approx.)—Close Down.

BERLIN (Germany)

Voxhaus. WL. 484.6 m. (619 kc.); 4 kw.
 8.0 a.m.—Morning Recital, followed by Cathedral Chimes.
 10.15 a.m.—Symphony and Choral Concert.
 1.30 p.m.—Talk, "An Easter Morning in Jerusalem."
 3.0 p.m.—Natural History Talk.
 3.30 p.m.—Concert. Relayed from the Hotel Kaiserhof.
 7.0 p.m.—"The Gipsy Baron"—Operetta (Strauss), followed by News.

BERLIN (Germany)

Königswusterhausen. WL. 1,250 m. (240 kc.); 35 kw.
 8.0 a.m.—5.0 p.m.—Programme relayed from Voxhaus, followed by "Talk: Easter Customs."
 7.0 p.m.—Programme relayed from Cologne, followed by News from Voxhaus.

BERNE (Switzerland)

Radio-Berne. WL. 411 m. (730 kc.); 1.5 kw.
 10.0 a.m.—Protestant Address.
 11.0 a.m. (approx.)—Close Down.

BRÜNN (Czecho-Slovakia)

Komarov. WL. 441 m. (680 kc.); 3 kw.
 5.0 p.m.—German Transmission.
 6.0 p.m.—Programme relayed from Prague.
 9.20 p.m.—Dance Music.

BRUSSELS (Belgium)

Radio Belgique. WL. 508.5 m. (590 kc.); 1.5 kw.
 5.0 p.m.—Dance Music, relayed from the St. Sauveur Palais de Danse.
 7.45 p.m.—Radio Chronique.
 8.15 p.m.—Orchestral and Vocal Concert, with Emilio Perea, of the Scala, Milan. 1. "Tannhäuser"—March (Wagner). 2. Romance (Faure). 3. Pavane pur une Infante défunte (Ravel). 4. "Lohengrin"—Tenor Solo (Wagner). 5. "Hérodiade"—Selection (Massenet). 6. Sonatine (Poulenc). 7. Milenka (Blockx). 8. "Lucia di Lammermoor"—Selection (Donizetti). 9. Woodland Sketches (MacDowell). 10. Petite Suite for String Instruments (Olsen). 11. "Yseult" (Pierné). 12. (a) Martinata (Leoncavallo). (b) "Coppélia"—Selection (Delibes).
 10.15 p.m.—News.
 10.30 p.m. (approx.)—Close Down.

COLOGNE (Germany)

Westdeutscher Rundfunk. WL. 283 m. (1060 kc.); 4 kw.
 8.0 a.m.—Morning Recital. 1. Gott hatt Jesu erwecket—for Choir, Soloists, Orchestra, Pianoforte and Organ (Ritter). 2. Pastoral Symphony (Tartini). 3. Address. 4. Choral Selection. 5. Prayer for Mixed Choir and Orchestra (Reiter).

10.0 a.m.—See Langenberg.
 10.25 a.m.—Beethoven Pianoforte Sonata.
 11.5 a.m.—Easter Psalms.
 12 noon—See Langenberg.
 2.55 p.m.—Talk.
 3.30 p.m.—Concert. 1. Easter Overture (Rimsky-Korsakov). 2. Easter—Symphonic Poem (Volbach). 3. Der Schäfer putzte sich zum Tanz (Lassen). 4. Hungarian March from "The Damnation of Faust" (Berlioz).
 5.0 p.m.—See Langenberg.
 6.25 p.m.—Talk on the following play.
 7.0 p.m.—"Faust"—Drama (Goethe) followed by Sports Notes, Concert and Dance Music.
 11.0 p.m. (approx.)—Close Down.

COPENHAGEN (Denmark)

Copenhagen Radio. WL. 337 m. (890 kc.); 1 kw. Relayed by Kalundborg on 1,153.8 m. (260 kc).
 7.30 a.m.—Sacred Music.
 9.0 a.m.—Divine Service.
 12.0 noon.—German Lesson.
 2.30 p.m.—Relayed from Frederiksborg Castle Church.
 4.0 p.m.—Divine Service.
 5.30 p.m.—Children's Corner.
 6.0 p.m.—News and Time.
 6.30 p.m.—Talk, "The Art Exhibition at Charlottenborg."
 7.0 p.m.—Time.
 7.2 p.m.—Concert from the Cathedral. 1. Easter Anthems. 2. Address. 3. Vocal Quartet: (a) Andante (Gretschaninov). (b) Nocturne (Borodin). 4. Liturgy (Tchaikovsky).

CORK (Ireland)

Cork Broadcasting Station (6CK). WL. 400 m. (750 kc.); 1.5 kw.
 8.30 p.m.—Station Quintet.
 8.45 p.m.—Harry Whitehouse (Tenor).
 9.0 p.m.—Organ Recital from St. Fin Barre's Cathedral. Organist, Mr. J. T. Horne, Mus.B., A.R.C.O.
 9.30 p.m.—Isabel Dodds—Songs with Celtic Harp.
 9.45 p.m.—Station Quintet.
 10.0 p.m.—Joyce Sullivan—Pianoforte Solos.
 10.20 p.m.—Isabel Dodds.
 10.35 p.m.—Harry Whitehouse.
 10.44 p.m.—Station Quintet.
 11.0 p.m.—National Anthem and Close Down.

CRACOW (Poland)

Polskie-Radio. WL. 566 m. (530 kc.); 1.5 kw.
 9.15 a.m.—Divine Service from Posen Cathedral.
 11.0 a.m.—Fanfare from Notre Dame.
 3.0 p.m.—Weather.
 3.5 p.m.—Programme from Warsaw.
 4.0 p.m.—Programme from Warsaw.
 7.0 p.m.—Programme from Posen.

DUBLIN (Ireland)

Dublin Broadcasting Station (2RN). WL. 319.1 m. (940 kc.); 1.5 kw.
 8.30—11.0 p.m.—Programme from Cork.

GENEVA (Switzerland)

Radio Geneva. WL. 760 m. (395 kc.); 0.5 kw.
 9.0 a.m.—Divine Service from the Victoria Hall.
 7.15 p.m.—Programme from Lausanne.

HAMBURG (Germany)

Norag (ha, in. Moise). WL. 396 m. (757 kc.); 4 kw. Relayed by Bremen on 272.7 m. (1,100 kc); Hanover, 297 m. (1,010 kc) and Kiel, 278 m. (1,076 kc).
 8.15 a.m.—Morning Recital: 1. Address. 2. Easter Hymn (Palestrina). 3. Ave verum (Mozart). 4. Die Ehre Gottes (Beethoven).
 12.50 p.m.—Talk, "Easter in Jerusalem."
 1.15 p.m.—Concert from Hanover.
 2.30 p.m.—Children's Corner.
 3.0 p.m.—Concert.
 4.55 p.m.—"The Mastersingers"—Opera (Wagner) relayed from the Stadttheater.
 10.0 p.m. (approx.)—Close Down.

HILVERSUM (Holland)

Algemeene Vereeniging Radio-Omroep. WL. 1,060 m. (280.5 kc.); 5 kw.
 7.10 a.m.—Carillon from the Royal Palace, Amsterdam.
 10.10 a.m.—Divine Service.
 12.10 p.m.—Choral Music.
 1.10 p.m.—Chamber Music by the Hadyn Quartet.
 2.40 p.m.—Concert: 1. "Heimkehr aus der Fremde"—Overture (Mendelssohn). 2. International Suite (Tchaikovsky). 3. Cello Solo:

Cantabile (Cui). 4. Three Preludes, Op. 32 (Rachmaninov): (a) In G major; (b) In B minor; (c) In G minor. 5. (a) Persian Dance from "Chovantchina" (Moussorgski); (b) Hindu Song from "Sadko" (Rimsky-Korsakov). 6. Five Preludes Op. 23 (Rachmaninov). 7. Russian Mazurka (Glinka). 8. Rakoczy March (Berlioz). 9. "Mignon"—Overture (Thomas). 10. Selection from "La Juive" (Halévy). 11. Military March (Schubert).
 4.40 p.m.—Pianoforte Recital: Sonata Op. 10, No. 3 (Beethoven).
 5.25 p.m.—Reading.
 5.55 p.m.—Organ Recital with Contralto Solos.
 7.40 p.m.—Time, Weather and News.
 7.50 p.m.—Symphony Concert. 1. "L'Isola Disabita"—Overture (Haydn). 2. Symphony (Bach). 3. Concerto in G minor (Max Bruch). 4. Serenade for strings (Tchaikovsky). 5. "Romeo and Juliet"—Overture (Tchaikovsky).
 10.10 p.m. (approx.)—Close Down.

HUIZEN (Holland)

WL. 1,870 m. (160 kc.); 4 kw.
 8.10 a.m.—Choral Music and Address.
 9.30 a.m.—Divine Service from the Baptist Church at The Hague.
 12.10 p.m.—Trio Concert.
 1.10 p.m.—Religious Address, from the Seminary at Heemstede.
 1.55 p.m.—Concert by the Dutch Vocal Ensemble.
 3.40 p.m.—Programme for Hospitals.
 5.30 p.m.—Divine Service from the Reform Church at Nyverdal.
 7.10 p.m.—Bible Reading.
 7.40 p.m.—Vocal and Instrumental Concert.
 9.40 p.m.—News.
 10.10 p.m.—Epilogue.

EASTER HOLIDAYS

Owing to our normal publishing day coinciding with Good Friday, and the consequent necessity of publishing earlier, many of the more important programmes did not arrive in time to be included in our pages. Because of the intervening holidays, next week's issue will also be subject to a similar shortage of programme material.

KÖNIGSBERG (Germany)

Ostmarken Rundfunk. WL. 130.3 m. (908 kc.); 4 kw. Relayed by Danzig on 272.7 m. (1,100 kc).
 8.0 a.m.—Morning Recital.
 10.0 a.m.—Weather.
 10.15 a.m.—Concert.
 11.55 a.m.—Time and Weather.
 2.0 p.m.—"Traumfahrt in den Osterwald"—Play (Hein).
 3.0 p.m.—Talk, "The Modern Man of War."
 3.30 p.m.—Concert.
 5.0 p.m.—Talk, "East Prussian Boys in Finland."
 5.30 p.m.—Esperanto Lesson.
 6.0 p.m.—Talk, "Easter in Andalusia."
 6.30 p.m.—"Tosca"—Opera (Puccini). Relayed from the East Prussian "Landestheater." Followed by News and Sports Notes.
 9.30 p.m.—Orchestral Concert.
 11.0 p.m. (approx.)—Close Down.

KOVNO (Lithuania)

Radio Kaunas. WL. 2,000 m. (150 kc.); 15 kw.
 4.0 p.m.—Concert: Orchestral Music, Vocal Quartet and Solo; Easter Anthems.
 6.0 p.m.—Time and Weather.
 6.5 p.m. (approx.)—Close Down.

LANGENBERG (Germany)

Westdeutscher Rundfunk. WL. 470 m. (638 kc.); 25 kw. Programme also for Aix-la-Chapelle 401 m. (748 kc); Cologne, 283 m. (1060 kc); and Münster, 303 m. (990 kc).
 8.0 a.m.—Programme from Cologne.
 10.0 a.m.—Talk, "Dürer and Goethe" from Düsseldorf.
 10.25 a.m.—12 noon—Programme from Cologne.
 12 noon—Concert from Münster. 1. Schlaraffenmarsch (Kempter). 2. "Rosamunde" Ballet Music (Schubert). 3. Clarinet Solo from "Louisiana di Montfort" (Bergson). 4. Two Elegies (Grieg). 5. Sixth Hungarian Rhapsody (Ottler-Hoch). 6. "Ocean Pearls" (Ottler-Hoch). 7. Military March.

2.0 p.m.—Chess Talk from Düsseldorf.
 2.30 p.m.—Talk, "The Garden of Gethsemane," from Münster.
 2.55—5 p.m.—Programme from Cologne.
 5.0 p.m.—Sacred Concert from Düsseldorf. 1. Choral Selections. 2. Solos. 3. Choral Selections.
 6.0 p.m.—Reading from Düsseldorf.
 6.25 p.m.—Programme from Cologne.

LAUSANNE (Switzerland)

Société Romande de Radiophonie (HBZ). WL. 680 m. (441 kc); 1.5 kw.
 9.0 a.m.—Divine Service. Relayed from the Victoria Hall, Geneva.
 7.15 p.m.—Sports Notes.
 7.25 p.m.—Divine Service.
 8.0 p.m.—Orchestral Concert. 1. Ave Maria (Schubert). 2. Andante from "The Unfinished Symphony" (Schubert). 3. "Le Déluge"—Prelude (Saint-Saëns). 4. Marche religieuse (Wagner). 5. "Tristan and Isolde"—Prelude (Wagner). 6. "Egmont"—Overture (Beethoven).

MADRID (Spain)

Union Radio (EAJ7). WL. 375 m. (800 kc.); 1.5 kw.
 2.0 p.m.—Orchestral and Vocal Concert.
 3.0 p.m.—Children's Corner.
 3.30 p.m.—Orchestral Selections. 1. "Le petit Duc"—Selections (Vives). 2. "Le Roman d'Elvire"—Selections (Thomas).
 8.0 p.m.—Dance Music. Relayed from the Hotel Nacional.
 Programme relayed by San Sebastian (EAJ8), 335 m. (895 kc).
 10.0 p.m.—Time.
 10.2 p.m.—Concert by the Station Sextet and Marta Reignard (Soprano).
 12.30 a.m. (Monday—approx.)—Close Down.

MILAN (Italy)

Unione Radiofonica Italiana (RMI). WL. 549 m. (546 kc.); 7 kw.
 9.33 a.m.—Concert of Vocal and Instrumental Sacred Music.
 11.30 a.m.—Concert by the Station Quartet.
 12.30 p.m.—Government Report.
 3.0 p.m.—Variety Concert: 1. Soprano Solos: (a) Invito segreto (Strauss); (b) Se come vuoi, pletina (Le Villi); (c) "Da quel giorno che a te mi sono data" from "Luisa" (Charpentier). 2. Baritone Solos with Pianoforte accompaniment: (a) Intermezzo from the Third Act "Mos." (Orfèce); (b) Selection from "The Passion of Christ" (Perosi); (c) Chant d'amour (Paderewski); (d) Célèbre minuette (Paderewski); (e) "Ave Maria" from "Othello" (Verdi); (f) Spring (Greig).
 4.30 p.m.—Children's Corner.
 4.55 p.m.—Forestry Notes and News.
 7.45 p.m.—Time.
 7.47 p.m.—"Rigoletto" Opera (Verdi).
 8.30 p.m. (in the Interval)—Sports Notes.
 9.55 p.m.—News, Sports Notes and Close Down.

MUNICH (Germany)

Deutsche Stunde in Bayern. WL. 535.7 m. (560 kc.); 4 kw. Relayed by Nürnberg on 241.9 m. (1,240 kc); and Augsburg on 566 m. (530 kc).
 6.30 p.m.—Sports Notes.
 6.45 p.m.—Talk on the following Concert.
 7.0 p.m.—Concert. 1. First Movement from the Unfinished Symphony (Schubert). 2. Prelude from "Parsifal" (Wagner). 3. Ballet Music from "Prometheus" (Beethoven). 4. First Movement from the Concerto in F major for Organ (Rinck). 5. "Der Freischütz"—Overture (Wagner). 6. Ave Maria—For String Orchestra Harp and Organ (Schubert). 7. Selection from "Die Toten Augen" (d'Albert). 8. "Flotte Bursche"—Overture (Suppé). 9. Türkische-scharwache (Nicheli). 10. Waltz from "Faust" (Gounod).

NAPLES (Italy)

Unione Radiofonica Italiana (INA). WL. 333.3 m. (900 kc.); 1.5 kw.
 9.0 a.m.—Concert of Sacred Music.
 12 noon.—Government Report.
 3.45 p.m.—Children's Corner.
 4.0 p.m.—Variety Concert: 1. Intermezzo from "Ceneré" (Belli). 2. Dance from "Esmeralda" (Maravilla). 3. Giuri di donna—Soprano solo (Carelli). 4. Visione Indiana—Intermezzo (Montanaro). 5. Serenata all' harem (Andlovitz). 6. Serenata—Soprano solo with pianoforte accompaniment (Schu-

bert). 7. Selection from "Excelsior" (Marenco). 8. "In quelle trine morbide"—Soprano Solo from "Manon Lescaut" (Puccini). 9. Leggenda d'amore—Intermezzo (Becc). 10. Terza serenata abruzzese (de Nardis). 11. "Colà nell'oasi verde"—Soprano Solo from "Dejanice" (Catalani). 12. Tarantella marinara (Lama).

OSLO (Norway)

Kringkastingselskapet. WL. 451.5 m. (650 kc.); 1.5 kw. Relayed by Hamar, on 558.8 m. (540 kc.); Borsgrund, 500 m. (600 kc.); Fredrikstad, 434.8 m. (690 kc.); Nostodden, 411 m. (730 kc.); and Rjukan, 448 m. (670 kc.).
 9.20 a.m.—Carillon and Divine Service.
 3.50 p.m.—Carillon and Divine Service.
 6.15 p.m.—News.
 6.30 p.m.—Swedish Talk and Recitations.
 7.0 p.m.—Time.
 7.2 p.m.—Sacred Songs.
 7.30 p.m.—Orchestral Concert: 1. "Samson"—Overture (Handel). 2. Largo from the Sixth Symphony (Dvorak). 3. Paris angélique (Franck). 4. Danse de feux follets and March from "The Damnation of Faust" (Berlioz).
 8.30 p.m.—Recitation.
 9.0 p.m.—Weather and News.
 9.15 p.m.—Topical Talk.
 9.30 p.m. (approx.)—Close Down.

PARIS (France)

Ecole Supérieure (FPTT). WL. 458 m. (655 kc.); 0.5 kw.
 Transmits at intervals from 8 a.m. to 1.30 p.m.—Concert: 1. Harmonie du Soir (Lazzari). 2. Matin d'Avril (Févet). 3. Valse du Pas des Fleurs (Delibes). 4. Sérénade (Widor).
 2.30 p.m.—Symphony Concert relayed from the "Salle des Fêtes" of Le Journal.
 5.15 p.m.—Pasdeloup Concert relayed from the Théâtre Mogador.
 7.15 p.m.—Radio-Journal de France.
 8.30 p.m.—Talk, "The Infinite."
 9.0 p.m.—Gala Concert from the Works of Mozart and Schumann. Followed by Dance Music from the Coliseum de Paris.
 12.0 midnight (approx.)—Close Down.

PARIS (France)

Eiffel Tower (FL). WL. 2,650 m. (113 kc.); 5 kw.
 7.56 a.m.—Time Signal (on 32 m.; 9,375 kc).
 9.26 a.m.—Time Signal.
 5.45 p.m.—"Le Journal Parlé." Talks on "Health" and "Police Memoirs" followed by Sports Notes.
 7.10 p.m.—Weather.
 7.30 p.m.—Concert. 1. The Three Sultans—Orchestral Suite (Büsser). 2. The Three Sultans—Divertissement (Büsser). 3. Suite bretonne (Cadou). At 7.56 p.m.—Time Signal on 32 m. (9,375 kc).

Programmes for Sunday.—(Cont.)

8.30 p.m.—Educational Programme. 1. Talks on "Law and the Woman" and "Educational Authority." 10.26 p.m.—Time Signal. PARIS (France) Petit Parisien. WL. 340.9 m. (880 kc.); 0.5 kw. 9.0 p.m.—Concert from the Works of Wagner: 1. "Tannhäuser"—Overture. 2. Siegfried Idyll. 3. Prelude to "Parsifal." 4. Murmurs of the Forest. 5. Selection from "Tristan and Isolde." 6. The "Mastersingers"—Selections. 7. "The Valkyrie"—Selection.

PARIS (France) Radio-Paris (CFR). WL. 1,750 m. (171 kc.); 3 kw. 8 a.m.—News. 12 noon.—Religious Address and Concert of Sacred Music. News. 12.45 p.m.—Concert. 1. Printemps victorieux—March (Pesse). 2. En Pensant à Schumann (Fuste). 3. "Les Erynnies"—Suite (Massenet). 4. Pianoforte Solos: (a) Jota—Spanish Dance, (b) L'Horloge d'Unterwalden. 5. (a) Songs by the Popular Singer, "Malloire," (b) Bibboquet in Selections from his Repertory. 6. Selection from "L'Arlésienne" (Bizet). 7. Chinese Spiritual Symphony—Foxtrost (Hedge). 8. La Cathédrale engloutie (Debussy). 9. Exile d'amour (de Bozi). 10. J'adore les femmes (Valsien).

4.30 p.m.—Dance Music. News in the Interval. 7.0 p.m.—Agricultural Report. 8.0 p.m.—News. 8.15 p.m.—"The Radio-Paris Circus" Concert. 1. Parade by "Bilboquet." 2. "Le Cheval Sauter." 3. "L'Arche de Noë." 4. "Retraite." 8.45 p.m.—Dance Music by Mario Cazes and his Orchestra. News in the Interval.

POSEN (Poland) Polskie Radio. WL. 344 m. (872 kc.); 1.5 kw. 6.10 p.m.—Talk, "How Birds of Prey Live in a Large Town." 6.35 p.m.—Talk on Contemporary Writers—"Andre Strug." 7.0 p.m.—Choral Concert.

9.0 p.m.—Time and Variety. 9.30 p.m.—News, Weather and Sport. 9.50 p.m.—Dance Music from the Palais Royal Restaurant.

PITTSBURGH (U.S.A.) Westinghouse Electric (KDKA). WL. 315.6 m. (950 kc.); 50 kw. 10.15 p.m.—KDKA Little Symphony Orchestra, Victor Saudek, Conductor, playing in the lobby of the William Penn Hotel, Pittsburgh. 10.30 p.m.—"Travelogue" from WJZ, New York. 11.0 p.m.—Time. Service of the Calvary Episcopal Church, Pittsburgh; Rev. E. J. Van Etten pastor. 12.15 a.m.—2.0 a.m. (Monday).—Programme from WJZ, New York. Collier's Radio Hour. 1.15 a.m.—Paula Hemminghaus (Contra-alto). 1.30 a.m.—Vibrant Melodies. 1.45 a.m.—Utica Jubilee Singers. 2.0 a.m.—Time and Utica Jubilee Singers. 2.15 a.m.—Don Amaizo.

PRAGUE (Czechoslovakia) Strasnice. WL. 348.9 m. (860 kc); 5 kw. 6.0 p.m.—"The Bartered Bride"—Opera (Smetana)—from the National Theatre. 9.0 p.m.—Time, News and Popular Music.

ROME (Italy) Unione Radiofonica Italiana (IRO). WL. 448.4 m. (669 kc.); 3 kw. 9.15 a.m.—Concert of Vocal and Instrumental Sacred Music. 11.30 a.m.—Government Report. 12.30 p.m.—Trio Concert. 4.0 p.m.—Quartet and Vocal Concert. 5.0 p.m.—Dance Music from the "Casinetta." 6.30 p.m.—Government Report. 7.30 p.m.—Time, Sports Notes, News and Forestry Notes. 7.45 p.m.—"La Bohème" Opera (Puccini). In the First Act—Fashion Talk. 9.55 p.m.—News. 10.0 p.m. (approx.).—Close Down.

SCHENECTADY (U.S.A.) General Electric Company (WGY). WL. 379.5 m. (790 kc); 50 kw.

Relayed by 2 XAD. on 21.90 m. (13661 kc) from 10.30 p.m. 3.0 p.m.—Divine Service from St. Peter's Church. 7.25 p.m.—Eastman Symphony Orchestra, Rochester. 8.0 p.m.—Talk for Men by Dr. S. Parkes Cadman, Y.M.C.A. 9.30 p.m.—"Acousticon" Programme, from New York. 10.0 p.m.—National Symphony Orchestra, from New York. 11.0 p.m.—Musical Programme, from New York. 11.20 p.m. (Monday).—Capitol Theatre Programme. 1.0 a.m.—Talk, "Our Government." 1.15 a.m.—Time. 1.17 a.m.—Atwater Kent Hour, from New York. 2.15 a.m.—"The Biblical Drama," from New York.

STOCKHOLM (Sweden) Radiotjänst (SASA). WL. 453.8m. (661 kc.); 1.5 kw. Relayed by Motala, on 1,380 m. (217 kc); Göteborg, 416.7 m. (720 kc); Malmö, 260.9 m. (1,150 kc); and Sundsvall, 545.6 m. (550 kc). 10.0 a.m.—Divine Service. 1.0 p.m.—Symphony Concert from the Concert House: 1. Symphony in D (Alfvén). 2. Air from "Acis and Galathea" (Handel). 3. Air from "Il re pastore" (Mozart). 4. "La grande Paque russe"—Overture (Rimsky-Korsakov). 4.0 p.m.—Children's Corner. 5.0 p.m.—Divine Service. 6.15 p.m.—"Everyman"—Drama (Hofmannsthal). 8.40 p.m. (approx.).—Close Down.

STUTTART (Germany) Süddeutscher Rundfunk. WL. 380.7 m. (788 kc); 4 kw. 10.15 a.m.—Catholic Morning Recital, followed by Promenade Concert. 3.0 p.m.—"Happy Easter"—Spring Play (Grete Seitz). 5.0 p.m.—Time and Sports Notes. 5.15 p.m.—Talk, "The Dress Rehearsal." 5.45 p.m.—Reading by Dr. Robert Hohlbaum from his own Poems. 6.45 p.m.—Time and Sports Notes. 7.0 p.m.—Folk Songs. 7.30 p.m.—Spring Concert. 1. Symphony in D major (Haydn). 2. Aria from "The Seasons" (Haydn).

3. Scene from the Symphonie pastorale (Beethoven). 4. Der Hirt auf dem Felsen (Schubert). 5. Symphonic Poem from "Mein Vaterland" (Smetana). 6. "Two Songs with Orchestra (Mahler) (a) Wer hat dies Liedlein erdacht? (b) Ich atmet' einen Lindenduft. 7. Good Friday Spell from "Parsifal" (Wagner). 8. In the Spring—Overture (Goldmark). 9. Spring Poems from Goethe, Hölderlin and Mörike. 9.45 p.m.—Sports Notes and News. 10.0 p.m. (approx.).—Close Down.

TORONTO (Canada) Toronto Star (CFCA). WL. 357 m. (840 kc); 0.5 kw. (767 kc.); 3 kw. 4.0 p.m.—Divine Service. 12.0 a.m. (Monday).—Concert by the Waterloo Musical Society Band.

TOULOUSE (France) Radiophonie du Midi. WL. 391 m. (767 kc.); 3 kw. 12.30 p.m.—Musical Selection. 12.45 p.m.—Concert: 1. Paris-Washington—March (Margis). 2. Poème d'amour—Serenade (Smet). 3. Tristesse de Yasmına (Smet). 4. Pianoforte Solo—L'horloge à Grand'mère (Smet). 5. ay si, ay no—Tango (Pizarro). 6. Fête arabe—Fantasia (Smet). 7. The Wind—Foxtrost (Waltham). 8. Lolita—Serenade (Ferret). 9. Promenade en mer—Ballad (Smet). 10. As-tu vu?—One-step (Smet). 2.10 p.m.—Address and Psalms. 8.0 p.m.—Musical Selection—Grisehdis. 8.30 p.m.—Talk, "Lamalou-les-Bains." 9.45 p.m.—Opera Relay from the Capitol Theatre.

VIENNA (Austria) Radio-Wien. WL. 576 and 517.2 m. (520 and 580 kc.); 0.75 and 5 kw. Relayed by Innsbruck on 294.1 m. (1,020 kc.); and Klagenfurt on 272.7 m. (1,100 kc.). 9.15 a.m.—Choral Concert. 10.0 a.m.—Concert by the Vienna Symphony Orchestra: 1. "Lohengrin"—Prelude (Wagner). 2. Fantasia for Pianoforte and Orchestra, (Debussy). 3. "Waldweben" from "Siegfried" (Wagner). 4. Concerto for Cello (Dvorak). 5. Die Ideale—Symphonic Poem (Liszt).

2.30 p.m.—Concert: 1. Jubel-Fest-Marsch (J. Strauss). 2. "Oberon"—Overture (Weber). 3. Violin Solos: (a) Serenata (Toselli); (b) Guitarrere (Drdla). 4. "Gounodiana" (Rhode). 5. Wild Roses—Waltz (Ganglbberger). 6. Serenade (Grünfeld). 7. Im Mai—Song (Vogel). 8. Wiener Lieder—Potpourri (Komzák). 9. Deutsch-Osterreich—March (Pauspertl). 4.20 p.m.—Variety. 4.50 p.m.—Chamber Music by the "Mildner" Quartet. 5.35 p.m.—Reading. 6.45 p.m.—"Das Schwalbennest." Old Viennese Musical Play (Granchichstaeden), followed by "Dance Music from the Hotel Bristol.

WARSAW (Poland) Polskie-Radio. WL. 1,111.1 m. (270 kc.); 10 kw. 9.15 a.m.—Divine Service relayed from the Posen Cathedral. 3.0 p.m.—Weather. 3.5 p.m.—Children's Corner. 4.0 p.m.—"The Mysteries of the Passion and Resurrection of Our Lord Jesus Christ"—Text and Melodies after popular Melodies of the 12th and 13th Centuries (Leon Schiller). Choral and Solo Music. 7.0 p.m.—Programme from Posen.

WILNO (Poland) Polskie-Radio. WL. 435 m. (689 kc.); 0.5 kw. 9.15 a.m.—Divine Service from the Cathedral. 11.0 a.m.—Programme relayed from Warsaw. 5.10 p.m.—Talk in Lithuanian. 5.35 p.m.—Literary Talk. 6.0 p.m.—News. 6.25 p.m.—Time and Variety. 6.35 p.m.—Talk, "Easter Customs." 7.30 p.m.—Programme relayed from Warsaw. 9.0 p.m.—News. 9.30 p.m.—Dance Music. 10.30 p.m. (approx.).—Close Down.

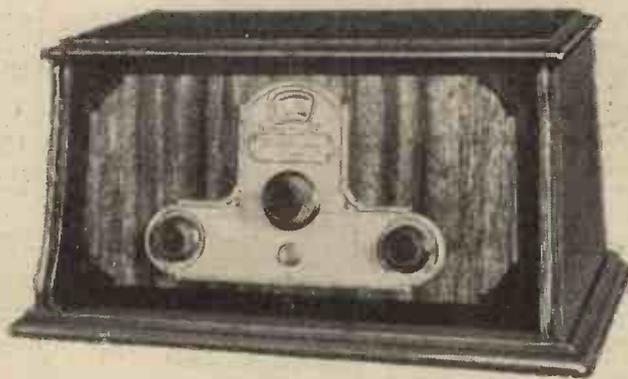
ZURICH (Switzerland) Radio-Genossenschaft. WL. 588.2 m. (510 kc); 2 kw. 9.30 a.m.—Catholic Address. 10.0 a.m.—Orchestral Concert. 6.30 p.m.—Protestant Address. 7.0 p.m.—Easter Concert of "Cello Music. 7.40 p.m.—Orchestral Concert. 9.0 p.m.—Weather and News. 9.10 p.m. (approx.).—Close Down.

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PROGRAMMES FOR MONDAY (April 9)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME

BARCELONA (Spain) Radio Barcelona (E.A.J.). WL 344.8 m. (870 kc); 1.5 kw. Transmits at intervals from 11.0 a.m. 7.20 p.m.—Orchestral Selections. 1. "La Bayadere"—Selections (Kalmann). 2. Rondo pastoral (Tavan). 3. Ma foi tant pis—Slow Waltz (Worsley). 7.50 p.m.—Tenor Song Recital. 8.20 p.m.—Orchestral Selections. 1. Fantasia on popular Catalonian Themes (Sancho-Marraco). 2. "Zampa"—Overture (Hérbold). 8.40 p.m.—Sports Notes. 9.0 p.m.—Chimes from the Cathedral and Weather. 9.5 p.m. (approx.)—Close Down.

BASLE (Switzerland) Basler-Radio-Genossenschaft. WL 1,000 m. (300 kc); 0.25 kw. 6.30 p.m.—Programme from Berne. 7.0 p.m.—Cello and Pianoforte Recital from the Works of Schubert, van Goëns, Popper, Rubinstein and Tchaikovsky. 8.20 p.m.—Programme from Berne. 8.50 p.m. (approx.)—News and Weather. 9.5 p.m. (approx.)—Close Down.

BERGEN (Norway) Kringkastingselskap. WL 369.9 m. (811 kc); 1.5 kw. 9.30 a.m.—Divine Service. 11.30 a.m.—Weather and News. 5.0 p.m.—Divine Service. 7.0 p.m.—The Wireless Orchestra. 1. Songs Without Words (Tchaikovsky). 2. Andante cantabile (Tchaikovsky). 3. Fantasia (Haydn). 7.30 p.m.—Talk, "Peter Dass, the Poet." 8.0 p.m.—Programme from Oslo. 8.30 p.m.—The Wireless Orchestra. 1. Entry March of the Bojards (Halvorsen). 2. Air con variazioni (Halvorsen). 3. Scandinavian Potpourri (Bernards). 9.0 p.m.—Weather, News and Time. 9.15 p.m.—Dance Music. 11.0 p.m. (approx.)—Close Down.

BERLIN (Germany) Königswusterhausen. WL 1,250 m. (240 kc); 35 kw. 8.0 a.m.—3.0 p.m.—Programme relayed from Voxhaus. 6.30 p.m.—"Rund um die Liebe"—Operetta in Three Acts (Oscar Strauss). Relayed from Dresden. Followed by programme from Voxhaus. 11.0 p.m. (approx.)—Close Down.

BERLIN (Germany) Voxhaus. WL 484.6 m. (610 kc); 4 kw. 8.0 a.m.—Morning Recital, followed by Cathedral Chimes. 10.30 a.m.—Concert of Spring Serenades. 1.30 p.m.—Agricultural Talks. 3.20 p.m.—The Karlshorst Easter Race. Relayed from the Running Course in Karlshorst. 4.50 p.m.—Concert of Orchestral and Flute Selections. 6.30 p.m.—Talks. 7.30 p.m.—Concert. 9.30 p.m.—Dance Music. 11.30 p.m. (approx.)—Close Down.

BERNE (Switzerland) Radio-Berne. WL 411 m. (730 kc); 1.5 kw. 2.30 p.m.—The Kursaal Orchestra. 6.30 p.m.—Time and Weather. 6.35 p.m.—Talk, "Dostoevski's 'Philosophy'." 7.0 p.m.—Violin Recital. 7.30 p.m.—The Kursaal Orchestra. 8.0 p.m.—Violin Recital. 8.20 p.m.—The Kursaal Orchestra. 8.50 p.m.—News and Weather. 9.5 p.m.—The Kursaal Orchestra. 9.30 p.m. (approx.)—Close Down.

BRATISLAVA (Czechoslovakia) Radió-Bratislava. WL 300 m. (1,000 kc); 0.5 kw. 4.30 p.m.—Trio, Op. 107 (Bossi). 5.0 p.m.—Reading. 6.0 p.m.—Programme relayed from Brno. 9.0 p.m.—Programme relayed from Prague.

BRÜNN (Czechoslovakia) Komarov. WL 441 m. (680 kc); 3 kw. Transmits at intervals from 11.15 a.m. 5.0 p.m.—Time, followed by German Transmission. 5.25 p.m.—Talk and Recitations.

6.0 p.m.—"Der Orlov"—Operetta (Granichtaedchen). Relayed from the National Theatre. 9.0 p.m.—Programme relayed from Prague.

BRUSSELS (Belgium) Radió Belgique. WL 508.5 m. (590 kc); 1.5 kw. 5.0 p.m.—Trio Concert. 7.45 p.m.—Radio Chronique. 8.15 p.m.—Orchestral and Vocal Concert. 1. "Francois les Bas Bleus"—Overture (Messager). 2. Serenade (Titl). 3. La Czarinne-Mazurka (Ganne). 4. Songs: (a) Viux regrets (Dall'Acqua), (b) Les enfants (Massenet). 5. "S.A.R."—Fantasia (Cayll). 6. Impromptu for clarinet (de Boeck). 7. Conte d'avril (Widor). 8. Sylvia—Selections (Delibes). 9. Chanson for oboe (Pierne). 10. "Fedora"—Selection (Giordano). 11. Kol Nidrey—Cello Solo (Bruch). 12. Songs: (a) Palais des Reves (Waller), (b) Persian Melody (Tarnasour), (c) Espana (Chabrier). 13. (a) Myrtha (Radoux), (b) Goodbye (Tosti). 14. Ballet des Héritiques (Levadé). In the interval—Reading from a New Novel. 10.15 p.m.—News. 10.30 p.m. (approx.)—Close Down.

COLOGNE (Germany) Westdeutscher Rundfunk. WL 283 m. (1,060 kc); 4 kw. 8.0—11.0 a.m.—See Langenberg. 11.0 a.m.—Organ Recital from the Exhibition Hall. 12 noon.—Concert: 1. March (Pullem). 2. Carnival Overture (Lortzing). 3. Paraphrase on "Es war eine köstliche Zeit" (Wiedecke). 4. Intermezzo (Jessel). 5. Military March 224 (Haebele). 6. Old Swedish Battle March. 7. "Rigolotto"—Selection. 8. "The Czardas Princess"—Valse (Kalmann). 9. Die Wachtparade kommt (Eilenberg). 10. March (Friedemann). 1.30 p.m.—Literary Talk. 2.0 p.m.—See Langenberg. 2.30 p.m.—Talk for Women. 3.15 p.m.—Literary Talk. 4.15 p.m.—Talk on "The Mastersingers." 4.30 p.m.—"The Mastersingers of Nürnberg"—Opera (Wagner). Relayed from the Cologne Opera House. Followed by Sports News, Concert and Dance Music. 11.0 p.m. (approx.)—Close Down.

COPENHAGEN (Denmark) Copenhagen Radio. WL 337 m. (800 kc); 1 kw. Relayed by Kalundborg on 1,153.8 m. (260 kc). Transmits at intervals from 6.30 p.m. 6.0 p.m.—News. 6.15 p.m.—Time. 6.30 p.m.—Talk on India. 7.2 p.m.—Play, "Three for One" (Bogh), followed by News. 8.15 p.m.—Reading. 8.45 p.m.—Concert of Musical Comedy Selections. 1. "The Waltz Dream"—Overture (Strauss). 2. "The Merry Widow"—Waltz (Lehar). 3. Selection from "Der liebe Augustin" (Fall). 4. "The Circus Princess"—Song (Kalmann). 5. "The Chocolate Soldier"—Song (Strauss). 6. Selection from "La Bayadere" (Kalmann). 7. March from "Eva" (Lehar). 9.45 p.m.—Dance Music from Nimb's Restaurant. 11.0 p.m.—Chimes. 11.30 p.m. (approx.)—Close Down.

CORK (Ireland) Cork Broadcasting Station (6CK). WL 400 m. (750 kc); 1.5 kw. 2.30 p.m.—Weather, Stock Market Report and Gramophone Records. 6.15 p.m.—Programme from Dublin.

CRACOW (Poland) Polskie-Radio. WL 566 m. (530 kc); 1.5 kw. Transmits at intervals from 9.15 a.m. 2.25 p.m.—Choral Concert. 4.20 p.m.—Variety. 6.10 p.m.—Talk, "Easter in Poland." 6.35 p.m.—Talk, "Polish National Hymns." 7.0 p.m.—Faniare from Notre Dame. 7.30 p.m.—Sacred Concert. 1. March from "Parsifal" (Wagner). 2. Godd Friday Spell (Wagner). 3. Finale from "Parsifal 2" (Wagner). 4. (a) The Resurrection of Lazarus, (b) Christ (Perozzi). 9.0 p.m.—Programme from Warsaw. 9.30 p.m.—Concert from a Restaurant. 10.30 p.m. (approx.)—Close Down.

DUBLIN (Ireland) Dublin Broadcasting Station (2RN). WL 319.1 m. (940 kc); 1.5 kw. 6.30 p.m.—Sketches, "Niamh Cinn Oir" (Sean O'Cuiv). 7.0 p.m.—Irish Programme by Army Band. 8.0 p.m.—Recitation of Poems (Patrick Pearse) by May Pitchford. 8.15 p.m.—Pipe Music by Seamus MacAonghusa. 8.30 p.m.—Aine Ni Oisín—Amhrain Ghaolacha. 8.45 p.m.—Gróza's Trio in Irish Dance Music. 9.0 p.m.—Tadhg MacFírbhísigh—Amhrain. 9.15 p.m.—Traditional Irish Fiddle by Padraig Clancy. 9.30 p.m.—Maighread Ni Annagrain—Amhrain. 9.45 p.m.—Flute Selections by P. Collins. 10.0 p.m.—Grogan's Trio. 10.15 p.m.—Eamon MacGearailt—Amhrain. 10.30 p.m.—Weather Forecast and News. 10.30 p.m.—Relay of Ceilidh from Clery's. 11.0 p.m.—Close Down.

GENEVA (Switzerland) Radio Geneva. WL 750 m. (395 kc); 0.5 kw. No Transmission.

HAMBURG (Germany) Norag (ha, in Morse). WL 396 m. (757 kc); 4 kw. Relayed by Bremen on 272.7 m. (1,100 kc); Hanover, 297 m. (1,010 kc); and Kiel, 278 m. (1,076 kc). 4.0 p.m.—Talk, "Wild Animals on Films." 7.0 p.m.—National Concert.

HILVERSUM (Holland) Algemeene Vereeniging Radio-Omroep. WL 1,05 m. (280.5 kc); 5 kw. 9.40 a.m.—Symphony Concert from Amsterdam. 1. "Coriolan"—Overture (Beethoven). 2. Symphony (Beethoven). 3. Second Concerto for Pianoforte and Orchestra (Liszt). 4. "The Mastersingers"—Overture (Wagner). 12.10 p.m.—Trio Concert. 1.40 p.m.—Choral Concert. 1.40 p.m.—Pianoforte Recital. 4.20 p.m.—Children's Corner. 5.40 p.m.—Trio Concert. 7.40 p.m.—Weather and News. 7.50 p.m.—Mozart Concert. 1. "The Marriage of Figaro"—Overture. 2. Symphony in G minor, No. 37. 3. Air from "The Marriage of Figaro." 4. Concerto in E flat major, for Pianoforte. 5. Talk. 6. "Il Seraglio"—Overture. 7. Serenade in E flat major, No. 11, for wind instruments. 8. Air from "Don Juan." 9. Concerto in C minor. 10. Symphony in E flat major, No. 39. 10.40 p.m. (approx.)—Close Down.

HUIZEN (Holland) WL 340.9 m. (880 kc); 4 kw. (until 5.40 p.m.). Transmits from 5.40 p.m. on 1,870 m. (160 kc). 9.30 a.m.—Divine Service from the Reform Church at Leeuwarden. 12.10 p.m.—Organ Recital. 2.40 p.m.—Sacred Concert from the Reform Church at Franeker. "Ehe"—Oratorio (Mendelssohn). 5.40 p.m.—Organ Recital. 7.40 p.m.—Vocal and Organ Concert from the Reform Church at Bennebroek. Talk.

JUAN-LES-PINS (France) Radio L.L. WL 246 m. (1,220 kc); 0.25 kw. 1.0 p.m.—Concert by the Izer Orchestra from the Casino. 1. Aimer Toujours—Waltz (Paradis). 2. Danseuse Egyptienne (Nardinet Blanchet). 3. Gavotte de la Princesse. 4. "The Mute of Portici" (Auber). 5. Je veux mourir (Tosti). 6. (a) The Third Symphony (Beethoven), (b) Scherzo (Beethoven). 7. "Thais"—Meditation (Massenet). 8. Like You (Scotti). 9. "Ariane" (Massenet). News in the interval. 9.0 p.m.—Symphony Concert. 10.0 p.m.—Dance Music from the Casino. 10.30 p.m. (approx.)—Close Down.

KÖNIGSBERG (Germany) Ostmarken Rundfunk. WL 330.3 m. (908 kc); 1 kw. Relayed by Danzig on 272.7 m. (1,100 kc). Transmits at intervals from 8.0 a.m. 2.0 p.m.—Chess Talk. 2.40 p.m.—Talk. 3.10 p.m.—Sports Talk.

3.30 p.m.—Concert. 1. "Der Erlenhügel"—Overture (Kuhla). 2. Selection from "Faust" (Gounod). 3. Accelerationen (Joh. Strauss). 4. Vom Rhein zu Donau (Rhode). 5. Trocadero—March (Neumann). 5.0 p.m.—Wolf Mönke Programme (Danzig only). 5.0 p.m.—Talk, "Heligoland." 5.30 p.m.—Talk, "The Italian Prima Donna and the German Vocalist." 6.10 p.m.—Chess Talk. 7.0 p.m.—Concert. 1. "Das Glockchen des Eremiten"—Overture (Maillart). 2. Fantasia über die Pantomime (Humperdinck). 3. Humorous Selections. 4. Dances phantiques Nos. 1-3 (Karnaucke). 5. Liebesträume (Liszt). 6. Humorous Selections. 7. Valse caprice (Scharwenka). 8. Selection from "Die Puppenfee" (Reyer). 9. Folk Songs to the Lute (Kühne). 10. Venus-Gavotte (Lincke). 11. Germania March (Keil), followed by News and Weather. 9.30 p.m.—Dance Music from Berlin. 9.30 p.m.—Concert and Dance Music (Danzig only).

KOVNO (Lithuania) Radio Kaunas. WL 2,000 m. (150 kc); 15 kw. 5.0 p.m.—Vina Programme. 5.30 p.m.—Health Talk. 6.0 p.m.—Time and Weather. 6.5 p.m.—Concert.

LANGENBERG (Germany) Westdeutscher Rundfunk. WL 470 m. (638 kc); 25 kw. Programme also for Aix-la-Chapelle 401 m. (748 kc); Cologne, 283 m. (1,060 kc); and Münster, 303 m. (990 kc). 8.0 a.m.—Morning Recital from Elberfeld: 1. Choral Selection. 2. Sonata for Oboe and Pianoforte (Handel). 3. Reading Luke 24, 13-35. 4. Song for Contralto and Pianoforte. 5. Sonata (Part II) (Handel). 6. Reading. 7. Motet. 8. Aria for Contralto, Oboe and Pianoforte. 9. Address. 10. Song for Contralto. 11. Choral Selection. 10.0 a.m.—Agricultural Talk from Münster. 10.25 a.m.—"Legends" from Münster. 11.0 a.m.—2.0 p.m.—Programme from Cologne. 2.0 p.m.—Talk, "Between the Atlantic Ocean and the Mississippi" from Dortmund. 2.30—11.0 p.m.—Programme from Cologne.

LAUSANNE (Switzerland) Société Romande de Radiophonie (HB2). WL 680 m. (441 kc); 1.5 kw. Transmits at intervals from 6.45 a.m. 7.0 p.m.—Weather. 7.1 p.m.—Orchestral Concert: 1. Carnival Overture (Lassen). 2. Chanson de Fortunio (Messager). 3. Valse tendre (Gillet). 4. Petite suite: (a) Air italien, (b) Air russe, (c) Air espagnol (Chaminade). 5. Literary Interlude. 6. "Norma"—Overture (Bellini). 7. Lausanne qui rit—March (Dal Monte).

MADRID (Spain) Union Radio (E.A.J.). WL 375 m. (800 kc); 1.5 kw. Transmits at intervals from 11.45 a.m. 7.0 p.m.—Orchestral Selections. 1. "The Rose of Stamboul"—Selection (Fall). 2. Las Bribonas—Selection (Galleja). 3. "Macbeth"—Selection—(Verdi). In the interval: Talk on "Sadness in the Poetry of Gabriel and Galán." 8.0 p.m.—Dance Music. Relayed from the "Alcazar." 9.30 p.m.—French Lesson. 9.45 p.m.—Legal Talk. 10.0 p.m. (approx.)—Close Down.

MUNICH (Germany) Deutsche Stunde in Bayern. WL 535.7 m. (560 kc); 4 kw. Relayed by Nürnberg on 241.9 m. (1,240 kc) and Augsburg on 566 m. (530 kc). Transmits at intervals from 10.15 a.m. 2.0 p.m.—Talk, "The Black Cock." 2.30 p.m.—Concert from St. Jacob's Church, Nürnberg. 4.50 p.m.—Talk, "The Problem of Trans-Atlantic Flights." 4.35 p.m.—Gramophone Concert. 1. Prelude to "L'Après midi d'un faune" (Debussy). 2. Aria from "Tosca" (Puccini). 3. Wasser-spiele (Ravel). 4. Largo (Handel). 5. (a) Vespergesang, (b) Gross'sind die Wogen. 6. La Serenata (Braga). 7. Selection from "Martha" (Flotow). 8. Die Uhr—Ballad (Loewe). 9. Scherzo from the Trio in D minor, Op. 49 (Mendelssohn). 10. The Merry-makers in Spain. 6.0 p.m.—Talk.

6.35 p.m.—Concert. 1. Gut Bayerisch March (Schweiger). 2. Ein gemütlicher Walzer. 3. Lustige Gfäng. 4. A zünftiger Landler. 5. "D'Feuerleir-Übung"—Sketch. 7.30 p.m.—Concert. 1. "Oberon" Overture (Weber). 2. Second and Third Movements from the Concerto in D minor, No. 3 (Bruch). 3. Selections from "Carmen" (Bizet). 4. Arias: (a) Habanera from "Carmen" (Bizet), (b) Radames' Aria from "Aida" (Verdi). 5. Selection from "Hansel and Gretel" (Humperdinck). 6. Andante spinto and Polonaise for Pianoforte and Orchestra (Chopin). 7. Italian Caprice (Tchaikovsky). 9.5 p.m.—News. 9.20 p.m.—Dante Music from the Hotel Reichsadler. 10.30 p.m. (approx.)—Close Down.

OSLO (Norway) Kringkastingselskapet. WL 461.5 m. (650 kc); 1.5 kw. Relayed by Hamar, on 555.8 m. (540 kc), Porsgrund, 500 m. (600 kc); Fredrikstad, 434.8 m. (690 kc); Notodden, 411 m. (730 kc); and Rjukan, 448 m. (670 kc). Transmits at intervals from 9.50 a.m. 4.0 p.m.—Orchestral Concert. 1. Military March (Schubert). 2. Danse des fleurs (Delibes). 3. Good-bye (Tosti). 4. Corona (Barman). 5. Sérénade capricieuse (Ranzato). 6. Selection from "Aida" (Verdi). 4.50 p.m.—Carillon and Divine Service. 6.15 p.m.—News. 6.30 p.m.—Talk, "Easter Customs." 7.0 p.m.—Time. 7.2 p.m.—Sacred Concert from St. Saviour's Church. 1. O Haupt voll Blut und Wunden, for Choir and Organ (Bach). 2. Introit, Requiem and Kyrie (Gounod). 3. Bleib bei uns, for Choir and Organ (Bach). 4. Gloria in Excelsis, for Organ (Max Reger). 8.30 p.m.—Violin Recital. 1. Preludes, Op. 18 (Franck). 2. Kyrie eleison (Andersen). 3. Air from "Elijah" (Mendelssohn). 4. Intrada (Despreux). 5. Variations (Tartini). 6. Nocturne in E flat major (Chopin). 7. Moment musical (Schubert). 8. Chanson hindu (Rimsky-Korsakov). 9. Russian Airs (Wieniawski). 9.0 p.m.—Weather and News. 9.15 p.m.—Topical Talk and Dance Music. 11.0 p.m. (approx.)—Close Down.

PARIS (France) Ecole Supérieure (FPTT). WL 458 m. (655 kc); 0.5 kw. Transmits at intervals from 8.0 a.m. 2.0 p.m.—Concert: 1. Deux Chansons italiennes (Volpatti). 2. Ariette (Pierne). 3. "Hamlet"—Selection (Thomas). 4. Au Matin (Chaminade). 6.0 p.m.—Radio-Journal de France. 8.30 p.m.—Talks. 9.0 p.m.—Concert from the Works of Charpentier. 10.0 p.m.—Running Commentary on the Six Days' Cycle Race. Relayed from the Velodrome d'Hiver.

PARIS (France) Eiffel Tower (FL). WL 2,650 m. (113 kc); 5 kw. 7.56 a.m.—Time Signal, on 32 m. (9,375 kc.). 9.26 a.m.—Time Signal. 5.45 p.m.—"Le Journal Parlé": Talks on "The Theatres of the Week," "Art" and "New Things in Wireless." 7.10 p.m.—Weather. 7.30 p.m.—Dance Music. At 7.56 p.m. Time Signal, on 32 m. (9,375 kc.). 8.30 p.m.—Educational Programme: Talks on "Suicide," "Electricity" and "Television." 10.26 p.m.—Time Signal.

PARIS (France) Radio-Paris (CFR). WL 1,750 m. (171 kc); 3 kw. 8.0 a.m.—News. 10.30 a.m.—News and Musical Selections. 12.30 p.m.—Concert. News in the Interval. 1.50 p.m.—Exchange Quotations. 2.30 p.m.—Exchange Quotations. 3.45 p.m.—Literary and Musical Programme: 1. Serenade (Hollmann). 2. Scherzo espagnol—Pianoforte Solo (Gelos). 3. Talk, "Virgil." 4. La Trirème—Orchestral Selection (Trémisot). 5. Selection from "La Tosca" (Puccini). 4.45 p.m.—Exchange and News. 7.0 p.m.—Agricultural Report. 8.0 p.m.—Exchange and News. 8.20 p.m. (approx.)—Horticultural Talk.

Programmes for Monday.—(Cont.)

8.30 p.m.—Concert: 1. "Louis XI" —Dramatic Selection (Delavigne). 2. Sonata, Op. 5, for Violins, Viola, Cello, Bass Viol and Pianoforte (Corelli). 3. "Pupazzi" for Violins, Viola, Cello and Bass Viol (Schmitt). 4. Melodies, News in the Interval.

PITTSBURGH (U.S.A.)

Westinghouse Electric (KDKA). WL. 315.6 m. (950 kc); 50 kw. 9.0 p.m.—Time, Markets—Livestock, Boston wool, principal cotton markets, and New York, sugar. 10.0 p.m.—Time. 10.10 p.m.—KDKA Theatrical Calendar. 10.15 p.m.—KDKA Little Symphony Orchestra, Victor Saudek conductor. Playing in the lobby of the William Penn Hotel, Pittsburgh. 11.0 p.m.—Eclipse Clippers. 11.30 p.m.—Roxy's Gang from WJZ, New York. 1.0 a.m. (Tuesday)—Riverside Hour from WJZ, New York. 1.30 a.m.—Rise and Shine, from WJZ New York. 2.0 a.m.—"Easter Miracle"—Play (Baird).

POSEN (Poland)

Polskie Radio. WL. 344 m. (872 kc); 1.5 kw. 9.15 a.m.—Divine Service from the Cathedral. 11.10 a.m.—Programme from Warsaw. 4.20 p.m.—Talk. 4.45 p.m.—Concert. 5.45 p.m.—Variety Items. 6.0 p.m.—Talk. 6.15 p.m.—French Lesson. 6.35 p.m.—Talk. 7.30 p.m.—Concert. 9.0 p.m.—Time, and Talk on Wireless Technology. 9.30 p.m.—Variety Items, Weather and News.

PRAGUE (Czechoslovakia)

Strasnice. WL. 348.9 m. (860 kc); 5 kw. Transmits at intervals from 8.0 a.m. 4.50 p.m.—German Transmission. 5.15 p.m.—Agricultural Report. 5.25 p.m.—Talk for Labourers.

6.0 p.m.—Programme relayed from Britain. 9.0 p.m.—Time, News and Gramophone Records.

ROME (Italy)

Unione Radiofonica Italiana (IRO). WL. 448.2 m. (669 kc); 3 kw. 11.30 a.m.—Government Report. 4.32 p.m.—Trio Concert. 1.30 p.m.—Exchange and News. 3.40 p.m.—News and Exchange. 3.50 p.m.—Children's Corner. 4.15 p.m.—Agricultural Report. 4.30 p.m.—Time. 4.42 p.m.—Concert. 6.0 p.m.—Government Report. 7.0 p.m.—French Lesson. 7.30 p.m.—Time, News and Weather. 7.45 p.m.—Concert of Light Music. 1. Arlequinade (Cazaneuve). 2. Tenor Solos: (a) Voce 'e notte (de Curtis), (b) Piccola Liu (Jannone). 3. (a) Pastorale (Trisolini), (b) Rusticanello (Trisolini). 4. Soprano and Tenor Duets: (a) Fior de Havvaia (Anzelmo), (b) Blues del destino (Zucoli). 5. Sotto la mezzaluna—Intermezzo (Siede). 6. Humorous and Satirical Poems in Dialect (Pirriani). 7. My Persian Rosebud—Fox-trot (Nicholls). 8. Serenata a sono de zampogna (Raimondi). 9. Ecchete Roma—Tenor Solo (Palatta). 10. Selection (Trisolini). 11. Soprano and Tenor Duets: (a) Abbiamo scherzato (Anzelmo), (b) Duet from the First Act of "I vagabondi delle stelle" (Rulli). 12. "Durante il ballo"—Sketch (Paileron). 13. Dance Music. 9.55 p.m.—News. 10.0 p.m. (approx.)—Close Down.

SCHENECTADY (U.S.A.)

General Electric Company (WGY). WL. 379.5 m. (790 kc); 50 kw. Relayed by 2XAF on 31.4 m. (9,554 kc) from 10.0 p.m. and 2XAD on 21.96 m. (13,661 kc) from 6—8 p.m. 3.15 p.m.—Radio Household Institute Talk, from New York. 3.55 p.m.—Time and Weather. 4.7 p.m.—"Farm Flashes." 4.43 p.m.—Weather. 6.0 p.m.—French Lesson by Madame Marie Chantemarle. 6.30 p.m.—Clark Johnson and his Orchestra. 10.0 p.m.—Exchange and News.

10.20 p.m.—"U.S. Radio Farm School." 10.30 p.m.—Dinner Music from the Hotel van Curler, Schenectady. 11.30 p.m.—Musical Programme. 12.30 a.m. (Tuesday)—Time. 12.32 a.m.—The following programme from New York: "The A. & P. Gipsies." 1.30 a.m.—General Motors Family Party." 2.30 a.m.—"Fisk"—"Time to Retire Boys." 3.0 a.m. (approx.)—Close Down.

STOCKHOLM (Sweden)

Radiotjänst (SASA). WL. 453.8 m. (661 kc); 1.5 kw. Relayed by Motala on 1,380 m. (217 kc); Göteborg, 416.7 m. (720 kc); Malmö, 260.9 m. (1,150 kc); and Sundsvall, 545.6 m. (550 kc). 10.0 a.m.—Divine Service. 12.30 p.m.—Chamber Music; Quartet in D (Haydn). 12.50 p.m.—Concert by Students, from Malmö. 1.15 p.m.—Cabaret Concert. 2.45 p.m.—A Play from Göteborg. 3.15 p.m.—Band Music. 4.15 p.m.—Children's Corner. 5.15 p.m.—Symphony Concert from Göteborg. 6.0 p.m.—Divine Service. 7.15 p.m.—"Der Zigeunerprimas"—Opera (Kalman). 8.15 p.m.—News and Weather. 8.45 p.m.—Dance Music. 10.30 p.m. (approx.)—Close Down.

STUTTART (Germany)

Süddeutscher Rundfunk. WL. 380.7 m. (788 kc); 4 kw. Transmits at intervals from 11.30 a.m. 3.15 p.m.—Concert. 1. Festival Overture (Lassen). 2. The Awakening of Spring (Bach). 3. Romantische Suite (Armandola). 4. (a) Hab mein Wage voll geide (Ploner), (b) Es wollt' ein Scheider wandern (Kehldorfer), (c) Altes Liebeslied (Hansen). 5. Variations on "Kommt a Vogeli geflogen" (Ochs). 6. Humorous Selection. 7. Melitta (Blon). 8. (a) s' Liesel und i (Kehldorfer), (b) Stilleben (Kirchl), (c) Moderne Gemälde (Kehldorfer). 9. Spring Serenade (Lacombe). 10. Humorous Recitations. 11. The Mill in the Black Forest (Eilenberg). 12. (a) Ich ging einmal spazieren (Süssmuth), (b) Es hatte ein Bauer ein Weib

(Süssmuth), (c) Die Leinewebler (Süssmuth). 13. Greetings afar (Döring). 5.0 p.m.—Time and Weather. 5.15 p.m.—Talk. 5.45 p.m.—Talk, "Travel Sketches from Morocco." 6.15 p.m.—Talk, "Astronomy and Astrology." 6.45 p.m.—Time and Weather. 7.15 p.m.—Cabaret Concert, relayed from Biberach. 1. Hoch Heidecksburg—March (Herzer). 2. Children of Spring (Waldteufel). 3. Greetings of the Guests. 4. (a) Zur Drossel sprach der Fink (d'Albert), (b) Dornröschen (Frommer). 5. (a) Des Kindes Sehnen, (b) Wenn dich die Menschen auch kränken (Arnold). 6. (a) Spring Song (Goltermann), (b) Das Reiterlied (Robitschek). 7. Grave and Gay. 8. (a) Spring Dreams (Kollo), (b) Mädele, ruck, ruck, ruck (Raymond). 9. Ich hab' heut nacht vom Rhein geträumt (Egen). 10. Potpourri from "Paganini" (Lehár). 11. Selection from "The Bird Fancier" (Zeller). 12. (a) Treu sein, das leige mir nicht (Strauss-Kormgold), (b) Wandere mein Herzchen, wadere (Graniestädten). 13. (a) Sag, du zu mir (Stolz), (b) Wann und wo? (Kollo). 14. Humorous Selection. 15. Village Swallows (J. Strauss). 16. "The first violet (Röder). 17. Aufzug der Stadtwache (Jessel). 9.45 p.m.—News. 10.0 p.m. (approx.)—Close Down.

TORONTO (Canada)

Toronto Star (CFCA). WL. 357 m. (840 kc); 0.5 kw. 5.0 p.m.—Weather, News and Exchange. 7.0 p.m.—Chimes from London, England. 9.30 p.m.—Programme from 2LO, London, England. 10.45 p.m.—Exchange. 11.20 p.m.—News and Weather. 12.15 a.m. (Tuesday)—Organ Recital from Pantages Theatre.

WARSAW (Poland)

Polskie Radio. WL. 435 m. (689 kc); 0.5 kw. 9.15 a.m.—Divine Service. Relayed from Posen Cathedral. 11.0 a.m.—Time, Fanfare from the Tower of Notre Dame in Cracow. Aviation Report and Weather.

11.10 a.m.—Chopin Concert: 1. Cello Sonata. 2. Songs: (a) Lithuanian Song, (b) The Ring, (c) Mignonne. 3. Ballade for Piano-forte. 4. Pianoforte Solos: (a) Nocturne, (b) Valse in A Major, (c) Valse in G Sharp Major, (d) Polonaise in F Sharp Major. 1.0 p.m.—Agricultural Talks. 2.0 p.m.—Weather. 2.15 p.m.—Programme relayed from Cracow. 4.20 p.m.—Variety. 6.10 p.m.—Talk. 6.35 p.m.—Talk, "What is Espionage?" 7.0 p.m.—Talk, "China Past and Present." 7.30 p.m.—Concert. 9.0 p.m.—Time, Aviation Report and Weather. 9.5 p.m.—News, Police News and Sports Notes. 9.30 p.m.—Dance Music. 10.30 p.m. (approx.)—Close Down.

WILNO (Poland)

Polskie Radio. WL. 435 m. (689 kc); 0.5 kw. 9.15 a.m.—Programme relayed from Warsaw. 5.10 p.m.—Talk, "How to Read and Listen." 5.35 p.m.—Talk, "How to Appreciate Art Treasures." 6.0 p.m.—News. 6.25 p.m.—Time and Variety. 6.30 p.m.—Talk. 7.0 p.m.—Programme relayed from Warsaw. 9.0 p.m.—News. 9.15 p.m. (approx.)—Close Down.

ZAGREB (Yugoslavia)

Radioklub-Zagreb. WL. 310.5 m. (966 kc); 0.35 kw. 4.0 p.m.—Dance Music from the Club-Bar. 6.15 p.m.—News. 6.30 p.m.—"Die Ozeanfliegerin"—Operetta (Hirski).

ZURICH (Switzerland)

Radio-Genossenschaft. WL. 588.2 m. (510 kc); 2 kw. 12.35 p.m.—Weather and Exchange. 2.0 p.m.—Orchestral Concert. 6.32 p.m.—Orchestral Concert. 7.0 p.m.—Concert of Italian and Spanish Folk Music. 8.0 p.m.—Request Concert. 9.0 p.m.—Weather and News. 9.10 p.m. (approx.)—Close Down.

Advertisement for Brown Loud Speakers. Features a large illustration of a Brown HQ Loud Speaker and a scene of gondolas in Venice. Text includes: "Round the World with the Brown", "The 'Brown' HQ Loud Speaker Price £6", "In the City of Waterways (VENICE)", "SHEER from the waters of the canal, stately palaces raise spire and turret into the waning sunlight. Smoothly the gondola glides and through the stillness comes the sound of music, ringing true and clear across the waters. It is the 'Brown' Loud Speaker, reproducing with its own inimitable realism. All over the world, the perfect realism of the 'Brown' Loud Speaker is enjoyed by those who enjoy good reception. All over the world the standard of Loud Speaker reproduction is set and maintained by the 'Brown.' they listen to the Brown", "The Loud Speaker on which the sun never sets!"

PROGRAMMES FOR TUESDAY (April 10)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME

BARCELONA (Spain)
Radio Barcelona (EAJ1). WL. 344.8 m. (870 kc); 1.5 kw.
Transmits at intervals from 11.0 a.m.
8.40 p.m.—English Lesson.
9.0 p.m.—Chimes from the Cathedral, and Weather.
9.5 p.m.—Exchange and News.
9.10 p.m.—Humorous Review of the Week's Events in verse.
9.20 p.m.—Orchestral Selections. 1. "The Damnation of Faust" — Hungarian March (Berlioz). 2. "Pettit Marino" — Berceuse (Mouton). 3. Introduction and Dance (Vidal). 4. Sarabande (Vidal). 5. Moorish Dance (Vidal). 6. Réverie (Vidal). 7. Pastoral (Vidal).
9.5 p.m.—Programme relayed from Madrid (EAJ7).
10.0 p.m.—Exchange Closing Prices.

BERGEN (Norway)
Kringkastingselskap. WL. 369.9m. (811 kc); 1.5 kw.
Transmits at intervals from 10.15 a.m.
6.30 p.m.—Gardening Talk.
7.0 p.m.—The Wireless Orchestra: 1. "Faust"—Overture (Gounod). 2. Selection from "Manon Lescaut" (Puccini).
7.30 p.m.—Talk, "Poultry Breeding."
8.0 p.m.—Recitations.
8.30 p.m.—Popular Programme by the Hotel Norge's Quartet.
9.0 p.m.—Weather, News and Time.
9.15 p.m.—English Talk by Mr. F. L. M. Somerville.
9.30 p.m. (approx.)—Close Down.

BERLIN (Germany)
Königs-Wusterhausen. WL. 1,250 m. (240 kc); 3.5 kw.
10.35 a.m.—Concert relayed from Voxhaus.
11.0 a.m.—French Lesson for Schools.
1.30 p.m.—Talk on "Spring Flowers," for Children.
2.0 p.m.—Talk, "The Daughter of the House."
2.35 p.m.—Weather and Market Prices.
3.0 p.m.—Talk on "Romanticism."
3.30 p.m.—Philosophy Talk.
4.0 p.m.—Concert relayed from Leipzig.
5.0 p.m.—Technical Talk.
5.30 p.m.—French Lesson.
5.55 p.m.—Talk, "Classical Weimar."
6.30 p.m.—Concert relayed from Munich, followed by News from Voxhaus.

BERLIN (Germany)
Voxhaus. WL. 484.6 m. (619 kc.); 4 kw.
Transmits at intervals from 9.10 a.m.
10.35 a.m.—Orchestral Concert.
11.30 - 6.30 p.m.—Programme of Talks and Music.
7.30 p.m.—Concert.
Followed by News.
9.30 p.m. (approx.)—Close Down.

BERNE (Switzerland)
Radio-Berne. WL. 411 m. (730 kc); 1.5 kw.
12.0 noon.—Time, Weather Exchange, and Gramophone Records.
2.56 p.m.—Time.
3.0 p.m.—The Kursaal Orchestra.
6.30 p.m.—Time and Weather.
6.35 p.m.—Sports Talk, "German and Swiss Football."
6.45 p.m.—Astronomy Talk.
7.15 p.m.—Programme from Lausanne.
8.20 p.m.—The Kursaal Orchestra. News and Weather in the Interval.
9.30 p.m. (approx.)—Close Down.

BREMEN (Germany)
Norg. WL. 272.7 m. (1,100 kc); 0.75 kw.
3.15 p.m.—Mandoline Recital: 1. Italian Songs—Potpourri (Satori). 2. Erinnerung an Ischi (Hladky). 3. Tatjana—Intermezzo (Lindsey-Theimer). 4. Romanesca—Fantasia (Zikoff). 5. Indian Bridal Procession (Siede). 6. San Lorenzo—March (Silva).
7.10 p.m.—Talk, "The Hanso."
6.35 p.m.—Programme from Hamburg.
8.0 p.m.—Concert: 1. Frühling am (Rhein Breu). 2. Sternennacht (Schulken). 3. Der Käfer and die Blume (Veit). 4. Sonnenschein, Sonnenschein (Hansen). 5. Die Mühle im Tale (Messeler). 6. Die Grenadiere (Pütz). 7. Matrosengrab (Sonnet). 8. Vesperhymne (Kaempff). 9. Der Spielmann (Kraemer).

BRUNN (Czechoslovakia)
Komařov. WL. 441 m. (680 kc.); 3 kw.
Transmits at Intervals from 11.15 a.m.

6.40 p.m.—English Lesson.
7.0 p.m.—Concert: 1. Concerto for Cello (Goens). 2. Concerto for Flute (Hoffmann). 3. Concerto for Violin in D major (Mozart).
8.50 p.m.—"The Passing Showers"—Comedy (Bilobin).
8.25 p.m.—Wagner Concert: 1. "Lohengrin"—Overture. 2. "Tannhäuser"—Selections. 3. "The Mastersingers of Nurnberg"—Selections. 4. Siegfried Idyll.
9.0 p.m.—Programme relayed from Prague.

BRUSSELS (Belgium)
Radio Belgique. WL. 508.5 m. (590 kc); 1.5 kw.
5.0 p.m.—Dance Music.
6.0 p.m.—French Lesson.
7.45 p.m.—Radio Chronique.
8.15 p.m.—"La Fille de Madame Angot"—Operetta Selection (Lecocq). In the intervals—Topical Talk and Scientific Talk.
10.15 p.m.—News.
10.30 p.m. (approx.)—Close Down.

COLOGNE (Germany)
Westdeutscher Rundfunk. WL. 283 m. (1,060 kc); 4 kw.
12 (noon)—See Langenberg.
2.50 p.m.—Children's Corner.
3.15 p.m.—Reading.
3.50 p.m.—Education Talk.
4.30 p.m.—Topical Talk.
4.35 p.m.—Talk, "The Doctor as Teacher."
5.0 p.m.—Orchestral Concert. 1. "Leonce and Lena"—Overture (Müller-Hartmann). 2. Violin Solos, (a) Legende (Wieniawsky), (b) Mazurka for Violin and Orchestra (Zarzicky). 3. Piedmonta Suite (Sinigaglia). 4. Chopiniana Suite (Glazounov).
6.15 p.m.—French Lesson.
6.45 p.m.—See Langenberg.
7.15 p.m.—Concert from Dortmund (see Langenberg), followed by relay of Foreign Stations, Sports Notes, and Silent Night.

COPENHAGEN (Denmark)
Copenhagen Radio. WL. 337 m. (890 kc); 1 kw.
Relayed by Kalundborg on 1,153.8 m. (260 kc).
Transmits at intervals from 6.30 a.m.
6.0 p.m.—News, Exchange and Time.
6.30 p.m.—Talk, "Hans Nielsen Hauge."
7.0 p.m.—Concert of Danish Folk Melodies.
8.15 p.m.—"Kranzen"—Comedy.
9.15 p.m.—Modern Danish Music: (a) Foraar, (b) Violen vaagner til Liv, men dor i Kulden, (c) Det bliver Sommer, (d) Humlebien og Sommerfuglen, (e) Trane dans, (f) Blomstervals, (g) Marked falder paa, (h) Flagermusen, (i) Det bliver Efteraar. (Glas). 2. Romance for Violin and Orchestra (Gram). 3. Overture (Riisager).

CORK (Ireland)
Cork Broadcasting Station (6CK). WL. 400 m. (750 kc); 1.5 kw.
2.30 p.m.—Weather, Stock Market Report and Gramophone Records.
6.15 p.m.—Programme from Dublin.

CRACOW (Poland)
Polskie-Radio. WL. 566 m. (530 kc); 1.5 kw.
Transmits at intervals from 11 a.m.
3.40 p.m.—Talk.
4.20 p.m.—Programme from Katowitz.
4.45 p.m.—Programme from Warsaw.
6.5 p.m.—Agricultural Report.
6.15 p.m.—Variety.
6.30 p.m.—Programme from Katowitz.
9.0 p.m.—Programme from Warsaw.
9.30 p.m.—Concert from the Pavillon Restaurant.

DUBLIN (Ireland)
Dublin Broadcasting Station (2RN). WL. 310.1 m. (940 kc); 1.5 kw.
1.30 p.m.—Stock Exchange List, Weather and Gramophone Concert.
6.0 p.m.—Gramophone Concert.
6.15 p.m.—Children's Hour.
7.0 p.m.—Gramophone Concert.
7.20 p.m.—News.
7.30 p.m.—Fainne Talk.
7.45 p.m.—Spanish Lesson by Walter Starkie, LL.D.
8.0 p.m.—Augmented Station Orchestra.
8.25 p.m.—Illustrated Talk, "The Origin of the Feis Ceoil," by Dr. Annie Patterson.
8.55 p.m.—Cello Solos by Kathleen Andrews Follaky.
9.10 p.m.—Topicalities.
10.15 p.m.—Baritone Solos by M. Dunleavy.

10.25 p.m.—Augmented Station Orchestra.
10.30 p.m.—News, Weather Report and Close Down.

GENEVA (Switzerland)
Radio Geneva. WL. 760 m. (395 kc); 0.5 kw.
5.0 p.m.—Gramophone Selections and News.
7.15 p.m.—News and Talk.
7.35 p.m.—Orchestral Concert from the Café du Nord.
8.45 p.m.—News.

HAMBURG (Germany)
Norag (ha, in Morse). WL. 396 m. (757 kc); 4 kw. Relayed by Bremen on 272.7 m. (1,100 kc); Hanover, 297 m. (1,010 kc); and Kiel, 278 m. (1,076 kc).
3.15 p.m.—Recital of Old English Love Songs from the time of Queen Elizabeth (Hamburg and Hanover only).
6.10 p.m.—Talk from Bremen.
6.35 p.m.—Talk, "Chile and the Germans."
7.0 p.m.—Programme from Kiel.
8.0 p.m.—Orchestral Concert from Hanover.

HILVERSUM (Holland)
Algemeene Vereeniging Radio-Omroep. WL. 1069 m. (280.5 kc); 5 kw.
11.40 a.m.—Police News.
12.10 p.m.—Trio Concert.
2.40 p.m.—Fashion Talk.
5.40 p.m.—Time and Trio Concert.
6.55 p.m.—English Conversation Lesson
7.25 p.m.—Police News.
7.45 p.m.—Book Talk.
8.5 p.m.—Concert: 1. "Semiramis"—Overture (Rossini). 2. Ballet Music from "Anacreon" (Cherubini). 3. (a) Ave Maria (Cherubini), (b) Aria from "The Marriage of Figaro". 4. (a) Plaisir d'amour (Martini), (b) Minuet (Beccherini). 5. Selection from the Works of Berlioz (arr. Urbach).

9.10 p.m.—Talk.
9.40 p.m.—Weather and News.
10.0 p.m.—Concert (continued): 6. Prelude to "Lohengrin" (Wagner). 7. (a) Elizabeth's Prayer from "Tannhäuser" (Wagner), (b) Air from "La Juive" (Halévy). 8. Minuet and Gavotte from "I Pagliacci" (Leoncavallo). 9. Flattergeister (Strauss). 10. Selection from "Die Geschiedene Frau" (Leo Fall). 11. Durch Licht zum Leben—March (Blankenburg).
10.50 p.m. (approx.)—Close Down.

HUIZEN (Holland)
WL. 340.9 m. (880 kc); 4 kw. (until 5.40 p.m.) Transmits from 5.40 p.m. on 1,870 m. (160 kc).
12.10 p.m.—Trio Concert.
5.10 p.m.—Gramophone Music.
6.10 p.m.—Esperanto Lesson.
6.40 p.m.—English Lesson.
7.10 p.m.—Ecclesiastical Latin Lesson.
7.40 p.m.—"Queen of the May"—Operetta for Chorus, Orchestra and Soloists (Bruinsma and Ludwig).
10.10 p.m.—News.

JUAN-LES-PINS (France)
Radio L.L. WL. 246 m. (1,220 kc.); 0.25 kw.
1.0 p.m.—Orchestral Concert from the Casino. 1. Morgenblatter (Strauss). 2. Madrigal (Ganne). 3. Brises d'Automne (Missa). 4. William Tell (Rossini). 5. Sie les fleurs avaient des yeux (Massenet). 6. Coppélia (Delibes). 7. Brise Argentine (Dequin). 8. Chanson Hindoue (Rimsky-Korsakoff). 9. Le Cigale et la Fourmi (Audran). News during the interval.
9.0 p.m.—Orchestral Concert.
10.0 p.m.—Dance Music.
10.30 p.m. (approx.)—Close Down

KIEL (Germany)
Norag. WL. 278 m. (1,076 kc); 0.7 kw.
3.15 p.m.—Pianoforte Recital.
6.10 p.m.—Programme from Bremen.
7.0 p.m.—Johann Hinrich Fehrs Recital: 1. Talk, 2. Heideleben Poem (Fehrs). 3. From the Works of Fehrs. 4. Holstenlied—Poem (Fehrs). 5. "From the Works of Fehrs."
8.0 p.m.—Programme from Hanover.

KONIGSBERG (Germany)
Ostmarken Rundfunk. WL. 330.3 m. (908 kc); 1 kw.
Relayed by Danzig on 272.7 m. (1,100 kc).
3.9 p.m.—Talk.

3.30 p.m.—Concert: 1. "Führend Volk"—Overture (Leuschner). 2. Traum Suite (Ricner). 3. Krolls Ballklänge (Lumbye). 4. Glockenserade (Kockert). 5. Vision orientale (Bece). 6. Ging da nicht eben das Gütick vorbei (Lehar). 7. Rund um den Erdball (Yoshitomo).
4.0 p.m.—"Humoresque" Programme (Danzig only).
5.30 p.m.—Talk, "Cattle Breeding."
6.0 p.m.—Talk, "Apparitions of the Living and of the Dead."
6.0 p.m.—"Ernst Toch" Recital (Danzig only): 1. Aus den Capricciotti, Op. 36. 2. "Aus den Tanz und Spielstücken."
6.30 p.m.—Spanish Lesson.
7.10 p.m.—"Ingeborg"—Comedy (Götz). Followed by News and Weather.
9.15 p.m.—Concert: 1. "The Bartered Bride"—Overture (Smetana). 2. Souvenir de Bayreuth (Morena). 3. Merchant of Venice (Rosse). 4. Valse caprice (Rubinstein). 5. Rhapsodie Fantasia (Urbau).
10.30 p.m. (approx.)—Close Down.

KOVNO (Lithuania)
Radio Kaunas. WL. 2,000 m. (150 kc); 15 kw.
4.30 p.m.—German Lesson.
5.0 p.m.—Talk, "The Lithuanian Poet Vienozinskas and his Works."
5.30 p.m.—Talk, "The Art of Living."
6.0 p.m.—Time, Weather and News.
6.30 p.m.—Chamber Music. 1. The Fourth Sonata (Bach). 2. Trio in G major (Beethoven). 3. Sonate Appassionata (Elert).
8.0 p.m.—Talk for Students.

LANGENBERG (Germany)
Westdeutscher Rundfunk. WL. 470 m. (638 kc); 2.5 kw. Programme also for Aix-la-Chapelle, 401 m. (748 kc); Cologne, 283 m. (1,060 kc); and Münster 303 m. (990 kc).
12 (noon)—Concert from Dortmund. 1. "Ika"—Overture (Doppler). 2. Frühlingstimmen. Waltz (Strauss). 3. Turkish Suite (Gauvin). 4. Violin Solo. 5. Selection from "The Bartered Bride". 6. (a) Valse—Intermezzo (Esslinger), (b) Mairied (Micheli). 7. Radezky March (Strauss).
2.50—6.45 p.m.—Programme from Cologne.
6.45 p.m.—Talk from Düsseldorf.
7.15 p.m.—Concert from Dortmund. "Traffic Recitations." Including Gramophone records of Reports by Lindbergh and Chamberlain and Levine of their Atlantic Flights. Followed by relays of Foreign Stations and Programme from Cologne.

LAUSANNE (Switzerland)
Société Romande de Radiophonie (HBZ). WL. 680 m. (441 kc); 0.5 kw.
Transmits at intervals from 6.45 a.m.
7.0 p.m.—Weather.
7.1 p.m.—Orchestral Concert: 1. "Il Seraglio"—Overture (Mozart). 2. Andante Cantabile (Tchajkovsky). 3. Violin and Pianoforte Selection—Concerto in E major (Bach). 4. (a) Albumblatt (Wagner); (b) Siegmund's Song (Wagner). 5. Symphony in D (Haydn).
6. Military March (Saint-Saëns).
8.30 p.m.—Literary Notes.

MADRID (Spain)
Union Radio (EAJ7). WL. 375 m. (800 kc); 1.5 kw.
Transmits at intervals from 11.45 a.m.
7.0 p.m.—Orchestral Selections: 1. El gaitero—Selection (Nioto). 2. Toreador—Selection (Adam). 3. Una mujer indecisa—Selection (Millán). Interlude by Luis Medina.
8.0 p.m.—Dance Music relayed from the Hotel Ritz.
9.30 p.m.—English Lesson. Programme relayed by San Sebastián (EAJ8), 335 m. (895 kc).
10.0 p.m.—Time and Exchange Quotations.
10.2 p.m.—"La Maja"—Selection (Nioto), followed by "El Amor en Solfa"—Selection (Chapi and Serrano).
12.20 a.m. (Wednesday)—News.
12.30 a.m. (approx.)—Close Down.

MUNICH (Germany)
Deutsche Stunde in Bayern. WL. 535.7 m. (560 kc); 4 kw. Relayed by Nürnberg on 241.9 m. (1,240 kc) and Augsburg on 566 m. (630 kc).
Transmits at intervals from 10.12 a.m.
3.0 p.m.—Concert. 1. "Tiefand"—Prelude (d'Albert). 2. Der letzte Brief—Waltz (Reggow). 3. Selection from "Manon Lescaut"

(Puccini). 4. Saxophone Solos. 5. Tramonto d'un sogno (de Capua). 6. Two Dances. 7. Wiener Volksweisen (Leopold). 8. Aria from "Der Zerewitsch" (Lohr).
4.5 p.m.—Reading.
5.15 p.m.—Talk, "A Quarter of an Hour in the Munich Botanical Gardens."
5.30 p.m.—Review of Books.
6.0 p.m.—English Lesson.
6.45—9.10 p.m.—Programme from Nürnberg.
6.45 p.m.—Albrecht Dürer Memorial Recital, from the "Grossen Rathausaal," Nürnberg.
8.15 p.m.—Orchestral Concert. 1. "The Messiah"—Overture (Handel). 2. Two Soprano Arias from "The Messiah" (Handel). 3. Suite in D major (Bach). 4. Gottes Macht und Vorsehung (Beethoven). 5. Festlied (Schütz). 6. Huldigungsworte. 7. Selection from "The Mastersingers" (Wagner).
9.10 p.m.—News.
9.25 p.m.—Chess Talk.

OSLO (Norway)
Kringkastingselskapet. WL. 461.5 m. (650 kc); 1.5 kw. Relayed by Hamar, on 555.8 m. (540 kc); Porsgrund, 500 m. (600 kc.); Fredrikstad, 434.8 m. (690 kc.); Notodden, 411 m. (730 kc.); and Rjukan, 448 m. (670 kc).
5.15 p.m.—Talks on "What we eat" and "Fashions."
5.55 p.m.—Shorthand Dictation.
6.15 p.m.—Talk on "The author of Uncle Tom's Cabin."
7.0 p.m.—Agricultural Talk.
7.30 p.m.—Concert: 1. Ved Gjendin (Johansen). 2. Barcarole (Lieblich). 3. Selections (Jensen). 4. He sows (Jordan). 5. Twilight (Gröndahl). 6. Rhapsody No. 3 (Svendsen).
8.30 p.m.—Song Recital.
9.0 p.m.—Weather and News.
9.15 p.m.—Topical Talk.
9.30 p.m. (approx.)—Close Down.

PARIS (France)
Ecole Supérieure (FPTT). WL. 458 m. (655 kc); 0.5 kw.
Transmits at intervals from 8 a.m.
2.0 p.m.—Concert. 1. "Gismonda" (Fevrier). 2. "Werther"—Selection (Massenet). 3. Minuet (Moszkovsky). 4. Arabesques (Debussy).
6.0 p.m.—Radio-Journal de France.
8.0 p.m.—English Lesson.
9.0 p.m.—"Aida"—Opera Selection (Verdi). In the interval, Talk on "Foreign Affairs."

PARIS (France)
Eiffel Tower (FL). WL. 2,650 m. (113 kc); 5 kw.
7.56 a.m.—Time Signal on 32 m. (9,375 kc).
9.26 a.m.—Time Signal.
5.45 p.m.—"Le Journal Parlé." Talks on "Books to Read," etc.
7.10 p.m.—Weather.
7.30 p.m.—Concert: 1. Songs (a) La Cloche (Saint-Saëns); (b) Autumn (Faure); (c) Non Crede (Widor). 2. Le Rossignol en amour (Couperin). 3. Pastourelle et rondeau (Desportes). 4. Flute Solos: (a) Trois rondels (Hue); (b) Chamende Blaisine (de Séverac). 5. Divertissement chez Madame—Song Cycle (Cadou). At 7.56 p.m. Time Signal on 32 m. (9,375 kc.).
8.30 p.m.—Educational Programme. Talks on "Tahiti," "Great Discoveries" and "Mont St. Michel."
10.26 p.m.—Time Signal.

PARIS (France)
Petit Parisien. WL. 340.9 m. (880 kc); 0.5 kw.
9.0 p.m.—Concert. 1. "Daria"—Prelude and Dance (Marty). 2. Fantasia on Angevin Airs (Lekeu). 3. Adagio for Quartet.
9.30 p.m.—"Il était une bergère"—Story dramatised in one act, with incidental music (André Rivoire and Roger Monteaux).
10.0 p.m.—Concert. 1. Pastoral and Dance for Oboe and Orchestra (Ropartz). 2. Bearnaise Dances (Bordes). 3. Scènes bretonnes (Ropartz).

PARIS (France)
Radio-Paris (CFR). WL. 1,750 m. (171 kc); 3 kw.
8.0 a.m.—News.
10.30 a.m.—News and Musical Selections.
12.30 p.m.—Orchestral Concert: 1. "Tancred"—Overture (Rossini). 2. A Grenade (Branga). 3. Elégie (Souchon). 4. Musette en rondeau (Rameau). 5. Violin Solos: (a)

Programmes for Tuesday.—(Cont.)

Aubade from "Prince Charming" (Rabey), (b) Poème tzigane (Rabey).
 6. Selection from "Werther" (Massenet). 7. La Source (Chrétiens). 8. Le Timbre d'argent (Saint-Saëns). 9. London Sketches (Casadesus). 10. Chanson triste (Duparc). 1. La Boîte à jousjou (Debussy). News in the Interval.
 1.50 p.m.—Market Prices.
 3.30 p.m.—Exchange Quotations.
 3.45 p.m.—Concert: "Le Mariage secret"—Overture (Cimarosa). 2. Sonata for Cello (Huré). 3. Intermezzo (Godard). 4. Pianoforte Solos (Staub): (a) Sous bois, (b) Valse élégante. 5. Crépuscule (Fourdrain). 6. Concerto for Violin (d'Ambrosio). 7. The Flight to Egypt (Berlioz).
 4.45 p.m.—Exchange and News.
 7.0 p.m.—Agricultural Report.
 7.45 p.m.—English Lesson.
 8.0 p.m.—Exchange and News.
 8.15 p.m. (approx.)—Literary Talk.
 8.30 p.m.—Concert. Part I: Büsser Programme—1. Hercules in the Garden of Hesperides. 2. La Colombe. 3. La Nympe de la Source. 4. Retour de Vèpres. 5. A La Villa Medicis. Part II: 1. The Fourth Symphony (Beethoven). 2. Mephisto-Waltz (Liszt). News in the Interval.

PITTSBURGH (U.S.A.)
 Westinghouse Electric (KDKA). WL. 315.6 m. (950 kc.); 50 kw.
 10.10 p.m.—KDKA Theatrical Calendar.
 10.15 p.m.—KDKA Little Symphony Orchestra, Victor Saudék—Conductor, Playing in the Lobby of the William Penn Hotel, Pgh.
 11.0 p.m.—Time and "Four One Minute Men" presenting a Popular Programme.
 11.30 p.m.—Haller Bakers.
 12.0 midnight.—Stromberg—Carison Hour from WJZ, New York.
 12.30 a.m.—(Wednesday)—Concert.
 1.0 a.m.—High Spots of Melody from WJZ, New York.
 1.30 a.m.—"Rhythmic Ripples" from WJZ, New York.
 2.0 a.m.—Time, "Happiness Programme" by the "Merry Maytag Ramblers."
 2.30 a.m.—Sacred Song Concert.
 3.0 a.m.—Time and Weather Forecast.

POSEN (Poland)
 Polskie Radio. WL. 344 m. (872 kc.); 1.5 kw.
 Transmits at intervals from 12 noon.
 4.0 p.m.—English Lesson.
 4.20 p.m.—Talk, "Easter Customs and Ceremonies."
 4.45 p.m.—Concert.
 6.0 p.m.—Variety Items.
 6.30 p.m.—Programme from Kattowitz, followed by Time, Variety Item, Weather, and News.
 10.0 p.m.—Dance Music from the Carlton Restaurant.

PRAGUE (Czechoslovakia)
 Strasnice. WL. 348.9 m. (860 kc.); 5 kw.
 Transmits at intervals from 10.0 a.m.
 5.55 p.m.—French Lesson.
 6.15 p.m.—The Melody Makers.
 7.0 p.m.—Weather and News.
 7.30 p.m.—Concert: 1. Scherzo (Smetana). 2. Concerto for Piano-forte (Novak). 3. Concerto in A major for Violin (Dvorák). 4. Carnival Overture (Dvorák).
 8.30 p.m.—Concert: 1. Concerto in B major for Cello (Bocherini). 2. Adagio (Bach). 3. Selections (Fauré and Davidov).
 9.0 p.m.—Time, News and Orchestral Music.

ROME (Italy)
 Unione Radiofonica Italiana (IRO). WL. 448.4 m. (669 kc.); 3 kw.
 11.30 a.m.—Government Report.
 12.30 p.m.—Trio Concert.
 1.30 p.m.—Exchange and News.
 3.40 p.m.—News and Exchange.
 3.50 p.m.—Children's Corner.
 4.15 p.m.—Agricultural Report.
 4.30 p.m.—Vocal and Instrumental Concert and Dance Music from the "Casinetta."
 5.30 p.m.—Morse Lesson.
 5.40 p.m.—Lesson in Wireless Technology.
 6.0 p.m.—Government Report.
 7.0 p.m.—English Lesson.
 7.30 p.m.—Time, News, Exchange and Weather.
 7.45 p.m.—"La Leggenda delle sette torri"—Lyric Opera (Gasco), and "Gianni Schicchi"—Opera (Puccini).
 9.50 p.m.—News.
 10.5 p.m. (approx.)—Close Down.

SCHNECTADY (U.S.A.)
 General Electric Company (WGY). WL. 379.5 m. (790 kc.); 50 kw.
 Programme relayed by 2XAF on 31.4 m. (9554 kc) from 10.0 p.m.
 10.45 a.m.—Exercises.
 12.30 p.m.—"Cheerio Talk and Music."
 3.15 p.m.—Radio Household Institute Talk from New York.
 3.55 p.m.—Time and Weather.
 4.2 p.m.—Produce Report.
 4.7 p.m.—"Farm Flashes."
 4.30 p.m.—Stock, Cotton, Grain Market Reports.
 4.43 p.m.—Weather.
 6.0 p.m.—Organ Recital by Emlyn Jones from Proctor's Theatre, Schenectady.
 10.0 p.m.—Exchange and News.
 10.30 p.m.—Dinner Music from the Hotel Ten Eyck, Albany.
 11.0 p.m.—"Voter's Service" from New York.
 11.30 p.m.—"The Soconyans," from New York.
 12.0 midnight.—Vocal Recital by Pupils of S. Graham Nobbes.
 12.30 a.m.—(Wednesday)—"The Seiberling Singers" from New York.
 1.0 a.m.—Time.
 The following Programme from New York.
 1.2 a.m.—"Eveready Hour."
 2.0 a.m.—Clicquot Club Eskimos.
 2.30 a.m.—Rolfé's Palais d'Or Orchestra.
 3.30 a.m.—J. Gordon Baldwin (Organist) and Dorothy Drakeley (Soloist) from Rochester.
 4.0 a.m.—Shea's Buffalo Symphony Orchestra.
 5.0 a.m. (approx.)—Close Down.

STOCKHOLM (Sweden)
 Radiotjänst (SASA). WL. 453.8 m. (651 kc.); 1.5 kw.
 Relay by Motala on 1,380 m. (217 kc.); Göteborg, 416.7 m. (720 kc.); Malmö, 260.9 m. (1,150 kc.); and Sundsvall, 545.6 m. (550 kc.).
 5.0 p.m.—Children's Corner.
 5.30 p.m.—Government Report.
 6.0 p.m.—Light Music.
 6.15 p.m.—Physiology Talk.
 6.45 p.m.—Light Music.
 7.25 p.m.—Geography Talk.
 7.55 p.m.—Soprano Solos and Poetry Recital.
 8.15 p.m.—News and Weather.
 8.40 p.m.—Topical Talk.
 9.10 p.m. (approx.)—Close Down.

STUTTGART (Germany)
 Süddeutscher Rundfunk. WL. 380.7 m. (788 kc.); 4 kw.
 Transmits at intervals from 11.30 a.m.
 2.45 p.m.—Women's Programme: Birthday Celebration of Helene Lange.
 3.15 p.m.—Concert from the Works of d'Albert: 1. Fantasia from "Der Stier von Olivierz." 2. Intermezzo from "Tiefand." 3. Selection from "Die roten Augen." 4. Selection from "Mariechen von Nymwegen." 5. Prelude to "Der Rubin." 6. Fantasia from "Tiefand."
 5.0 p.m.—Time and Weather.
 5.15 p.m.—Talk: "The Egyptian Woman."
 5.45 p.m.—Talk: "Paganini in Germany One Hundred Years Ago."
 6.15 p.m.—Talk arranged by the German Foreign Institute.
 6.45 p.m.—Time, Weather and Wireless News.
 7.15 p.m.—Programme from Frankfurt.
 8.50 p.m.—Orchestral Concert: 1. Leonore Overture No. 2 (Beethoven). 2. Ballet Music from "Idomeneo (Mozart). 3. Dance from "The Damnation of Faust" (Berlioz). 4. "Hebrides"—Overture (Mendelssohn). 5. Selections from "Peer Gynt" (Grieg). 6. Ballet Music from "Sylvia" (Delibes). 7. Prelude to "Hansel and Gretel" (Humperdinck).
 9.45 p.m.—News.
 10.0 p.m. (approx.)—Close Down.

TORONTO (Canada)
 Toronto Star (CFCA). WL. 357 m. (840 kc.); 0.5 kw.
 5.0 p.m.—Weather, News and Exchange.
 7.0 p.m.—Chimes from London, England.
 9.30 p.m.—Programme from 2LO, London.
 10.45 p.m.—Exchange.
 11.30 p.m.—News and Weather.
WARSAW (Poland)
 Polskie-Radio. WL. 1,111.1 m. (270 kc.); 10 kw.
 11.0 a.m.—Time, Fanfare from the Tower of Notre Dame in Cracow, Aviation Report and Weather.
 2.0 p.m.—Weather and Agricultural Report.
 2.30 p.m.—Talk on "Napoleon Bonaparte."
 3.0 p.m.—Literary Talk.

3.25 p.m.—News.
 3.40 p.m.—Medical Hygiene Talk.
 4.20 p.m.—Programme relayed from Kattowitz.
 4.45 p.m.—Concert.
 6.5 p.m.—Agricultural Report, Market Prices relayed from Cracow.
 6.15 p.m.—Variety.
 6.30 p.m.—Programme from Kattowitz. In the interval, News in French.
 9.0 p.m.—Time, News and Aviation Report.
 9.5 p.m.—News, Police News and Sports Notes.
 9.30 p.m.—Dance Music.
 10.30 p.m. (approx.)—Close Down.

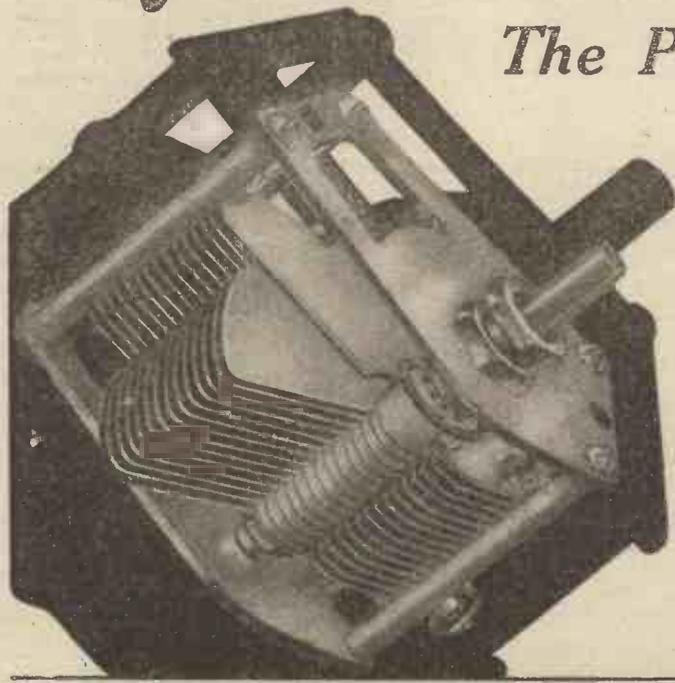
WILNO (Poland)
 Polskie-Radio. WL. 435 m. (689 kc.); 0.5 kw.
 3.0 p.m.—News in Lithuanian.
 3.15 p.m.—News.
 3.30 p.m.—Talk.
 4.30 p.m.—Programme relayed from Kattowitz.
 4.45 p.m.—Concert relayed from Warsaw.
 5.50 p.m.—News, Time and Variety.
 6.20 p.m.—Relay of an Opera.
 9.0 p.m.—News.
 9.30 p.m.—Dance Music.
 10.30 p.m. (approx.)—Close Down.

ZAGREB (Yugo-Slavia)
 Radioklub-Zagreb. WL. 310.5 m. (966 kc.); 0.35 kw.
 12.15 p.m.—Gramophone Selections.
 12.30 p.m.—Exchange and News.
 4.30 p.m.—Concert.
 5.45 p.m.—"Pictures of World History."

ZURICH (Switzerland)
 Radio-Genossenschaft. WL. 588.2 m. (510 kc.); 2 kw.
 11.30 a.m.—Time and Weather.
 11.32 a.m.—Gramophone Request Concert.
 11.50 a.m.—News.
 12.35 p.m.—Weather and Exchange.
 2.0 p.m.—Orchestral Concert.
 3.0 p.m.—Orchestral Concert.
 4.10 p.m.—Children's Corner.
 4.45 p.m.—Weather.
 6.30 p.m.—Time and Weather.
 6.32 p.m.—Talk, "The Duty of Supporting Relatives."
 7.0 p.m.—Concert.
 8.0 p.m.—Viennese Concert of Orchestral, Soprano and Baritone Selections.
 9.0 p.m.—Weather and News.
 9.10 p.m.—Gramophone Dance Music.

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PROGRAMMES FOR WEDNESDAY (April 11)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME.

BARCELONA (Spain)

Radio Barcelona (E.A.J.). WL. 344.8 m. (870 kc); 1.5 kw. Transmits at intervals from 11.0 a.m. 8.30 p.m.—Castilian Grammar Lesson. 9.0 p.m.—Chimes from the Cathedral and Weather. 9.5 p.m.—Exchange Quotations and News. 9.10 p.m.—Orchestral Concert. 1. Lucero—Spanish March (Galvez). 2. Russian Lullaby (Berlin). 3. Baltimore (Healy). 4. Chulungano (Jarque). 5. Slow gel (Bee). 6. Only for you (Margaret). 7. Oriental Dream Eyes (Platen). 9.50 p.m.—"A Winter's Tale"—Play after Shakespeare (Portusach). 10.0 p.m.—Exchange Closing Prices. 10.13 p.m.—Tenor Song Recital. 1. Doña Francisquita—Romance (Vives). 2. La Generala—Romance (Vives). 3. The Blue Bird—Romance (Millan). 4. El Caserio—Romance (Guridi). 10.40 p.m.—Relay of Part of the Concert from the Granja Royale. 11.45 p.m. (approx.)—Close Down.

BASLE (Switzerland)

Basler-Radio-Genossenschaft. WL. 1,000 m. (300 kc); 0.25 kw. 6.30 p.m.—Time and Weather. 6.35 p.m.—Swiss Poetry Reading. 7.0 p.m.—National Concert. 1. Choral and Instrumental Programme. 8.20 p.m.—Orchestral Concert from the Métropole Monopole. News and Weather in the Interval. 9.30 p.m. (approx.)—Close Down.

BERGEN (Norway)

Kringkastingselskap. WL. 369.9 m. (811 kc); 1.5 kw. Transmits at intervals from 10.15 a.m. 7.0 p.m.—The Wireless Orchestra. 1. "Egmont"—Overture (Beethoven). 2. "Manon Lescaut"—Selection (Puccini). 7.30 p.m.—Legal Talk. 8.0 p.m.—The Wireless Orchestra. 1. Moldau-Klänge (Dvorak). 2. Indian Seite (Liljengren). 8.30 p.m.—French Lesson. 9.0 p.m.—Weather, News and Time. 9.15 p.m.—Dance Music. 10.0 p.m. (approx.)—Close Down.

BERLIN (Germany)

Königswusterhausen. WL. 1,250 m. (240 kc); 35 kw. 11.30 a.m.—Talk. 11.40 a.m.—Talk. 1.30 p.m.—Theatre Talk for Children. 2.0 p.m.—Cultural Talk. 2.35 p.m.—Weather and Market Prices. 3.0 p.m.—Talk on "Overwork in School and Training." 3.30 p.m.—Music Talk. 4.0 p.m.—Concert relayed from Hamburg. 5.0 p.m.—French Lesson. 5.55 p.m.—Agricultural Talk. 6.20 p.m.—"Money and Gold in the History of the Nations." 7.30 p.m.—Programme relayed from Vöxhaus.

BERLIN (Germany)

Vöxhaus. WL. 484.6 m. (619 kc.); 4 kw. Transmits at intervals from 9.10 a.m. 7.30 p.m.—Talk. 8.0 p.m.—Chamber Music, followed by News and Dance Music. 11.30 p.m. (approx.)—Close Down.

BERNE (Switzerland)

Radio-Berne. WL. 411 m (730 kc); 1.5 kw. 12.0 noon.—Time, Weather, Exchange Market Prices and Gramophone Records. 2.56 p.m.—Time. 3.0 p.m.—The Kursaal Orchestra. 3.30 p.m.—Children's Corner. 4.0 p.m.—The Kursaal Orchestra. 6.30 p.m.—Time and Weather. 6.35 p.m.—English Half Hour. 7.0 p.m.—Relay of an Opera from the Berne "Stadttheater." 8.0 p.m.—The Italian "Kunster" Orchestra. 8.50 p.m.—News and Weather. 9.5 p.m.—The Kursaal Orchestra. 9.30 p.m. (approx.)—Close Down.

BRÜNN (Czechoslovakia)

Komarov. WL. 441 m. (680 kc); 3 kw. Transmits at intervals from 11.15 a.m. 6.0 p.m.—Orchestral Selections. 7.0 p.m.—French Lesson. 7.20 p.m.—Popular Concert: 1. Selection (Gilbert). 2. "Der Zarewitsch"—Selection (Léhar). 3. Aria (Strauss). 4. "Pierrot flo (Ljardovic). 5. Lady X—Selection

(Edwards). 6. "The Count of Luxemburg"—Selection (Léhar). 9.0 p.m.—Programme relayed from Prague.

BRUSSELS (Belgium)

Radio Belgique. WL. 508.5 m. (590 kc); 1.5 kw. 5.0 p.m.—Trio Concert. 7.45 p.m.—Radio Chronique. 8.15 p.m.—Schubert Concert: 1. Symphony in B Minor. 2. Talk on "The Life of Schubert." 3. "Rosamunde"—Ballet. 4. Melodies for Tenor. 5. Overture in the Italian Style. 6. Litany for Cello. 7. Moment Musical. 8. Tenor Songs. 9. Improvisu for Pianoforte. 10. Talk on "Schubert's Works." 11. Unfinished Symphony. 10.15 p.m.—News. 10.30 p.m. (approx.)—Close Down.

COLOGNE (Germany)

Westdeutscher Rundfunk. WL. 283 m. (1,060 kc); 4 kw. 12 (noon)—Concert: 1. "The Nürnberg Doll"—Overture (Adam). 2. Valse (Becucci). 3. Melodies from "The Daughter of the Regiment" (Donizetti). 4. Second Rhapsody (Liszt). 5. Tenor Solos. 6. Rustle of Spring (Sinding). 7. Potpourri from "The Gipsy Baron" (Strauss). 8. Intermezzo (Penn). 2.45 p.m.—Talk for Women. 3.10 p.m.—Reading. 3.40 p.m.—Recitations. 4.5 p.m.—See Langenberg. 4.25 p.m.—Topical Talk. 4.35 p.m.—Legal Talk. 5.0 p.m.—Reading. 5.40 p.m.—See Langenberg. 7.30 p.m.—Concert of international music and songs, followed by Sports Notes, Concert and Dance Music. 11.0 p.m. (approx.)—Close Down.

COPENHAGEN (Denmark)

Copenhagen Radio. WL. 337 m. (890 kc); 1 kw. Relayed by Kalundborg, on 1,153.8 m. (260 kc). Transmits at intervals from 6.30 a.m. 5.30 p.m.—Talk for Housewives, and Wireless Notes. 6.0 p.m.—News, Exchange and Time. 6.20 p.m.—Talk on Neurosis. 7.0 p.m.—Concert of Polish Music: 1. "Halka"—Overture (Moniuszko). 2. Polonaise militaire in A Major (Chopin). 3. Song from "Halka" (Moniuszko). 4. Selection from "Mauru" (Paderewski). 5. Fantasia on Polish Folk Melodies. 8.0 p.m.—News. 8.15 p.m.—Recital of Danish Poems. 9.15 p.m.—Selection of Old Folk Songs. 9.45 p.m.—Dance Music from the Palace Hotel. 11.0 p.m.—Chimes. 11.30 p.m. (approx.)—Close Down.

CORK (Ireland)

Cork Broadcasting Station (6CK). WL. 400 m. (750 kc); 1.5 kw. 2.30 p.m.—Weather, Stock Market Report and Gramophone Records. 6.15 p.m.—Programme from Dublin.

CRACOW (Poland)

Polskie-Radio. WL. 566 m. (530 kc); 1.5 kw. Transmits at intervals from 11.0 a.m. 4.45 p.m.—Children's Corner. 5.15 p.m.—Programme from Warsaw. 6.5 p.m.—Agricultural Report. 6.15 p.m.—Variety. 6.35 p.m.—Answers to Letters. 7.0 p.m.—Fanfare from Notre Dame. 7.30 p.m.—Programme from Warsaw.

DUBLIN (Ireland)

Dublin Broadcasting Station (2RN). WL. 319.1 m. (940 kc); 1.5 kw. 1.30 p.m.—Stock Exchange List, Weather and Gramophone Concert. 6.0 p.m.—Gramophone Concert. 6.15 p.m.—Children's Corner. 7.0 p.m.—Talk for Women. 7.20 p.m.—News. 7.30 p.m.—Irish Lesson by M. O. Maolain. 7.45 p.m.—German Lesson by Olga von Wenckstern. 8.0 p.m.—Request Music by the Station Orchestra. 8.40 p.m.—Lecture Recital, "Beethoven's Irish Maecenas" by W. H. Grattan Flood, Mus. D. 9.0 p.m.—Soprano Solos by Mabel Thrift. 9.10 p.m.—Pianoforte and Violin Duets: Dorothy Stokes—Pianist. Maud Davin—Violinist. 9.35 p.m.—Contralto Solos, by Mme. Maud Hunter. 9.50 p.m.—Frank Fay and Company in "The Three Marys." 10.20 p.m.—Airs from French Opera, by the Station Opera.

10.30 p.m.—News, Weather Report and Close Down.

GENEVA (Switzerland)

Radio Geneva. WL. 760 m. (395 kc); 0.5 kw. 5.0 p.m.—Programme from the MacMahon. News. 7.15 p.m.—News and Talk on Books. 7.35 p.m.—Programmes from Basle and Berne. 8.50 p.m.—News. 9.0 p.m.—Programme from the Fantasio. 10.0 p.m. (approx.)—Close Down.

GRAZ (Austria)

Oest. Radio-Verkehr. WL. 357.1 m. (840 kc); 0.5 kw. 10 a.m.—7.30 p.m.—Programme from Vienna. 7.30 p.m.—Concert of Folk Music. 1. Mixed Choir: (a) Abschiedslied—Folksong (arr. Brahms), (b) Vorsicht—Bavarian Dance, (c) Trost beim Abschied—Silesian Folksong, (d) Dö wuschad'n Leut. 2. Two Vocal Quartets. 3. Mixed Choir: (a) Am Riegerl, (b) Der Lustige Jäger. 4. Two Selections by Women's Choir. 5. Quartet, Tirolerhochzeitsstücklein. 6. Vocal Quartet. 7. Mixed Choir—Folksongs and Yodel Selection. 8. Zither Trio: (a) Walkürenmarsch (Ludwig), (b) Aus der guten alten Zeit—Ländler, (c) Alpine Song Potpourri (Sigmund), (d) An der Weser—Song (Presele). 9. Dialect Recital. 10. Mandoline Quartet: (a) Nachtvögelmarsch (Oscheit), (b) Edera—Serenade (Carosio), (c) Meeressurmeln—Intermezzo (Salvetti), (d) Die Bosniaken kommen—March (Wagner). Followed by News and Weather.

HAMBURG (Germany)

Norag (ha, in Morse). WL. 396 m. (757 kc); 4 kw. Relayed by Bremen on 272.7 m. (1,100 kc); Hanover, 297 m. (1,010 kc); and Kiel, 278 m. (1,076 kc). 3.15 p.m.—Talk, "Felix Timmermann, a Flemish Poet" (Hamburg and Bremen only). 3.15 p.m.—Recital of Löns Songs (Kiel only). 4.0 p.m.—Brahms Concert. Relayed by Königswusterhausen. 1. Sonata in A major, Op. 100. 2. Trio in C major, Op. 87. 7.0 p.m.—Programme from Hanover.

HANOVER (Germany)

Norag. WL. 297 m. (1,010 kc); 0.7 kw. 3.15 p.m.—Otto Lothar Riemasch Talks on His Own Works. 4.0 p.m.—Programme from Hamburg. 7.0 p.m.—"Madonna am Wiesensaun"—Opera (Mraczek), adapted from the Novel by Ostermann.

HILVERSUM (Holland)

Algemeene Vereeniging Radio-Omroep. WL. 1,069 m. (280.5 kc); 5 kw. 11.40 a.m.—Police News. 12.10 p.m.—Trio Concert. 5.10 p.m.—Concert. 1. "Der Maurer"—Overture (Auber). 2. "Peer Gynt"—Suite No. 1 (Grieg). 3. Soprano Solos: (a) Solveig's Song (Grieg), (b) Nuit d'étoiles (Debussy). 4. Selection from the Works of Chopin (Pétras). 5. Der Sohn der Heide (Czardas). 6. Songs: (a) Air from "Hérodiade" (Massenet), (b) Berceuse (Grit). 7. Selection from "Cavalleria Rusticana" (Mascagni). 8. Die Romantiker (Lanner). 9. Cello Solo: The Broken Melody (van Biene). 10. Sabina Tango (De Berrie). 11. Finale. 6.55 p.m.—Talk. 7.25 p.m.—Police News. 7.45 p.m.—Talk. 8.15 p.m.—Gramophone Selections. 8.25 p.m.—"Teddy, You and Me"—Comedy (Jan van Ees). In the Intervals, Gramophone Selections.

HUIZEN (Holland)

WL. 340.9 m. (880 kc); 4 kw. (Until 5.40 p.m.). Transmits from 5.40 p.m. on 1,870 m. (160 kc). 12.10 p.m.—Trio Concert. 4.55 p.m.—Children's Corner. 7.10 p.m.—Talk. 7.40 p.m.—"The Passion" (Müller), by the Emmanuel Choir, Ruiters (Organist) and Vocalists. Talk.

JUAN-LES-PINS (France)

Radio I.L. WL. 246 m. (1,220 kc); 0.25 kw. 1.0 p.m.—Orchestral Concert from the Casino. 1. Soir d'Ete (Waldteufel). 2. En Tapinois (Filippucci). 3. Lointaine Cresse (Battelle). 4. "Pique-Dame" (Suppe). 5. Monde d'Amour (H. Wood). 6. The Unfinished Symphony—First Mov-

ment (Schubert). 7. Valse pour vous (Razigade). 8. Mélodie (Rubinstein). 9. "Girofle Girofla" (Lecoq). News in the interval. 9.0 p.m.—Orchestral Concert. 10.0 p.m.—Dance Music from the Casino. 10.30 p.m. (approx.)—Close Down.

KÖNIGSBERG (Germany)

Ostmarken-Rundfunk. WL. 330.3 m. (908 kc); 1 kw. Relayed by Danzig on 272.7 m. (1,100 kc). 3.0 p.m.—Reading of Stories. 3.30 p.m.—Song Recital from the works of Richard Strauss. 1. Morgen. 2. Zuiegnung. (e) Nachtgesang. (d) Die Nacht, (e) Freundschaft Vision. 4.0 p.m.—Concert. 5.30 p.m.—Talk, "Youth of To-day, a Problem of the Future." 6.0 p.m.—Talk on "Economics" (Königsberg only). 6.0 p.m.—Recital of Lyrics from the works of Werfel. 6.30 p.m.—English Lesson. 7.10 p.m.—Concert of French Music. 1. Ballet Music from "Coppélia" (Delibes). 2. Concerto for Violin in G minor (Saint-Saëns). 3. Scènes pittoresques (Massenet). 8.35 p.m.—Reading from Novels (Federau). 9.30 p.m.—Dance Music from Berlin.

KOVNO (Lithuania)

Radio Kaunas. WL. 2,000 m. (150 kc); 15 kw. 4.0 p.m.—Orchestral Concert. 1. Melodies (Schubert). C. Boston (Bernatzki). 3. Palme Elégie (Fucik). 4. Waltz (Lanner). 5. Die Lilien (Rachmaninoff). 6. Palestine (Intermezzo (Bustamento). 7. "Cello Solo. 5.0 p.m.—Talk, "The Destiny of our Military Detachment in Russia." 5.30 p.m.—Talk, "By Car through North America," from Chicago to Sioux City." 6.0 p.m.—Time, Weather and News. 6.30 p.m.—Programme from the National Theatre.

LANGENBERG (Germany)

Westdeutscher Rundfunk. WL. 470 m. (638 kc); 25 kw. Programme also for Aix-la-Chapelle, 401 m. (748 kc); Cologne, 283 m. (1,060 kc); and Münster, 303 m. (990 kc). 12.0-4.5 p.m.—Programme from Cologne. 4.5 p.m.—Talk on "School Hygiene," from Dortmund. 4.25-5.40 p.m.—Programme from Cologne. 5.40 p.m.—Concert from Elberfeld: 1. Faust—Overture (Wagner). 2. Soprano Solos. 3. Selections from the Ninth Symphony (Beethoven). 7.30 p.m.—Programme from Cologne.

LAUSANNE (Switzerland)

Société Romande de Radiophonie. (HB2). WL. 680 m. (441 kc); 1.5 kw. Transmits at intervals from 6.45 a.m. 7.0 p.m.—Weather. 7.1 p.m.—Talk, "The Tile and Brickmaking Industry." 7.30 p.m.—Programme from Basle.

MADRID (Spain)

Union Radio (E.A.J.). WL. 375 m. (800 kc); 1.5 kw. Transmits at intervals from 11.45 a.m. 7.0 p.m.—Orchestral Selections. 1. "La Tuna de Alcalá"—Selection (Rivas and Redondo). 2. "The Flying Dutchman"—Selection (Wagner). 3. "El Capricho de las damas"—Selection (Foglietti). In the interval: Talk, "The Spanish Theatre in the Time of Lope de Rueda." 8.0 p.m.—Dance Music. Relayed from the Alcazar. 9.30 p.m.—History Lesson. 9.45 p.m.—Talk, "The Influence of Meteorology on Aviation." 10.0 p.m.—Time and Exchange Quotations. 10.2 p.m.—Programme of Dances. 1. "Le Bourgeois gentilhomme"—Minuet (Lully). 2. Gavotte (Bach). 3. "Dardanus"—Rigaudon (Rameau). 4. "Amphitruon" (Grétry). 5. Slavonic Dance (Dvorak). 6. Hungarian Dance (Brahms). 7. Norwegian Dance (Grieg). 8. Russian Dance (Moussorgsky). 9. Polish Dance (Brzezinski). 10. Gopak—Russian Dance (M. ussorgsky). 11. Sardana (Bretón). 12. Seguidillos (Granados). 13. Sevilla (Albeniz). 14. Lagarteranas (Pacheco). 15. Bolero (Bartolici). 16. Jota from

"La Dolores" (Bretón). Followed by News. 12 (midnight)—Dance Music. Relayed from the "Alcazar." 12.30 a.m. (Thursday—approx.)—Close Down.

MUNICH (Germany)

Deutsche Stunde in Bayern. WL. 535.7 m. (560 kc); 4 kw. Relayed by Nürnberg on 241.0 m. (1,240 kc); and Augsburg, on 566 m. (530 kc). Transmits at intervals from 10.15 a.m. 4.0 p.m.—Programme for Children. 5.15 p.m.—Chess Talk for Boys. 5.50 p.m.—Talk, "Dutch Life," from Nürnberg. 6.30 p.m.—Talk: "The Chemical Construction of the World." 7.0 p.m.—"Waltzes from Great Masters": 1. Invitation to the Dance (Weber). 2. Second Movement from the Fantastic Symphony (Berlioz). 3. Tanz in der Dorfschenke (Liszt). 4. Waltz from the "Rosenkavalier" (Strauss). 5. Valse d'amour from the Ballet Suite, Op. 130 (Reger). 6. The Blue Danube (Joh. Strauss). 8.15 p.m.—Robert Koppel Programme from Nürnberg. 9.20 p.m.—Announcements. 9.35 p.m.—Dance Music from the Regina Palace Hotel. 11.0 p.m. (approx.)—Close Down.

OSLO (Norway)

Kringkastingselskapet. WL. 461.5 m. (650 kc); 1.5 kw. Relayed by Hamar on 555.8 m. (540 kc); Porsgrund, 500 m. (600 kc); Fredriksstad, 434.8 m. (690 kc); Notodden, 411 m. (730 kc); and Rjukan, 448 m. (670 kc). 4.40 p.m.—Programme for boys. 5.40 p.m.—Elementary French Lesson. 6.15 p.m.—News. 6.30 p.m.—Technical Talk. 7.0 p.m.—Concert. 1. "Oberon"—overture (Weber). 2. "A Midsummer Night's Dream" (Mendelssohn). 3. Menuet tendre (Lemaître). 4. Royal tambour et vivandière (Rubinstein). 5. Acceleration Waltz (Joh. Strauss). 8.0 p.m.—Recitations. 8.30 p.m.—Pianoforte Recital. 9.0 p.m.—Weather and News. 9.15 p.m.—Topical Talk. 9.30 p.m.—Gramophone Music. 11.0 p.m. (approx.)—Close Down.

PARIS (France)

Ecole Supérieure (FPTT). WL. 458 m. (655 kc); 0.5 kw. Transmits at intervals from 8 a.m. 1.0 p.m.—Transmission by the Institut Radiophonique. 2.0 p.m.—Concert: 1. "Hérodiade" (Massenet). 2. Harmonie du Soir (Lazzari). 3. "Lohengrin" (Wagner). 4. Valse-du Pas des Fleurs (Delibes). 6.0 p.m.—Radio-Journal de France. 8.0 p.m.—Talks. 9.0 p.m.—Concert and Dance Music.

PARIS (France)

Eiffel Tower (FL). WL. 2,650 m. (113 kc); 5 kw. 7.56 a.m.—Time Signal on 32 m. (9,375 kc). 9.26 a.m.—Time Signal. 5.45 p.m.—"Le Journal Parlé" Talks on "Science," etc. 7.10 p.m.—Weather. 7.30 p.m.—Concert. 1. Scènes Pyrénéennes (Chauvet). 2. Songs with Flute Accompaniment: (a) Souvenirs, (b) Veux-tu me rejouer, (c) O la tristesse des airs gais, (d) Ecoutez la chanson, (e) Galop d'un cheval. 3. Cello Solos: (a) Prelude (Eccles), (b) Rondo (Bocherini). 4. Songs: (a) Le Jugement de Midas (Cools), (b) Deux airs (Purcell). 5. Suite française (Casadesu). At 7.56 p.m.: Time Signal on 32 m. (9,375 kc). 8.30 p.m.—Educational Programme. Talks on "Agriculture" and "Physical Culture." 10.20 p.m.—Time Signal.

PARIS (France)

Radio-Paris (CFR). WL. 1,750 m. (171 kc); 3 kw. 8.0 a.m.—News. 10.30 a.m.—News and Musical selections. 12.30 p.m.—Concert: 1. Après la Tempête (Bruneau). 2. Germania (Brahms). 3. Les Trois sultanes (Busser). 4. (a) Spleen; (b) Chanson du rouet (Canal). 5. (a) Pri-re d'amour; (b) Légende créole (Chapelier). 6. (a) Pavane; (b) Passéidj; (c) Courante (Chaminade). 7. La Petite maison blanche (Cools). 8. Selection from "Le Mariage secret" (Cimarosa). 9. Slavonic Dances (Dvorak). News in the Interval.

Programmes for Wednesday.—(Cont.)

1.50 p.m.—Market Prices.
 3.30 p.m.—Exchange Quotations.
 3.45 p.m.—Concert: 1. "Zampa"—Overture (Hérold). 2. Concerto for Cello (Saint-Saëns). 3. Nurgina for Piano (Ravel). 4. Sonata for Piano (Ravel). 5. Rigaudon (Saint-Saëns). 6. Sonata for Violin (Grieg). 7. Symphonie légendaire (Godard).
 4.45 p.m.—Exchange and News.
 7.0 p.m.—Agricultural Report.
 8.0 p.m.—Exchange and News.
 8.30 p.m.—Concert: Part I. "On ne badine pas avec l'amour" (Musset). Part II.—Chamber Music. News in the interval.

PITTSBURGH (U.S.A.)

Westinghouse Electric (DKKA). WL 315.6 m. (950 kc); 50 kw.
 10.0 p.m.—Time.
 10.15 p.m.—Westinghouse Band (T. J. Vastine—Conductor) playing in the lobby of the William Penn Hotel.
 11.0 p.m.—Time. University of Pittsburgh Address.
 11.15 p.m.—"King Comfort" and his "Oil-O-Matics."
 11.45 p.m.—"Political Situation in Washington To-night," by Frederick W. Wile, from WJZ, New York.
 12 (midnight)—"Champion Sparkers," from WJZ, New York.
 12.30 a.m.—"The Sylvania Foresters," from WJZ, New York.
 1.0 a.m.—Variety Hour, from WJZ, New York.
 2.0 a.m.—"Happiness" Programme by the "Merry Maytag Ramblers."
 2.30 a.m.—Power Period Sponsored by the Edward M. Power Co., Inc.
 3.0 a.m.—Time and Weather Forecast.

POSEN (Poland)

Polskie Radio. WL 344 m. (872 kc); 1.5 kw.
 Transmits at intervals from 12.0 noon.
 7.0 p.m.—Finance Notes.
 7.30 p.m.—Soloist Concert.
 9.0 p.m.—Time and Variety.
 9.20 p.m.—Weather and News.
 9.40 p.m.—Dancing Instruction.
 10.0 p.m.—Dance Music from the Palais Royal Restaurant.
 11.0 p.m. (approx.)—Close Down.

PRAGUE (Czechoslovakia)

Strasnice. WL 348.9 m. (865 kc); 5 kw.
 Transmits at intervals from 10.0 a.m.
 6.15 p.m.—Orchestral Selections.
 7.0 p.m.—Weather, News and Popular Music.
 8.0 p.m.—"The Wake" (Fillovacka).
 9.0 p.m.—Time, News and Orchestral Music.

ROME (Italy)

Unione Radiofonica Italiana (IRO). WL 448.4 m. (669 kc); 3 kw.
 11.30 a.m.—Government Report.
 12.30 p.m.—Exchange and News.
 3.40 p.m.—News and Exchange.
 3.50 p.m.—Children's Corner.
 4.15 p.m.—Agricultural Report.
 4.30 p.m.—Time and Vocal and Instrumental Concert. "Il fabbro armonioso"—Theme with Variations (Handel). 2. Etude in E major (Chopin). 3. Tenor Solos (Contreras): (a) Madre, (b) A te. 4. Soprano Solos: (a) "Il mio ben quando verrà"—Aria from "Nina pazza per amore" (Paisiello). (b) The Gipsy (Donizetti). 5. Pianoforte Solos: (a) Minuet (Zanella), (b) Tarantella (Martucci). 6. Tenor Solos: (a) Canzone nomade (Malena), (b) "O paradiso" from "L'Africaine" (Meyerbeer). 7. Soprano Solos: (a) Il canto del dubbio (Bossi), (b) Stormelli (Setaccioli).
 6.0 p.m.—Government Report.
 7.0 p.m.—German Lesson.
 7.30 p.m.—Time, News, Exchange and Weather.
 7.45 p.m.—Talk, "Errors in Justice Throughout the Centuries."
 8.0 p.m.—Relay from a Rome Theatre. In the interval: Review of Books. News.

SCHENECTADY (U.S.A.)

General Electric Company (WGY). WL 379.5 m. (790 kc); 50 kw.
 Programme relayed by 2XAD on 21.06 m. (13,661 kc) from 10.0 p.m.
 10.45 a.m.—Exercises.
 12.30 p.m.—"Cheerio" Talk and Music.
 3.15 p.m.—Radio Household Institute Talk, from New York.
 3.55 p.m.—Time and Weather.
 4.2 p.m.—Produce Report.

4.30 p.m.—Stock, Cotton, and Grain Market Prices.
 10.0 p.m.—Exchange and News.
 10.20 p.m.—"U.S. Radio Farm School."
 10.30 p.m.—WGY Agricultural Programme.
 11.15 p.m.—Musical Programme.
 11.30 p.m.—The Madrigal Mixed Quartet, under the direction of S. Graham Nobbes.
 12 (Midnight)—Remington Rand Band, conducted by Edwin L. Daniels, from Ilion.
 12.30 a.m.—"Radio Rollickers," from New York.
 1.0 a.m.—Time.
 1.2 a.m.—"The Ioana Troubadours" from New York.
 1.30 a.m.—Goodrich Silvertova Quartet and Orchestra, from New York.
 2.30 a.m.—News from "Time."
 3.0 a.m. (approx.)—Close Down.

STOCKHOLM (Sweden)

Radiotjänst (SASA). WL 453.8 m. (661 kc); 1.5 kw. Relayed by Motala on 1385 m. (217 kc); Göteborg, 416.7 m. (720 kc); Malmo, 260.9 m. (1150 kc); and Simdsvall, 545.6 m. (550 kc).
 5.0 p.m.—Children's Corner.
 5.30 p.m.—Light Music.
 6.25 p.m.—Sports Talk.
 6.20 p.m.—German Lesson.
 6.50 p.m.—Symphony Concert from the Concert House. 1. Violin Concerto in D (Brahms). 2. Symphony in F (Brahms).
 8.15 p.m.—News and Weather.
 10.0 p.m. (approx.)—Close Down.

STUTTGART (Germany)

Städtischer Rundfunk. WL 380.7 m. (788 kc); 4 kw.
 Transmits at intervals from 11.30 a.m.
 2.0 p.m.—Children's Corner.
 3.0 p.m.—Talk, "The Care of Flowers."
 3.15 p.m.—Concert. 1. "Die Fledermaus"—Overture (Strauss). 2. "Im Chambre séparée" from the "Opernball" (Hueberger). 3. Serenade from "Frasquita" (Lehár-Kreisler). 4. Melodies from "Hoheit tanzet Walzer" (Ascher). 5. "La Belle Galathée"—Overture (Suppé). 6. Melodies from "Das Schwarzwaldmädel" (Jessel). 7. Waltz from "The Czardas Princess" (Kalmán). 8. Melodies from "Paganini" (Lehár).
 5.0 p.m.—Time, Weather, and Agricultural Notes.
 5.15 p.m.—Talk, "The Mysticism of Alchemy."
 5.45 p.m.—Talk, "American Giant Fortunes—Morgan."
 6.15 p.m.—Spanish Lesson.
 6.45 p.m.—Time and Sports News.
 7.0 p.m.—"Gipsy Love"—Opérette (Lehár). News.

5.0 p.m.—Time, Weather, and Agricultural Notes.
 5.15 p.m.—Talk, "The Mysticism of Alchemy."
 5.45 p.m.—Talk, "American Giant Fortunes—Morgan."
 6.15 p.m.—Spanish Lesson.
 6.45 p.m.—Time and Sports News.
 7.0 p.m.—"Gipsy Love"—Opérette (Lehár). News.

TORONTO (Canada)

Toronto Star (CFCA). WL 357 m. (840 kc); 0.5 kw.
 5.0 p.m.—Weather, News and Exchange.
 7.0 p.m.—Chimes from London, England.
 9.30 p.m.—Programme from 2LO, London, England.
 10.45 p.m.—Exchange.
 11.20 p.m.—News and Weather.
 12.0 midnight—Canada Dry Ginger Ale Orchestra.
 1.0 a.m. (Thursday)—Musical Programme.
 1.30 a.m.—Tip Top Tailors Orchestra.
 3.20 a.m.—Musical Programme.
 5.0 p.m. (approx.)—Close Down.

WARSAW (Poland)

Polskie Radio. WL 1,111.1 m. (270 kc); 10 kw.
 11.0 a.m.—Time, Fanfare from the Tower of Notre Dame in Cracow, Aviation Report.
 2.0 p.m.—Weather and Agricultural Report.
 2.30 p.m.—Talk, "Poland and Moscow in their Historical Development."
 3.0 p.m.—Talk, "Overwork in Schools from the Point of View of Mental Hygiene."
 3.25 p.m.—News.
 3.40 p.m.—Answers to Correspondents.
 4.20 p.m.—Talk by the Ministry of Transport.
 4.45 p.m.—Programme relayed from Cracow.
 5.15 p.m.—Concert. 1. Dances from "Jacob the Lute Player" (Opieski). 2. Farewell to the Homeland (Oginski). 3. Kujawiak (Nowojewski). 4. Cracoyenne (Rajczak). 5. Oberek fantastique (Sornefeld). 6. Mazurka (Lewandowski).
 6.5 p.m.—Agricultural Report.
 6.15 p.m.—Variety.
 6.35 p.m.—Talk, "Along the Banks of the Polish Rivers."
 7.0 p.m.—Talk.

7.30 p.m.—Concert. 1. (a) "The Magic Flute"—Overture (Mozart); (b) Potpourri from "La Traviata" (Verdi). 2. Songs. 3. "William Tell"—Overture (Rossini). 4. Aria from "The Pearl Fishers" (Bizet). 5. (a) Fantasia on "La Juive" (Halévy), (b) March (Berlioz). In the interval: News in French.
 9.0 p.m.—Time, Aviation Report and Weather.

9.20 p.m.—Police News and Sports Notes.
 9.30 p.m. (approx.)—Close Down.

WILNO (Poland)

Polskie-Radio. WL 435 m. (689 kc); 0.5 kw.
 3.0 p.m.—News in Lithuanian.
 3.15 p.m.—Agricultural Report.
 3.30 p.m.—Children's Corner.
 3.55 p.m.—Literary Talk.
 4.20 p.m.—Talk for Students.
 4.45 p.m.—Talk, "Polish Music."
 5.10 p.m.—Orchestral Concert.
 6.0 p.m.—News.
 6.25 p.m.—Time and Variety.
 6.35 p.m.—Programme relayed from Warsaw.
 8.30 p.m.—Programme relayed from Warsaw.
 9.0 p.m.—News.
 9.15 p.m. (approx.)—Close Down.

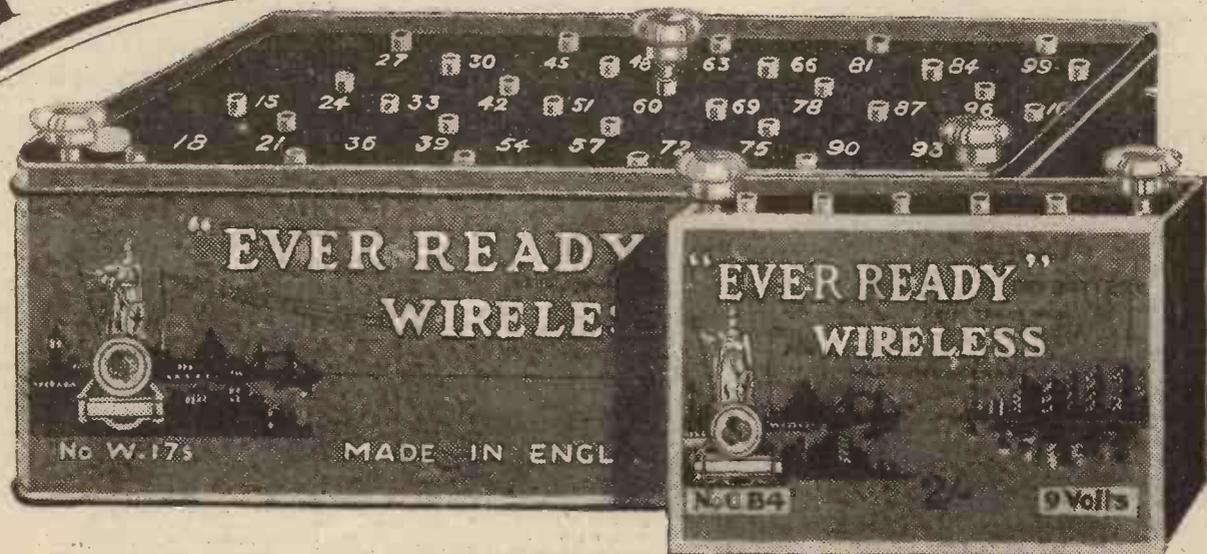
ZAGREB (Yugoslavia)

Radioklub-Zagreb. WL 310.5 m. (966 kc); 0.35 kw.
 12.15 p.m.—Gramophone Selections.
 12.30 p.m.—Exchange and News.
 4.30 p.m.—Children's Corner.
 5.0 p.m.—Concert.
 7.0 p.m.—History of Music.
 7.15 p.m.—French Lesson.
 7.30 p.m.—News.
 7.35 p.m.—Opérette.
 8.50 p.m.—News.
 9.0 p.m.—Gramophone Records.

ZURICH (Switzerland)

Radio-Genossenschaft. WL 588.2 m. (510 kc); 2 kw.
 11.30 a.m.—Time and Weather.
 11.32 a.m.—Orchestral Concert.
 11.50 a.m.—News.
 12.35 p.m.—Weather and Exchange.
 2.0 p.m.—Gramophone Records.
 3.0 p.m.—Orchestral Concert.
 4.10 p.m.—Programme for Young People.
 4.45 p.m.—Weather and Market Prices.
 6.30 p.m.—Time and Weather.
 7.0 p.m.—Beethoven Concert.
 8.0 p.m.—Songs to the Lute.
 9.0 p.m.—Weather and News.
 9.10 p.m. (approx.)—Close Down.

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PROGRAMMES FOR THURSDAY (April 12)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME

BARCELONA (Spain)

Radio Barcelona (EAJ). WL. 344.8 m. (870 kc); 1.5 kw. Transmits at intervals from 11.0 a.m. 8.40 p.m.—English Lesson. 9.0 p.m.—Chimes from the Cathedral and Weather. 9.5 p.m.—Exchange Quotations and News. 9.10 p.m.—Orchestral Selections: 1. "William Tell"—Overture (Rossini). 2. Melody (Fauré-Mouton). 9.25 p.m.—Song Recital. 9.30 p.m.—Exchange Closing Prices. 10.5 p.m.—"The Best Husband"—Play (Fontalba and Cervantes). 11.30 p.m. (approx.)—Close Down.

BASLE (Switzerland)

Basler - Radio - Genossenschaft. WL. 1,000 m. (300 kc); 0.25 kw. 6.30 p.m.—Programme from Berne. 7.0 p.m.—Soloist Concert from the Works of Paeisello, Rameau, Monigny, Mendelssohn, Chopin, Chausson, Brahms, David, Moszkovsky and Isai. 8.50 p.m.—News and Weather. 9.5 p.m. (approx.)—Close Down.

BERGEN (Norway)

Kringkastingselskap. WL. 369.9 m. (811 kc); 1.5 kw. Transmits at intervals from 10.15 a.m. 6.0 p.m.—Programme for boys. 7.0 p.m.—The Wireless Orchestra. 1. Comedy Overture (Keler Bela). 2. Potpourri from "Countess Maritza" (Kalman). 7.30 p.m.—Talk, "Bonaparte and Bernadotte". 8.0 p.m.—Programme from Oslo. 9.0 p.m.—Weather, News and Time. 9.15 p.m.—English Talk by Mr. F. L. M. Somerville. 9.30 p.m. (approx.)—Close Down.

BERLIN (Germany)

Königswusterhausen. WL. 1,250 m. (240 kc); 25 kw. 1.0 p.m.—Physics Talk. 1.30 p.m.—Talk for Children. 2.0 p.m.—Talk on "Dietetics." 2.35 p.m.—Weather and Market Prices. 2.40 p.m.—Talk, "Modern Recipes." 3.0 p.m.—Education Talk. 3.30 p.m.—Talk, "Space and Time." 4.0 p.m.—Concert relayed from Voxhaus. 5.0 p.m.—Talk. 5.30 p.m.—Spanish Lesson. 5.55 p.m.—Talk, "The Potato in the Sandy Soil of North Germany." 6.20 p.m.—Talk, "Heliand." 7.30 p.m.—Programme relayed from Voxhaus.

BERLIN (Germany)

Voxhaus. WL. 484.6 m (619 kc); 4 kw. Transmits at intervals from 9.10 a.m. 4.0 p.m.—Concert. 8.0 p.m.—Symphony Concert of Works by Joachim and Richard Strauss. 9.15 p.m.—News. 9.30 p.m.—Dance Music. 11.30 p.m. (approx.)—Close Down.

BERNE (Switzerland)

Radio-Berne. WL. 411 m. (730 kc.); 1.5 kw. 12.0 noon.—Time, Weather, Exchange, Market Prices and Gramophone Records. 2.56 p.m.—Time. 3.0 p.m.—The Kursaal Orchestra. 3.30 p.m.—Children's Corner. 4.0 p.m.—The Kursaal Orchestra. 6.30 p.m.—Time and Weather. 6.35 p.m.—"Stefan George" Programme Musical Interludes. 7.30 p.m.—The Kursaal Orchestra. 8.0 p.m.—Programme from Basle. 8.50 p.m.—News and Weather. 9.5 p.m.—The Kursaal Orchestra. 9.30 p.m. (approx.)—Close Down.

BRATISLAVA (Czecho-Slovakia)

Radio-Bratislava. WL. 300 m. (1,000 kc); 0.5 kw. 3.0 p.m.—Agricultural Report. 5.0 p.m.—Concert. 1. Violin Concerto, Op. 53 (Dvorak). 2. Songs (Michel and Adamov). 6.0 p.m.—Reading. 6.35 p.m.—Gramophone Records. 7.0 p.m.—Programme relayed from Prague.

BREMEN (Germany)

Norag. WL. 272.7 m. (1,100 kc); 0.75 kw. 1.15 p.m.—Reading of Animal Stories. 7.0 p.m.—Programme from Hamburg.

BRUNN (Czecho-Slovakia)

Komarov. WL. 441 m. (680 kc); 3 kw. Transmits at intervals from 11.15 a.m. 6.0 p.m.—Shorthand Dictation. 6.5 p.m.—Talk. 7.0 p.m.—Programme relayed from Prague.

BRUSSELS (Belgium)

Radio Belgique. WL. 508.5 m. (590 kc); 1.5 kw. 5.0 p.m.—Children's Corner. 6.0 p.m.—Flemish Lesson. 7.45 p.m.—Radio Chronicle. 8.15 p.m.—Orchestral Concert: 1. Semiramis (Rossini). 2. Mimi Pinson-Waltz (Goublier). 3. Andalusian Serenade (Griegh). 4. Kermesse Village Oise (Filippucci). 5. Le Biniou (Durand). 6. Selection from "The Damnation of Faust" (Berlioz). 7. "The Czardas Princess"—Selection (Kalmán). 8. Mephisto Waltz—Pianoforte Solo (Liszt). 9. Two Dances (Ganne). 10. Selection (Nicholls). 11. C'est vous (Greenberg). 12. Soirée intime (Lincke). 13. Chant d'amour (Albeniz). 14. En Espagne (Lacôme). 15. La Prière from "Le Cid" (Massenet). 16. Bhamen Suite (Sjode). In the Intervals, Talk on "St. Margaret of Cortona," Topical Review, and Literary Selection. 10.15 p.m.—News. 10.30 p.m.—Dance Music from the St. Sauveur Palais de Danse.

COLOGNE (Germany)

Westdeutscher Rundfunk. WL. 283 m. (1,060 kc); 4 kw. 1.30 p.m.—Orchestral Concert. 3.15 p.m.—Recitations. 4.0 p.m.—Literary Talk. 4.30 p.m.—See Langenberg. 5.0 p.m.—Concert from the Works of Wagner: 1. Soprano Solos: (a) Schiaf'ein, holds Kind; (b) Die Rose. 2. Sonata in A Major for Pianoforte. 3. Soprano Solos: (a) Die Erwartung; (b) Der Tennenbaum; (c) An unpublished Song (Siegfried Wagner). 6.15—8.45 p.m.—See Langenberg. 8.45 p.m.—Concert from Elberfeld See Langenberg, followed by Sports Notes, Concert and Dance Music. 11.0 p.m. (approx.)—Close Down.

COPENHAGEN (Denmark)

Copenhagen Radio. WL. 337 m. (890 kc); 1 kw. Relayed by Kalundborg on 1,153.8 m. (260 kc). Transmits at intervals from 6.30 a.m. 6.0 p.m.—News, Exchange and Time. 6.30 p.m.—Talk, "Sun Songs in Danish Poetry." 7.0 p.m.—Time, followed by a relay from the Odd-Fellows Hall. News.

CORK (Ireland)

Cork Broadcasting Station (6CK). WL. 400 m. (750 kc); 1.5 kw. 2.30 p.m.—Weather, Stock Market Report and Gramophone Records. 6.15 p.m.—Programme from Dublin.

CRACOW (Poland)

Polskie Radio. WL. 566 m. (530 kc); 1.5 kw. Transmits at intervals from 11.0 a.m. 6.5 p.m.—Agricultural Report. 6.15 p.m.—Variety. 6.30 p.m.—English Lesson. 7.0 p.m.—Fanfare from Notre Dame. 7.30 p.m.—Vocal Concert. 1. Selections from "Manon" (Massenet). 2. Arias from "Halka" (Moniuszko). 3. Songs from "La Bohème" (Puccini). 4. Quartet from "Rigoletto" (Verdi). 5. Quintet from "The Mastersingers" (Wagner). 9.0 p.m.—Programme from Warsaw. 9.30 p.m.—Concert from a Restaurant. 10.30 p.m. (approx.)—Close Down.

DUBLIN (Ireland)

Dublin Broadcasting Station (2RN). WL. 319.1 m. (940 kc); 1.5 kw. 1.30 p.m.—Stock Exchange List, Weather, and Gramophone Concert. 6.0 p.m.—Gramophone Concert. 6.15 p.m.—Children's Corner. 7.0 p.m.—Gramophone Concert. 7.20 p.m.—French Lesson by Mlle. Giudicelli. 8.0 p.m.—Light Music by the Station Orchestra. 8.10 p.m.—Soprano Solos by Hilda Dobbs. 8.20 p.m.—Fay Sargent and Jimmy O'Dea (Entertainers).

8.50 p.m.—Songs by Florrie Ryan. 9.0 p.m.—Talk, "Hints to Listeners," by an Engineer. 9.15 p.m.—Rogers May Dance Band. 10.30 p.m.—News, Weather Report and Close Down.

GENEVA (Switzerland)

Radio-Geneva. WL. 760 m. (395 kc); 0.5 kw. 5.0 p.m.—Gramophone Selections and News. 7.15 p.m.—News and Talk, "Across the World." 7.30 p.m.—Esperanto Talk. 7.40 p.m.—Concert by the Station Orchestra. 1. "Il Seraglio"—Overture (Mozart). 2. Peer Gynt—Suite 11 (Grieg). 3. Ma poupée chérie (Severac). 4. Berceuse (Gretchaninov). 5. Danse macabre (Saint-Saëns). 6. Suite Bergamasque (Debussy). 7. Castilla (Albeniz). 8.50 p.m.—News and Close Down.

HAMBURG (Germany)

Norag (ha, in Morse). WL. 396 m. (757 kc); 4 kw. 3.15 p.m.—Songs and Legends of the German Rhine, from Hanover. 7.0 p.m.—Silesian Programme.

HILVERSUM (Holland)

Algemeene Vereeniging Radio-Omroep. WL. 1069 m. (280.5 kc); 5 kw. 11.40 a.m.—Police News. 12.10 p.m.—Trio Concert. 2.40 p.m.—Programme for Hospitals. 3.40 p.m.—Talk for Women. 5.10 p.m.—Concert: 1. "Maritana"—Overture (Wallace). 2. Egyptian Ballet (Luigin). 3. Baritone Solo—Airs from "Tannhäuser" (Wagner). 4. Le pas des fleurs from "Naila" (Delibes). 5. Selection from "La Traviata" (Verdi). 6. Songs: (a) Air from "Mignon" (Thomas). (b) Airs from "Rigoletto" (Verdi). 7. Czardas No. 1 (Michiels). 8. Mein Lebenslauf ist Lieb und Lust (Jos. Strauss). 9. Selection from "Gri-Gri" (Lincke) 10. Finale. 6.55 p.m.—Advanced English Lesson. 7.25 p.m.—Police News. 7.55 p.m.—Symphony Concert from the Concert Hall, Amsterdam. In the Interval: Talk. 10.10 p.m.—Weather and News. 10.20 p.m.—Dancing Lesson.

HUIZEN (Holland)

WL. 340.9 m. (880 kc); 4 kw. (Until 5.40 p.m.). Transmits from 5.40 p.m. on 1,870 m. (160 kc). 12.10 p.m.—Vocal and Instrumental Concert. 5.40 p.m.—Education Talk. 7.10 p.m.—Education Talk. 8.10 p.m.—Baritone and Pianoforte Concert. Talk.

JUAN-LES-PINS (France)

Radio L.L. WL. 257 m. (1,167 kc); 0.25 kw. 1.0 p.m.—Orchestral Concert from the Casino: 1. Kunstlerleben (Strauss). 2. Silver Heels (Neil Moret). 3. L'Amoureuse Berceuse (Lévard). 4. Zampa (Herold). 5. Je Pense (Tosti). 6. First Movement from the First Symphony (Beethoven). 7. Lentement, Lentement (Filippucci). 8. Werther (Massenet). News during the interval. 9.0 p.m.—Symphony Concert. 10.0 p.m.—Dance Music. 10.30 p.m. (approx.)—Close Down.

KATTOWITZ (Poland)

Polskie-Radio. WL. 422 m. (710 kc); 12 kw. 3.20 p.m.—Finance Notes. 3.40 p.m.—Answers to Letters. 4.5 p.m.—News. 4.20 p.m.—Polish History Talk. 4.45 p.m.—Programme relayed from Warsaw. 5.55 p.m.—News and Announcements. 6.35 p.m.—Talk. 7.0 p.m.—Political Talk. 7.30 p.m.—Chamber Music. 1. Quartet in G, Op. 18 (Beethoven). 2. Quartet in F (Schumann). 9.0 p.m.—Time and News. 9.30 p.m.—Dance Music.

KIEL (Germany)

Norag. WL. 278 m. (1,076 kc); 0.7 kw. 3.15 p.m.—Scenes from "Macbeth" (Shakespeare). 7.0 p.m.—Programme from Hamburg

KOENIGSBERG (Germany)

Ostmarken Rundfunk. WL. 130.3 m. (908 kc); 1 kw. Relayed by Danzig on 272.7 m. (1,100 kc). 3.0 p.m.—Talk for Young People (Königsberg).

3.0 p.m.—Chimes (Danzig). 3.20 p.m.—Biography of Joseph Winkler (Danzig only). 3.30 p.m.—Concert. 5.20 p.m.—Talk, "The Turkish Poet Mehmed Akif." 6.20 p.m.—Talk, "The Development of Handicraft in East Prussia" (Königsberg only). 6.20 p.m.—Literary Talk (Danzig only). 6.55 p.m.—Weather. 7.0 p.m.—"The Magic Flute"—Opera (Mozart). Relayed from the East Prussian "Landestheater," followed by News and Weather.

KOVNO (Lithuania)

Radio Kaunas. WL. 2000 m. (150 kc); 1.5 kw. 4.30 p.m.—Talk, "The Revolution in Russia." 5.0 p.m.—News. 5.30 p.m.—Talk, "Guardian Angels." 6.0 p.m.—Time, Weather and News. 6.30 p.m.—Concert.

LANGENBERG (Germany)

Westdeutscher Rundfunk. WL. 470 m. (638 kc); 25 kw. Programme also for Aix-la-Chapelle 401 m. (748 kc); Cologne, 283 m. (1,060 kc); and Münster, 303 m. (990 kc). 1.10—4.30 p.m.—Programme from Cologne. 4.30 p.m.—Talk from Dortmund. 5.0—6.15 p.m.—Programme from Cologne. 6.15 p.m.—Spanish Lesson from Münster. 6.45 p.m.—Natural History Talk. 7.15 p.m.—Concert of Ball Music from Elberfeld: 1. (a) Invitation to the Dance (Weber); (b) Country Ball—Recitation (v. Vegesack). 2. (a) Minuet—Recitation; (b) Minuet (Mozart). 3. Gavotte—Recitation; (b) Gavotte (Gossec). 4. Contre-dance, Music and Recitation. 5. Spanish Dance—Recitation (Rilke). 6. Spanish Dance (Moszkovsky). 7. Hungarian Dance, Music, and Recitation. 8. (a) Grossmutter, will tanzen—recitation; (b) Grossmutterchen (Langer). 9. Peasant Dance—Recitation and Music. 10. Polka, Recitation and Music. 11. Valse—Recitation (Müller). 12. Kunstlerleben Waltz (Strauss). 13. Juss Recitation. 14. I Want to be Happy (Youmans). 15. After the Ball—Recitation (Hoefder). 16. Melody (Rubinstein). 8.45 p.m.—Concert from Elberfeld: 1. (a) Lenzlied (Braun); (b) Rudesheimer Wein (Hansen); (c) Studentennachgesang (Fischer). 2. Songs to the Lute. 3. (a) Stilleben (Kirchl); (b) Gestörtes Ständchen (Schaaf); (c) Mädel fin'k auf zum Tanz (Nageler); (d) Das wachsame Hähnchen (arr. v. Rebert). 4. Songs to the Lute. 5. My Song (Uthmann). Followed by Programme from Cologne.

LAUSANNE (Switzerland)

Société Romande de Radiophonie (HB2). WL. 680 m. (441 kc); 1.5 kw. Transmits at intervals from 6.45 a.m. 7.0 p.m.—Weather. 7.1 p.m.—Concert by the Decosterd Orchestra. 7.50 p.m.—Legal Talk.

MADRID (Spain)

Union Radio (EAJ7). WL. 375 m. (800 kc); 1.5 kw. Transmits at intervals from 11.45 a.m. 7.0 p.m.—Orchestral Selections: 1. A Wedding in Lilliput—Selection (Noletty). 2. El grumete—Selection (Arrieta). 3. Hamlet—Selection (Thomas). In the interval—Talk on "Greek Art—Phideas and the Parthenon." 8.0 p.m.—Dance Music—relayed from the Hotel Ritz. 9.30 p.m.—English Lesson. Programme relayed by San Sebastian. 10.0 p.m.—Time and Exchange Quotations. 10.2 p.m.—"Surprise Programme." 12.20 a.m. (Friday)—News. 12.30 a.m. (approx.)—Close Down.

MILAN (Italy)

Unione Radiofonica Italiana (r Mi). WL. 549 m. (546 kc); 7 kw. 3.5 p.m.—Quartet Concert. 4.50 p.m.—Children's Corner. 5.15 p.m.—Agricultural Report and News. 7.0 p.m.—English Lesson. 7.30 p.m.—Talk. 7.50 p.m.—Time and Science Talk. 8.0 p.m.—"Andrea Chenier"—Opera (Giordano).

8.30 p.m. (approx.)—Sports Notes. 9.55 p.m.—Sports Notes and News. 10.30 p.m. (approx.)—Close Down.

MUNICH (Germany)

Deutsche Stunde in Bayern. WL. 535.7 m. (560 kc); 4 kw. Relayed by Nürnberg, on 241.9 m. (1,240 kc); and Augsburg, on 566 m. (530 kc). Transmits at intervals from 10.0 a.m. 3.0 p.m.—Concert: 1. "The Marriage of Figaro"—Overture (Mozart). 2. Selection from "Il Trovatore" (Verdi). 3. "Faust"—Prelude (Gounod). 4. The First Two Minutes and Divertissement in D Major (Mozart). 5. Aus aller herren Länder (Moszkovsky). 6. Old Army March. 4.5 p.m.—Poultry Talk. 4.30 p.m.—Geological Talk. 5.15 p.m.—Pianoforte Recital: 1. Variations brillantes in B Flat Major (Chopin). 2. Etude in A Minor, Op. 25, No. 10 (Chopin). 5.30 p.m.—Agricultural Talk. 6.0 p.m.—Talk, "Ibsen." 6.20 p.m.—Talk on the following transmission. 6.30 p.m.—"Li-tai-pe"—Opera (Franckenstein) from the National Theatre, Munich. 9.10 p.m.—Talk.

OSLO (Norway)

Kringkastingselskapet. WL. 461.5 m. (650 kc); 1.5 kw. Relayed by Hamar on 555.8 m. (540 kc); Porsgrund, 500 m. (600 kc); Fredrikstad, 434.8 m. (600 kc); Notodden, 411 m. (730 kc), and Rjukan-488 m. (670 kc). 4.20 p.m.—Studio Service. 4.55 p.m.—Concert. 1. The Steppes of Central Asia (Borodine). 2. Popular Bulgarian Dances (Weninger). 3. Neapolitan Serenade (d'Ambrosio). 4. The Siamese Guard (Lincke). 5.56 p.m.—Shorthand Dictation. 6.15 p.m.—News. 6.30 p.m.—Elementary German Lesson. 7.0 p.m.—Time. 7.2 p.m.—Talk, "David Livingstone." 7.30 p.m.—Orchestral Concert, from Hamar. 8.0 p.m.—Cabaret. 9.0 p.m.—News and Weather. 9.15 p.m.—Topical Talk. 9.30 p.m. (approx.)—Close Down.

PARIS (France)

École Supérieure (FPTT). WL. 458 m. (655 kc); 0.5 kw. Transmits at intervals from 8 a.m. 1.0 p.m.—Transmission by the Institut Radiophonique. 2.0 p.m.—Concert: 1. Ballade (Debussy). 2. "A Masked Ball" (Verdi). 3. "Thérèse" (Massenet). 4. Sérénade Florentine (Godard). 6.0 p.m.—Radio-Journal de France. 8.0 p.m.—Espano Lesson. 9.0 p.m.—Gala Concert. 10.0 p.m.—Running Commentary on the Six Days' Cycle Race.

PARIS (France)

Eiffel Tower (FL). WL. 2650 m. (113 kc); 5 kw. 7.56 a.m.—Time Signal on 32 m. (9,375 kc). 9.26 a.m.—Time Signal. 5.45 p.m.—"Le Journal Paris." Talks on "The Independence of Women," "Books to Read," and "New Things in Wireless." 7.10 p.m.—Weather. 7.30 p.m.—Concert: 1. Orientale (de Taeye). 2. Six chants Poèmes (Lermentov). 3. (a) De Loin, je veux vous dire; (b) L'ennui; (c) Le ciel et les étoiles. 4. Songs with "Cello accompaniment: (a) Stances, (b) Comtesse Emilio; (c) Mon voisin. 5. (a) La légende d'un papillon. (b) Impression d'Orient (Colomb). 6. Le Muezzin (Colomb). 7. Divertissement de Miarka (Georges). At 7.56 p.m. Time Signal on 32 m. (9,375 kc). 8.30 p.m.—Educational Programme. Talks on "Musical Technique," "The Art of Singing," and "Art." 10.26 p.m.—Time Signal.

PARIS (France)

Petit Parisien. WL. 340.9 m. (880 kc); 0.5 kw. 9.0 p.m.—Chamber Music: 1. Leondre Overture No. 3 (Beethoven). 2. Flute Sonata (Bach). 3. Sonata for Flute and Pianoforte (Handel) Pastoral Symphony (Beethoven). 4. Concertino for Flute and Orchestra (Chaminade). 5. Prelude to "L'Après-midi d'un Faune" (Debussy). 6. Polonaise and Baderina from the Suite in B Minor (Bach). Concerto in G Minor for Flute and Orchestra (Mozart). 8. Selections from "Namuona" (Lalo).

Programmes for Thursday.—(Cont.)

PARIS (France)

Radio-Paris (CFR). WL. 1,750 m. (171 kc); 3 kw.
 7.30 a.m.—Physical Culture.
 8.0 a.m.—News.
 10.30 a.m.—News and Musical Selections.
 12.0 noon.—Protestant Address.
 12.30 p.m.—Orchestral Concert. 1. "Egmont"—Overture (Beethoven). 2. Segovia (Roussel). 3. (a) Le vieux (Clocher), (b) Tennis Flirt (Porret). 4. Giroflé-Girofla (Lecocq). 5. Pianoforte Solos (Chopin): (a) Etude in A flat, (b) Waltz in C sharp. 6. Soir (Fauré). 7. Two Pieces for Orchestra (Niverd). 8. Faust (Schumann). 9. Cypriane (Pierné). News in the interval.
 1.30 p.m.—Market Prices.
 3.30 p.m.—Exchange Quotations.
 3.45 p.m.—Poet Programme.
 4.45 p.m.—Exchange and News.
 7.0 p.m.—Agricultural Report.
 8.0 p.m.—Exchange and News.
 8.15 p.m. (approx.)—Esperanto Talk.
 8.30 p.m.—"La Tosca"—Opera Selection (Puccini). News in the interval.

PITTSBURGH (U.S.A.)

Westinghouse Electric (KDKA). WL. 315.6 m. (950 kc); 50 kw.
 10.0 p.m.—University of Pittsburgh Address.
 10.10 p.m.—KDKA Theatrical Calendar.
 10.15 p.m.—KDKA Little Symphony Orchestra, Victor Saudek—Conductor, playing in the Lobby of the William Penn Hotel, Pittsburgh.
 11.0 p.m.—Time, "Automatic Agitators."
 12.0 midnight.—2.0 a.m. (Friday)—Programme from WJZ, New York. "Retold Tales."
 12.30 a.m.—"Ampico Hour."
 1.0 a.m.—"Maxwell Hour."
 2.0 a.m.—"The Continentals."
 3.0 a.m.—Time and Weather Report.

POSEN (Poland)

Polskie-Radio. WL. 344 m. (872 kc); 1.5 kw.
 Transmits at intervals from 11.5 p.m.
 4.20 p.m.—Talk, "The Football Season."
 4.45 p.m.—Literary Talk.

PRAGUE (Czecho-Slovakia)

5.45 p.m.—Variety Item.
 6.10 p.m.—English Lesson.
 6.35 p.m.—Agricultural Talk.
 7.0 p.m.—Talk "Aims and Tendencies of the Society of Sculptors."
 7.15 p.m.—Finance Notes.
 7.30 p.m.—Programme from Cracow.
 9.0 p.m.—Time and Variety Item.
 9.20 p.m.—News and Weather.
 Stranice. WL. 348.9 m. (860 kc); 5 kw.
 Transmits at intervals from 10.0 a.m.
 6.30 p.m.—Orchestral Concert.
 7.0 p.m.—Symphony Concert by the Czech Philharmonic Orchestra.
 1. Symphony in E major (Suk). 2. Serenade (Dvorák). 3. Tod und Verklärung (Strauss).
 9.0 p.m.—Time and News.

ROME (Italy)

Unione Radiofonica Italiana (IRO). WL. 448.4 m. (669 kc); 3 kw.
 11.30 a.m.—Government Report.
 12.30 p.m.—Trio Concert.
 1.30 p.m.—Exchange and News.
 3.40 p.m.—News and Exchange.
 4.15 p.m.—Agricultural Report.
 4.30 p.m.—Time.
 4.32 p.m.—Vocal and Instrumental Concert and Dance Music from the "Casinetta."
 7.0 p.m.—French Lesson.
 7.30 p.m.—Time, News, Exchange and Weather.
 7.45 p.m.—Concert. 1. The Orchestra: (a) "Libussa"—Overture (Smetana), (b) Hymn to Saint Cecilia (Gounod). 3. Soprano Solos: (a) "Posate, dormite" (Bassani), (b) "Già, il sole dal Gange (Scarlatti). 4. Talk, "Italian Sculpture." 5. Concerto in E minor for Violin, Op. 64 (Mendelssohn). 6. Science Talk. 7. Soprano Solos: (a) Berceuse (Tedesco), (b) Lia's Aria from "L'Enfant prodigue" (Debussy). 8. Danse macabre (Saint-Saëns). 9. Selection from "The Valkyrie" (Wagner).
 9.55 p.m.—News.
 10.0 p.m. (approx.)—Close Down.

SCHENECTADY (U.S.A.)

General Electric Company (WGY). WL. 379.5 m. (790 kc); 50 kw.
 Relayed by 2XAF on 31.4 m. (9,554 kc) from 10.0 p.m., and

2 XAD 27.96 m (13,661 kc) from 6-8 p.m.
 11.45 a.m.—Exercises.
 12.0 p.m.—"Cheerio" Talk and Music.
 3.15 p.m.—"Radio Household Institute" Talk from New York.
 3.55 p.m.—Time and Weather.
 4.2 p.m.—Produce Report.
 4.7 p.m.—"Farm Flashes."
 4.30 p.m.—Stock, Cotton and Grain Market Prices.
 4.43 p.m.—Weather.
 6.0 p.m.—The Hotel Van Curler Orchestra.
 6.30 p.m.—A One-Act Play by the WGY Matinee Players.
 10.0 p.m.—Exchange and News.
 10.30 p.m.—Dinner Music from the Kenmore Hotel, conducted by Ted Fiorito and his Orchestra.
 11.30 p.m.—Address, "Engineering as a Vocation," by Professor Hugh Hugh Miller, of Union College.
 11.45 p.m.—Musical Programme. The following programme from New York.
 12.0 midnight—"Dodge" Programme.
 12.30 a.m. (Friday)—The Hoover Sentinels.
 1.0 a.m.—Time.
 1.2 a.m.—Musical Programme.
 2.0 a.m.—Carborundum Band from Niagara Falls.
 3.0 a.m.—Dance Music from New York.
 3.30 a.m.—Organ Recital by Floyd Walter, from the Strand Theatre, Albany, N.Y.
 4.30 a.m. (approx.)—Close Down.

STOCKHOLM (Sweden)

Radiotjänst (SASA). WL. 453.8 m. (661 kc); 1.5 kw. Relayed by Moiala on 1,380 m. (217 kc); Göteborg, 416.7 m. (720 kc); Malmö, 260.9 m. (1,150 kc) and Sundsvall, 545.6 m. (550 kc).
 4.30 p.m.—Studio Service.
 5.0 p.m.—Children's Corner.
 5.30 p.m.—Light Music.
 6.0 p.m.—History Talk.
 6.30 p.m.—Selection from "Peer Gynt" (Ibsen-Grieg).
 6.45 p.m.—Concert of String Music from Göteborg. 1. Serenade in F No. 2 (Volkmann). 2. Angelus (Liszt). 3. Serenade (Trunk).
 7.45 p.m.—Talk, "The Indians in Panama."
 8.15 p.m.—News and Weather.
 8.40 p.m.—French Recital.
 9.0 p.m. (approx.)—Close Down.

STUTTGART (Germany)

Süddeutscher Rundfunk. WL. 380.7 m. (788 kc); 4 kw.
 Transmits at intervals from 11.30 p.m.
 3.15 p.m.—Concert: 1. "Oberon"—Overture (Weber); 2. Violin Solos: (a) Légende (Wieniawski), (b) Romance (Wieniawski). 3. Selection from "Mephistopheles" (Boito). 4. Selection from "Si j'étais roi" (Adam). 5. "Maurer und Schlosser"—Overture (Auber). 6. Serenata amorosa (Beccia). 7. Wiener Zugvogel—Waltz (Translatour). 8. Radio March (Bou-langer).
 5.0 p.m.—Talk, "The Way to International Economy," from Freiburg, 575.8 m. (521 kc).
 5.45 p.m.—Talk, "Dental Diseases."
 6.15 p.m.—Talk from Karlsruhe.
 6.45 p.m.—Talk, "Correct and Incorrect Commercial Language."
 7.15 p.m.—Variety Concert from Freiburg.
 8.15 p.m.—Programme of German Prose and Poetry of the last Hundred Years.
 9.45 p.m.—News.
 10.0 p.m. (approx.)—Close Down.

TORONTO (Canada)

Toronto Star (CFCA). WL. 357 m. (840 kc); 0.5 kw.
 5.0 p.m.—Weather, News and Exchange.
 7.0 p.m.—Climes from London, England.
 9.30 p.m.—Programme from 2LO, London, England.
 10.45 p.m.—Exchange.
 11.20 p.m.—News and Weather.
 1.0 a.m. (Friday)—The Star Weekly Entertainers.
 4.0 a.m.—Harold Rich-Morris London Versatile Canadians, from the Palais Royale at Sunnyside.

WARSAW (Poland)

Polskie - Radio. WL. 114.1 m. (270 kc); 10 kw.
 11.0 a.m.—Time, Fanfare from the Tower of Notre Dame in Cracow, Aviation Report and Weather.
 11.5 a.m.—Talk, "Nature and Man in the Month of April."
 2.0 p.m.—Weather and Agricultural Report.
 2.20 p.m.—Talk, "The Vienna Congress in 1815."

3.25 p.m.—Programme for Boy Scouts
 3.40 p.m.—Talk for Women.
 4.20 p.m.—Review of Books.
 4.45 p.m.—Literary Talk.
 6.5 p.m.—Agricultural Report.
 6.15 p.m.—Variety.
 6.35 p.m.—Agricultural Report.
 7.5 p.m. (approx.)—Talk.
 9.0 p.m.—Time, Aviation Report and Weather.
 9.5 p.m.—News, Police News and Sports Notes.
 9.30 p.m.—Dance Music.
 10.30 p.m. (approx.)—Close Down.

WILNO (Poland)

Polskie-Radio. WL. 435 m. (680 kc); 0.5 kw.
 3.0 p.m.—News in Lithuanian.
 3.15 p.m.—Talk for Boy-scouts.
 3.30 p.m.—Talk.
 3.55 p.m.—Agricultural Talk.
 4.20 p.m.—Programme relayed from Warsaw.
 6.0 p.m.—News.
 6.25 p.m.—Time and Variety.
 6.35 p.m.—Natural Science Talk.
 7.30 p.m.—Orchestral Concert.
 9.0 p.m.—News.
 9.30 p.m.—Dance Music.
 10.30 p.m. (approx.)—Close Down.

ZAGREB (Yugoslavia)

Radioklub-Zagreb. WL. 310.5 m. (966 kc); 0.35 kw.
 12.15 p.m.—Gramophone Selections.
 12.30 p.m.—Exchange and News.
 4.30 p.m.—Concert.
 6.0 p.m.—Talk on "Cosmetics."
 6.15 p.m.—Announcements.
 6.30 p.m.—Programme from Prague.

ZURICH (Switzerland)

Radio - Genossenschaft. WL. 588.2 m. (510 kc); 2 kw.
 11.30 a.m.—Time and Weather.
 11.32 a.m.—Gramophone Records.
 11.50 a.m.—News.
 12.35 p.m.—Weather and Exchange.
 2.0 p.m.—Orchestral Concert.
 3.0 p.m.—Orchestral Concert.
 4.10 p.m.—Children's Corner.
 4.45 p.m.—Weather.
 6.30 p.m.—Time and Weather.
 6.32 p.m.—Talk, "Adam Smith the Political Economist."
 7.0 p.m.—Chamber Music.
 7.40 p.m.—Orchestral Concert.
 8.20 p.m.—Concert of International Popular Songs.
 9.0 p.m.—Weather and News.
 9.10 p.m. (approx.)—Close Down.

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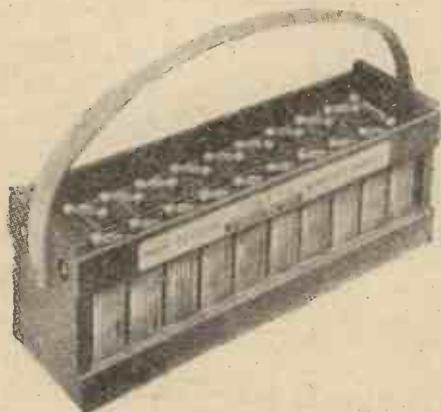
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PROGRAMMES FOR FRIDAY (April 13)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME.

BARCELONA (Spain)
Radio Barcelona (EAJ). WL. 344.8 m. (870 kc); 1.5 kw.
Transmits at intervals from 11.0 a.m.
6.30 p.m.—Sextet Selections.
8.30 p.m.—Elementary Music Lesson.
9.0 p.m.—Chimes from the Cathedral and Weather.
9.5 p.m.—Exchange Quotations and News.
9.10 p.m.—Selections by the Cobia Barcelona.
10.0 p.m.—Exchange Closing Prices.
10.5 p.m.—Soprano Song Recital: 1. Vieni—Romance (Denza). 2. Il Piccolo Marat—Romance (Mascagni). 3. "Mignon"—Romance (Thomas). 4. "Cavalleria Rusticana"—Romance (Mascagni).
10.30 p.m.—Orchestral Selections.
11.0 p.m. (approx.)—Close Down.

BASLE (Switzerland)
Basler-Radio-Genossenschaft. WL. 1,000 m. (300 kc); 0.25 kw.
6.30 p.m.—Time and Weather.
6.35 p.m.—Talk, "Josephine Butler."
7.0 p.m.—Programme from Berne.
7.30 p.m.—Recitations.
8.0 p.m.—Orchestral Gramophone Records.
8.50 p.m.—News and Weather.
9.5 p.m. (approx.)—Close Down.

BERGEN (Norway)
Kringkastingselskap. WL. 369.9 m. (811 kc); 1.5 kw.
Transmits at intervals from 10.15 a.m.
7.0 p.m.—The Wireless Orchestra.
1. "Hamlet"—Overture (E. Bach).
2. Valse triste (Sibelius). 3. Potpourri on Finnish Folk Songs (Herman).
7.30 p.m.—Talk, "Poultry Breeding."
8.0 p.m.—Hardanger Fiddle Recital.
8.30 p.m.—The Wireless Orchestra.
1. "Adelaide" (Beethoven). 2. Fantasia (Schubert).
9.0 p.m.—Weather, News, and Time.
9.15 p.m.—English Talk, by Mr. F. L. M. Somerville.
9.30 p.m. (approx.)—Close Down.

BERLIN (Germany)
Königswusterhausen. WL. 1,250 m. (240 kc); 35 kw.
1.30 p.m.—Children's Songs.
2.0 p.m.—Talk, "The Man of 50."
2.35 p.m.—Weather and Market Prices.
3.0 p.m.—Technical Talk.
3.30 p.m.—Talk, "The Film and Broadcasting."
4.0 p.m.—Concert relayed from Leipzig.
5.0 p.m.—Talk, "Money and Gold in the History of the Nations."
5.30 p.m.—English Lesson.
5.55 p.m.—Talk.
6.20 p.m.—Talk for Dentists.
7.30 p.m.—Programme relayed from Voxhaus.

BERLIN (Germany)
Voxhaus. WL. 484.6 m. (619 kc); 4 kw.
Transmits at intervals from 9.10 a.m.
7.30 p.m.—"Pop"—An American Song Book by Lion Feuchtwanger.
8.0 p.m.—Concert of German Folk Songs: Soprano, Contralto, Tenor and Baritone Solos.
9.15 p.m.—News.
9.30 p.m.—Dance Music and Tenor Songs.
10.30 p.m. (approx.)—Close Down.

BERNE (Switzerland)
Radio-Berne. WL. 411 m. (730 kc); 1.5 kw.
12 noon—Time, Weather, Exchange, and Gramophone Dance Music.
2.56 p.m.—Time.
3.0 p.m.—The Kursaal Orchestra.
3.30 p.m.—Programme for the Housewife.
4.0 p.m.—The Kursaal Orchestra.
6.30 p.m.—Time and Weather.
6.35 p.m.—Talk, "The Week's Music."
7.30 p.m.—The Kursaal Orchestra.
8.0 p.m.—Accordeon Concert.
8.20 p.m.—The Kursaal Orchestra.
News and Weather in the interval.
9.30 p.m. (approx.)—Close Down.

BRATISLAVA (Czechoslovakia)
Radio-Bratislava. WL. 300 m. (1,000 kc); 0.5 kw.
5.0 p.m.—Concert: 1. Quintet (Beethoven). 2. Divertimento, No. 2 (Mozart).
6.5 p.m.—Reading.
6.35 p.m.—Gramophone Records.
7.0 p.m.—Programme relayed from Prague.

BRUNN (Czechoslovakia)
Komarov. WL. 441 m. (680 kc); 3 kw.
Transmits at intervals from 11.0 a.m.
6.40 p.m.—English Lesson.
7.0 p.m.—Sonata for Violin.
7.30 p.m.—"The Cloud"—Drama.
9.0 p.m.—Popular Concert.

BRUSSELS (Belgium)
Radio Belgique. WL. 508.5 m. (590 kc); 1.5 kw.
5.0 p.m.—Trio Concert.
7.45 p.m.—Radio Chronique.
8.15 p.m.—Organ Recital: 1. Allegro (De Boeck). 2. Improvisation caprice (Jongen). 3. Chorale in A (Franck). 4. Piques fleuries (Maily). 5. Toccata (Maily).
8.45 p.m.—Orchestral Concert: 1. Allegro from a Quintet (Mozart). 2. "The Creation"—Aria (Handel). 3. Rhapsody for Wind Instruments and Piano (Jongen). 4. (a) Violette, fleurs celines (Scarlati). (b) La jeune religieuse (Schubert). (c) Snegoroutchka (Rimsky-Korsakoff). In the Interval—Topical Talk.
9.35 p.m.—Talk and Reading.
9.55 p.m.—Sextet for Pianoforte and Wind Instruments.
10.15 p.m.—News.
10.30 p.m. (approx.)—Close Down.

COLOGNE (Germany)
Westdeutscher Rundfunk. WL. 283 m. (1,060 kc); 4 kw.
12.0 noon—See Langenberg.
3.0 p.m.—Recitations.
3.30 p.m.—Children's Corner.
4.10 p.m.—Commerce Talk.
4.25 p.m.—Topical Talk.
4.30 p.m.—Legal Talk.
5.30 p.m.—See Langenberg.
6.15 p.m.—English Lesson.
6.45 p.m.—See Langenberg.
7.15 p.m.—Concert from Münster (See Langenberg), followed by Sports Notes and Concert from the Café Handelshof, Essen.
11.0 p.m. (approx.)—Close Down.

COPENHAGEN (Denmark)
Copenhagen Radio. WL. 337 m. (890 kc); 1 kw. Relayed by Kalindborg, on 1,153.8 m. (260 kc).
5.30 p.m.—Talk, "The Quack Doctor and Medical Science."
6.0 p.m.—News, Exchange and Time.
6.30 p.m.—Talk on Ear Diseases.
7.0 p.m.—Chimes, followed by Wireless Play. News.
8.45 p.m.—Concert of Spanish Music: 1. (a) Granados—Serenade from the Suite espagnole" (Albeniz), (b) Capricho catalan (Albeniz), (c) Tango (Albeniz). 2. Selection from "La Gran Via" (Valverde). 3. Folk Songs: (a) Cachuca, (b) La Tyrana, (c) Seguidillas jitanas, (d) Cancion espanola. 4. (a) Andaluza—Spanish Dance, (b) Mauresque (Granados). 5. Aragonese (Falla). 6. Tu, Habanera (Fuentes). 7. Folk Songs (a) Bolero, (b) Tirana, (c) Fandango.

CORK (Ireland)
Cork Broadcasting Station (6CK). WL. 400 m. (750 kc); 1.5 kw.
2.30 p.m.—Weather, Stock Market Report and Gramophone Records.
6.15 p.m.—Programme from Dublin.

CRACOW (Poland)
Polskie-Radio. WL. 566 m. (530 kc); 1.5 kw.
Transmits at intervals from 11.0 a.m.
6.5 p.m.—Agricultural Report.
6.15 p.m.—Variety.
6.35 p.m.—Talk, "A Review of Radio."
7.0 p.m.—Fanfare from Notre Dame.
7.15 p.m.—Programme from Warsaw.

DUBLIN (Ireland)
Dublin Broadcasting Station (2RN). WL. 319.1 m. (940 kc); 1.5 kw.
1.30 p.m.—Stock Exchange List, Weather, and Gramophone Concert.
6.0 p.m.—Gramophone Concert.
6.15 p.m.—Children's Corner.
7.0 p.m.—Gramophone Concert.
7.20 p.m.—News.
7.30 p.m.—Gardening Talk by G. O. Sherrard.
7.45 p.m.—Italian Lesson by de Starkie.
8.0 p.m.—National Symphony Concert, conducted by Sir Henry Wood, relayed from Queen's Hall, London.
9.0 p.m.—Recitations by J. K. Ayre.
9.10 p.m.—Clarinet Selections by Pat Ryan.
9.20 p.m.—Sketch, by John McDonagh and Company.
10.0 p.m.—Alexander McCredie (Tenor).
10.15 p.m.—Pat Ryan (Clarinet).
10.20 p.m.—Station Orchestra.
10.30 p.m.—News, Weather Report and Close Down.

GENEVA (Switzerland)
Radio Geneva. WL. 760 m. (395 kc); 0.5 kw.
5.0 p.m.—Children's Corner and News.
7.15 p.m.—News.
7.20 p.m.—Concert: 1. "The Thieving Magpie"—Overture (Rossini). 2. "Lakmé"—Vocal Duet (Delibes). 3. Air from "L'Africaine" (Meyerbeer). 4. "Madame Butterfly"—Vocal Duet (Puccini). 5. Clarinet and Pianoforte Selection—Sonata (Brahms). 6. Air from "Madame Butterfly" (Puccini). 7. Vocal Duet from "Le Roi d'Ys". 8. "Si j'étais Roi"—Overture (Adam).
8.20 p.m.—News and Close Down.

HAMBURG (Germany)
Norag (ha, in Morse). WL. 306 m. (757 kc); 4 kw. Relayed by Bremen on 272.7 m. (1,100 kc); and Kiel, 278 m. (1,076 kc).
3.15 p.m.—Reading from the Works of Erik Brädt (Hamburg only).
3.15 p.m.—Bandolion Concert (Bremen only).
3.15 p.m.—"Wanderbilder" (Kiel only).
4.0 p.m.—Children's Corner.
7.0 p.m.—Concert organised by the Police Force.

HANOVER (Germany)
Norag. WL. 297 m. (1,010 kc); 0.7 kw.
3.15 p.m.—Talk on the Opera "Beatrys."
4.0 p.m.—Programme from Hamburg.
7.0 p.m.—National Concert.

HILVERSUM (Holland)
Algemeene Vereeniging Radio-Omroep. WL. 1,069 m. (280.5 kc); 5 kw.
11.40 a.m.—Police News.
12.10 p.m.—Trio Concert.
5.10 p.m.—Concert: 1. "Peter Schmoell"—Overture (Weber). 2. Swedish Sketches (Petras). 3. Alhambra (Semler). 4. Soprano Solos. 5. April's Lady (Aciffie). 6. Selection from "Robert le diable" (Meyerbeer). 7. Soprano Solos. 8. Träumerei (Schumann). 9. Ständchen (Schubert). 10. Selection from "Countess Mariza" (Kailman). 11. Finale.
6.55 p.m.—Talk.
7.25 p.m.—Police News.
7.45 p.m.—Talk.
8.15 p.m.—Concert of Chamber Music.
10.10 p.m.—Weather and News.
10.20 p.m.—Dance Music.
11.40 p.m. (approx.)—Close Down.

HUIZEN (Holland)
WL. 340.9 m. (880 kc); 4 kw. (Until 5.40 p.m.). Transmits from 5.40 p.m. on 1,870 m. (160 kc).
12.10 p.m.—Trio Concert.
2.40 p.m.—Programme for Women.
3.40 p.m.—Gramophone Music.
4.40 p.m.—Vocal and Pianoforte Concert.
6.40 p.m.—Gregorian Lesson from the Seminary at Heemstede.
7.45 p.m.—Flemish Concert. Talk.

JUAN-LES-PINS (France)
Radio L.L. WL. 246 m. (1,220 kc); 0.25 kw.
1.0 p.m.—Orchestral Concert: 1. Fin de Siècle (Waldteufel). 2. Serenata Andaluza (Rucker). 3. Ecoutez Cette Histoire (Razigade). 4. "Light Cavalry" (Suppé). 5. Goodbye (Tosti). 6. Romance (Scassola). 7. "Rose Marie" (Friml). 8. Serenade de Pencho (Chantrier). 9. Mattinata (Leoncavallo). 10. "Damnation of Faust" (Berlioz). News in the interval.
9.0 p.m.—Symphony Concert.
10.0 p.m.—Dance Music.
10.30 p.m. (approx.)—Close Down.

KATTOWITZ (Poland)
Polskie-Radio. WL. 422 m. (710 kc); 12 kw.
3.20 p.m.—Finance Notes.
3.40 p.m.—Talk.
4.5 p.m.—News.
4.20 p.m.—Polish Lesson.
4.45 p.m.—Mandoline Concert.
5.55 p.m.—News.
6.15 p.m.—Announcements.
6.30 p.m.—Talk, "The Resurrection in Art."
6.55 p.m.—Talk on "The History of Music."
7.15 p.m.—Programme relayed from Warsaw.
9.0 p.m.—Time and News.
9.30 p.m.—Answers to Letters for Foreigners in French.

KONIGSBERG (Germany)
Ostmarken Rundfunk. WL. 330.3 m. (908 kc); 1 kw. Relayed by Danzig on 272.7 m. (1,100 kc).
3.0 p.m.—Talk on "Insurance" (Königsberg only).
3.0 p.m.—Talk for the Housewife (Danzig only).
3.30 p.m.—Concert of German Opera Music: 1. "Oberon"—Overture (Weber). 2. Immortelkranz auf das Grab Lortzings (Rosenkranz). 3. Selection from "The Merry Wives of Windsor" (Nicolaï). 4. Selection from "Der Freischütz" (Weber). 5. "Hans Heiling"—Overture (Marschner).
5.30 p.m.—Talk, "Potato Growing in East Prussia."
6.0 p.m.—Talk.
6.30 p.m.—Spanish Lesson.
7.10 p.m.—"Willy Buschhoff" Programme.
8.15 p.m.—Concert: 1. Pas d'Espagne (Zarman). 2. Valse triste (Veasey). 3. "Selection from Paganini" (Lehár). 4. Salut d'amour (Elgar). 5. Frühlingsstaudchen (Lehár). 6. Mädchenaugen—Waltz (Künnecke). 7. Cello Solo from "Thais" (Massenet). 8. Daynah. 9. Sternbanner—March (Souza).
8.15 p.m.—Pianoforte Trio Recital (Danzig only). 1. Trio, Op. 8 (Pfitzner). 2. Trio (Ravel).

KOVNO (Lithuania)
Radio Kaunas. WL. 2,000 m. (150 kc); 15 kw.
4.30 p.m.—Talk.
5.0 p.m.—Talk, "The Anti-Tuberculosis Campaign."
5.30 p.m.—News in English.
6.0 p.m.—Time, Weather and News.
6.30 p.m.—Concert.

LANGENBERG (Germany)
Westdeutscher Rundfunk. WL. 470 m. (638 kc); 25 kw. Programme also for Aix-la-Chapelle, 401 m. (748 kc); Cologne, 283 m. (1,060 kc); and Münster 303 m. (990 kc).
12.0 noon—Orchestral Concert from Düsseldorf.
3.0—4.0 p.m.—Programme from Cologne.
5.0 p.m.—Variety from Düsseldorf.
6.15 p.m.—Programme from Cologne.
6.45 p.m.—Talk from Düsseldorf.
7.15 p.m.—Concert from Münster: 1. Recitations. 2. Two Baritone Solos (Sterlin). 3. Recitations. 4. (a) Pastoral Music; (b) Die Kuh und die Rube (Kniep); (c) Die Schnecken (Dörfler); (d) Pastoral Dance followed by Sports Notes from Cologne and Concert from the Café Handelshof, Essen.

LAUSANNE (Switzerland)
Société-Romande de Radiophonie (HBz). WL. 680 m. (441 kc); 1.5 kw.
Transmits at intervals from 6.45 a.m.
7.0 p.m.—Weather.
7.1 p.m.—Literary Talk, "Philippe Monnier."
7.30 p.m.—Programmes from Geneva and Berne.

MADRID (Spain)
Union Radio (EAJ). WL. 375 m. (800 kc); 1.5 kw.
Transmits at intervals from 11.45 a.m.
7.0 p.m.—Concert of Chamber Music: 1. Quartet No. 14 in D Minor (Mozart). 2. Songs. 3. Trio (Bretón). 4. Songs: (a) Oh quand je dors (Liszt), (b) In questa tomba oscura (Beethoven), (c) Le mariage des roses.
9.30 p.m.—English Lesson.
10.0 p.m.—Time and Exchange Quotations.
10.2 p.m.—Concert, relayed from the Hotel Nacional.
12.0 (midnight)—Dance Music, relayed from the Alcazar.
12.20 a.m. (Saturday)—News.
12.30 a.m. (approx.)—Close Down.

MILAN (Italy)
Unione Radiofonica Italiana (IMI). WL. 549 m. (546 kc); 7 kw.
4.5 p.m.—Dance Music.
4.50 p.m.—Agricultural Report, News.
7.0 p.m.—German Lesson.
7.30 p.m.—Talk.
7.50 p.m.—Concert: 1. "Titus"—Overture (Mozart). 2. Choral Selections. 3. Literary Talk. 4. Old Arias and Dances (Respighi). 5. Nocturnes (Debussy). 6. Prelude and Death of Isolde (Wagner).
9.55 p.m.—News.
10.0 p.m.—Dance Music from the Fiaschetteria Toscana.
10.30 p.m. (approx.)—Close Down.

MUNICH (Germany)
Deutsche Stunde in Bayern. WL. 535.7 m. (560 kc); 4 kw. Relayed by Nürnberg on 241.9 m. (1,240 kc), and Augsburg on 566 m. (530 kc).
Transmits at intervals from 10.20 a.m.
1.45 p.m.—Programme for Women.
3.0 p.m.—Orchestral Concert.
4.5 p.m.—Talk, "The Beauty of France."
5.15 p.m.—Trio Concert: 1. Nutcracker Suite (Tchaikovsky). 2. Minuet (Schubert). 3. Elfenreigen (Feichtinger). 4. Caprice (Wallnoser). 5. Slavonic Fantasia for Violin (Dvorák-Kreisler). 6. Hungarian Rhapsody No. 2 (Liszt).
6.15 p.m.—Talk.
7.5 p.m.—Symphony Concert: 1. Variations on a German Folksong (Haas). 2. Concerto for Pianoforte in B flat minor in one movement (Rath). 3. Judith—Symphonic Poem (Reuss).
8.10 p.m.—Friedrich Kayser Recital.
9.0 p.m.—Sports Talk.
9.20 p.m.—Wireless Notes.
9.30 p.m.—Report of Winter Sports.

NAPLES (Italy)
Unione Radiofonica Italiana (I.N.A.). WL. 333.3 m. (900 kc); 1.5 kw.
3.50 p.m.—Talk for Women.
3.58 p.m.—Commerce Talk.
4.0 p.m.—Concert: 1. Minuet (Paderewsky). 2. Soprano Solo. 3. Adagio in E major (Haydn). 4. Soprano Solo (Mascagni). 5. Trio Selection from "Andrea Chenier" (Giordano). 6. Soprano Aria, "Date bacio al mio dolore" (Donauti). 7. Barcarolle (Boschi). 8. Czardas (Cerno). 9. Soprano Solo. 10. Arabian Serenade (Frontini).
4.30 p.m.—Time.
7.40 p.m.—News.
7.48 p.m.—Harbour Notes.
7.50 p.m.—"Zaza"—Musical Comedy (Leoncavallo).
9.55 p.m.—Calendar and Programme Notes.
10.0 p.m. (approx.)—Close Down.

OSLO (Norway)
Kringkastingselskapet. WL. 461.5 m. (650 kc); 1.5 kw. Relayed by Hamar on 555.8 m. (540 kc); Porsgrund, 500 m. (600 kc); Frederikstad, 434.8 m. (690 kc); Notodden, 411 m. (730 kc); and Rjukan, 448 m. (670 kc).
5.40 p.m.—Elementary French Lesson.
6.15 p.m.—News.
6.30 p.m.—Elementary English Lesson.
7.0 p.m.—Time.
7.2 p.m.—Orchestral Concert.
8.30 p.m.—Sketch, "The Inauguration of Skramol Station" (Adolphson).
9.0 p.m.—Weather and News.
9.15 p.m. (approx.)—Close Down.

PARIS (France)
Ecole Supérieure (FPTT). WL. 458 m. (655 kc); 0.5 kw.
Transmits at intervals from 8 a.m.
2.0 p.m.—Concert: 1. Symphony in E flat (Mozart). 2. Divertissement flamand (Vidal). 3. "The Italian in Algiers"—Overture (Rossini). 4. Beau Soir (Debussy).
6.0 p.m.—Radio-Journal de France.
8.0 p.m.—Spanish Lesson.
9.0 p.m.—Concert.
10.0 p.m.—Running Commentary on the Six Days' Cycle Race.

PARIS (France)
Eiffel Tower (FL). WL. 2650 m. (113 kc); 5 kw.
7.56 a.m.—Time Signal on 32 m. (9,375 kc).
9.26 a.m.—Time Signal.
5.45 p.m.—"Le Journal Parlé." Talks on "Music of the Future" and "Science."
7.10 p.m.—Weather.
7.30 p.m.—Concert: 1. Songs with flute accompaniment, (a) Berceuse (Gambert); (b) Four Melodies (Gambert); 2. Pianoforte Solos, (a) Carnaval de Vienne (Schumann), (b) Allegro (Schumann), (c) Bourrée fantasque (Chabrier). 3. Violin Solos, (a) Intermezzo (Baton), (b) Harmonie du soir (Lazzard), (c) Coquette sentimentale (Sels). 4. Rigaudon (André). 5. Sérénade du marchand de masques (Wolff). At 7.56 p.m. Time Signal on 32 m. (9,375 kc).
8.30 p.m.—Educational Programme. Talks on "Great Writers" "Forgotten Masterpieces" and "Films of the Future," etc.
10.26 p.m.—Time Signal.

PARIS (France)
Petit Parisien. WL. 340.9 m. (880 kc); 0.5 kw.
8.0 p.m.—Concert of Dance Music:

Programmes for Friday.—(Cont.)

1. Hi Diddle Diddle (Keidel). 2. All Alone (Berlin). 3. I Wonder Where My Baby Is To-night (Donaldson). 4. Possibly (Carolls). 5. Just a little Drink (Byron Gray). 6. Blue River (Bryan). 7. Are You Lonesome To-night? (Lou Handman). 8. Me and My Shadow (Joslon). 9. A Shady Tree (Donaldson). 10. I'm Coming, Virginia (Donald Heywood).

PARIS (France)

Radio-Paris (CFR). WL. 1,750 m. (171 kc); 3 kw. 7.30 a.m.—Physical Culture. 8.0 a.m.—News. 10.30 a.m.—News and Musical Selections. 12.30 p.m.—Orchestral Concert: 1. "The Magic Flute"—Overture (Mozart). 2. In a little Spanish Town (Wayne). 3. Près d'un ruisseau (Dubois). 4. La Fille aux Cheveux de Lin (Debussy). 5. Madrigal (Simonetti). 6. Songs: (a) Mélodie (Brahms). (b) Air from "Prince Igor" (Borodine). 7. Sonata for Violin (Porpora). 8. The Fifth Quartet (Mozart). 9. Cloisterham (Cons). 10. Cello Solo. 11. The Second Rhapsody (Liszt). 12. Petit Conte (Deleau). News in the interval. 1.50 p.m.—Market Prices. 3.30 p.m.—Exchange Quotations. 3.45 p.m.—Literary and Musical Programme: 1. Aubepines en fleurs (Brun). 2. Two Pieces for Violin (Poldini). 3. Talk on "Science." 4. Minuet (Barlow). 5. La Rôtisserie de la Reine Pedauque (Levadé). 4.45 p.m.—Exchange and News. 7.0 p.m.—Agricultural Report. 7.45 p.m.—English Lesson. 8.0 p.m.—Exchange and News. 8.30 p.m.—"Tannhäuser"—Opera (Wagner) by the Orchestra and Soloists. News in the interval.

PITTSBURGH (U.S.A.)

Westinghouse Electric (KDKA). WL. 315.6 m. (950 kc.); 50 kw. 10.0 p.m.—Time. 10.10 p.m.—KDKA Theatrical Calendar. 10.15 p.m.—KDKA Little Symphony Orchestra: Victor Saudek, Con-

ductor. Playing in the lobby of the William Penn Hotel, Pgh. 11.0 p.m.—Time. University of Pittsburgh Address. 11.15 p.m.—Week-end Tours, with probable weather conditions to be encountered by the Automobile Club of Pittsburgh, A.A.A.

12 (midnight)—2.0 a.m.—Programme from WJZ, New York. Godfrey Ludley (Violinist). 12.30 a.m.—"White Rock" Concert Programme.

12.0 a.m.—"Wrigley Review." 12.0 a.m.—Reymer's R.V.B. Trio. 2.30 a.m.—Time and Weather Forecast.

12.0 a.m.—"Wrigley Review." 12.0 a.m.—Reymer's R.V.B. Trio. 2.30 a.m.—Time and Weather Forecast.

POSEN (Poland)

Polskie-Radio. WL. 344 m. (872 kc); 1.5 kw. Transmits at intervals from 1.0 p.m. 4.45 p.m.—Vocal Concert. 5.45 p.m.—Variety Item. 6.15 p.m.—Talk. 6.30 p.m.—Talk, "A Schoolmaster's Preparation for Teaching Grammar." 6.55 p.m.—Finance Notes. 7.15 p.m.—Programme from Warsaw, followed by Time, Variety Item, News, and Weather. 10.0 p.m.—Dance Music from the Carlton Restaurant. 11.0 p.m. (approx.).—Close Down.

PRAGUE (Czecho-Slovakia)

Strasnice. WL. 348.9 m (829 kc); 5 kw. Transmits at intervals from 10.0 a.m. 6.15 p.m.—Concert of Popular Music. 7.0 p.m.—Weather, News and Orchestral Selections. 8.0 p.m.—Concert. 9.0 p.m.—Time, News and Orchestral Music.

ROME (Italy)

Unione Radiofonica Italiana (IRO). WL. 448.4 m. (669 kc); 3 kw. 11.30 a.m.—Government Report. 12.30 p.m.—Trio Concert. 1.30 p.m.—Exchange and News. 3.40 p.m.—News and Exchange. 3.50 p.m.—Children's Corner. 4.15 p.m.—Agricultural Report. 4.30 p.m.—Vocal and Instrumental

Concert and Dance Music from the "Casinetta." 6.0 p.m.—Government Report. 7.0 p.m.—English Lesson. 7.30 p.m.—Time, News, Exchange and Weather. 7.45 p.m.—"Il Re di Chez-Maxim"—Opera (Costa). In the interval: Topical Talk. 9.55 p.m.—News. 10.0 p.m. (approx.).—Close Down.

SCHENECTADY (U.S.A.)

General Electric Company (WGY). WL. 379.5 m. (790 kc); 50 kw. Programme relayed by 2XAD on 21.96 m. (13,661 kc) from 10.0 p.m. 10.45 a.m.—Exercises. 12.30 p.m.—"Cherio" Talk and Music. 3.15 p.m.—Radio Household Institute Talk, from New York. 3.55 p.m.—Time and Weather. 4.2 p.m.—Produce Report. 4.7 p.m.—"Farm Flashes." 4.30 p.m.—Stock, Cotton and Grain Market Reports. 4.43 p.m.—Weather. 6.0 p.m.—Phil Romano and his Orchestra, from the Hotel de Witt, Albany. 10.0 p.m.—"Mutual Savings Hour" from New York. 11 p.m.—Exchange and News. 11.30 p.m.—Health Talk. 11.35 p.m.—WGY Players. 1.20 midnight—"Fro-Joy" Hour by Matilda Diglow Russ (Soprano), Rose Mountain (Contralto), Henry Clancy (Tenor), and Kolin Hager (Baritone). 1.0 a.m.—Time. 1.2 a.m.—"The Anglo-Persians," from New York. 1.30 a.m.—"Cathedral Echoes," by the Mixed Quartet. 2.0 a.m.—"Palmyre Hour," from New York. 3.0 a.m. (approx.).—Close Down.

STOCKHOLM (Sweden)

Radiotjänst (SASA). WL. 453.8 m. (661 kc); 1.5 kw. Relayed by Motala on 1,380 m. (217 kc); Göteborg, 416.7 m. (720 kc); Malmö, 260.9 m. (1,150 kc); and Sundsvall, 545.6 m. (550 kc). 5.10 p.m.—Talk for Boy Scouts. 5.30 p.m.—Talk, "Hunting." 5.40 p.m.—Folk Music. 6.0 p.m.—Household Hints. 6.15 p.m.—Advanced English Lesson.

6.45 p.m.—Concert. 1. "Lohengrin"—Overture (Wagner). 2. Quintet from "The Mastersingers" (Wagner). 3. Prize Song from "The Mastersingers." 4. Grieg Melodies (Urbach). 5. Poetry Recital. 6. Tenor Solos. 7. Poetry Recital. 8.0 p.m.—Agricultural Talk. 8.15 p.m.—News and Weather. 8.40 p.m. (approx.).—Close Down.

STUTTGART (Germany)

Süddeutscher Rundfunk. WL. 380.7 m. (788 kc); 4 kw. Transmits at intervals from 11.30 a.m. 3.0 p.m.—Concert from the Café-Restaurant Greiner, Hindenburgbau. 5.0 p.m.—Time, Weather and Agricultural Notes. 5.15 p.m.—Talk, "Coal Dust." 6.15 p.m.—Elementary English Lesson. 6.45 p.m.—Programme announcements in Esperanto, Time and Weather. 7.0 p.m.—Programme from Frankfurt, followed by Dance Music. 9.45 p.m.—News and Sports Notes. 10.0 p.m. (approx.).—Close Down.

WARSAW (Poland)

Polskie-Radio. WL. 1,111.1 m. (270 kc); 10 kw. 11.0 a.m.—Time, Fanfare from the Tower of Notre Dame in Cracow, Aviation Report and Weather. 2.0 p.m.—Weather and Agricultural Report. 2.30 p.m.—Talk, "The Springtime of the Nations." 2.55 p.m.—Literary Talk. 3.20 p.m.—Review of Periodicals. 3.40 p.m.—English Lesson. 4.20 p.m.—Programme relayed from Cracow. 4.45 p.m.—Balalika Concert: 1. "Pique Dame"—Selections (Chaikovsky). 2. Le Faune (Andrejew). 3. Elegy (Glinka). 4. Egyptian Serenade (Lincke). 5. Tzigane Romances. 6. Ballade from "Lucrezia Borgia" (Donizetti). 7. Serenade (Cárosio). 8. Tzigane Romances. 9. La Chanson des Bourlakis. 10. Variations on "La lune brille." 6.5 p.m.—Programme relayed from Cracow. 6.15 p.m.—Variety. 6.30 p.m.—Talk, "Sports for Women abroad in 1927."

6.55 p.m.—Music Talk. 7.15 p.m.—Symphony Concert. 9.0 p.m.—Time, Aviation Report and Weather. 9.5 p.m.—News, Police News and Sports News. 9.30 p.m. (approx.).—Close Down.

WILNO (Poland)

Polskie-Radio. WL. 435 m. (689 kc); 0.5 kw. 3.0 p.m.—News in Lithuanian. 3.30 p.m.—Children's Corner. 2.55 p.m.—Talk. 4.20 p.m.—Programme relayed from Cracow. 4.50 p.m.—Orchestral Concert. 6.0 p.m.—News. 6.25 p.m.—Time and Variety. 6.35 p.m.—The Letter Box. 7.15 p.m.—Programme relayed from Warsaw. 9.0 p.m.—News. 9.15 p.m. (approx.).—Close Down.

ZAGREB (Yugoslavia)

Radioklub-Zagreb. WL. 310.5 m. (966 kc); 0.35 kw. 12.30 p.m.—Exchange and News. 4.15 p.m.—Concert from the Café Corso. 6.0 p.m.—Sacred Music: "Jesus Wept." 7.0 p.m.—Esperanto Talk. 7.15 p.m.—French Lesson. 7.30 p.m.—Announcements. 7.35 p.m.—Concert: 1. (a) Songs Without Words (Mendelssohn), (b) Barcarolle, Op. 25 (Mendelssohn). 2. (a) Gute Nacht, (b) Die Bee's Farbe, (c) Gretchen am Spinnrade (Schubert). 3. (a) Barcarolle, Op. 27, (b) Songs Without Words, Op. 62, No. 26, (c) Op. 85, No. 42 (Mendelssohn). 4. (a) Die Uhr, (b) Mutter an der Wiege, (c) Niemand hat's gesehen (Lowe). 5. (a) Spring Song, (b) Cradle Song (Mendelssohn). 6. "A Masked Ball"—Aria (Verdi). 7. "Il Trovatore"—Aria (Verdi). 8.50 p.m.—News. 9.0 p.m.—Light Music.

ZURICH (Switzerland)

Radio-Genossenschaft. WL. 588.2 m. (510 kc); 2 kw. 7.0 p.m.—Concert of Modern French Music. 7.0 p.m.—Swiss Song Recital. 8.25 p.m.—Orchestral Concert. 9.0 p.m.—Weather and News. 9.10 p.m. (approx.).—Close Down.

Advertisement for 'AMERICA on the Interdyne' featuring the Statue of Liberty and a Varley radio receiver. Text includes: 'There is an excitement about "picking up" America over and above that attached to the reception of any foreign station. The United States are so much akin to us in some ways, so alien in others, that most people feel a particular desire to hear for themselves in what way, and to what extent American broadcasts really differ from those of our own country. Until a short time ago this wish was very difficult of fulfilment. Most attempts to pick up America were either a complete failure or resulted at best in a faint, distorted reception, confused still further by a noisy background. Now—you can get America almost every night on the Interdyne! This Receiver is particularly fitted for the reception of long distance broadcasts. The special 4-Electrode Valves not only ensure a remarkable degree of selectivity, but entirely eliminate any background or "mush." Thus the chief difficulties in the path of long distance reception are overcome, and almost perfect conditions for American reproduction are secured. Here is the experience of a London listener:—"I picked up 9 or 10 American stations one night, 2 or 3 were audible on the loud speaker. Atlantic City (only 5 Kilowatts) comes in about the best, and I have received it on my indoor aerial." Think of the triumph of getting ten different American stations in one evening! How proud you would feel as you told your friends about it in the train next morning! Get an R.I. and Varley Interdyne Receiver and know that feeling of pride.' PRICES: Short Wave model (250-550 metres) £25 Long and Short Wave model (250-550 metres) and 1,000-2,000 metres £42 Marconi Royalties Extra. THE MARK OF BETTER RADIO Kingsway House, 103, Kingsway, London, W.C. 2. Telephone: Holborn 5303. RI AND Varley LTD

PROGRAMMES FOR SATURDAY (April 14)

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO GREENWICH MEAN TIME

BARCELONA (Spain) Radio Barcelona (EAJ1). WL. 344.8 m. (870 kc); 1.5 kw. Transmits at intervals from 11.0 a.m. 6.10 p.m.—Sextet Selections. 1. La Bacanal—Polka (Coto). 2. "Tannhäuser"—Selection (Wagner). 3. Presentiment (Worsley). 4. Piropo (Vila). 5. "Dedé"—Selection (Cristiné). 6. Fortune—March (Siède). 8.30 p.m.—French Lesson. 9.0 p.m.—Chimes from the Cathedral and Weather. 9.5 p.m.—Exchange Quotations and News. 9.10 p.m.—Orchestral Selections. 1. "Heimkehr aus der Fremde"—Overture (Mendelssohn). 2. Valse Héroïque (Sancho Marraco). 3. "Les Saltimbanques"—Selections (Ganne). 4. Valse Lente (Chopin). 5. Arlequinade (Ugo). 9.45 p.m.—Recitations in Catalanian. 10.0 p.m.—Exchange Closing Prices. 10.5 p.m.—Concert from the Works of Handel. 1. Largohetto and Allegro from the Concerto No. 6, Op. 4. 2. Aria. 3. Aria and Recitation from "The Messiah". 3. Adagio from Concerto No. 3. 4. "Xerxes"—Largo. 5. Jupiter's Song. 6. Adagio and Allegro from the Sonata No. 4 in D major for Violin and Piano-forte. 7. Ah mio cor—Aria. 8. "Belshazzar"—Drinking Song. 11.15 p.m. (approx.)—Close Down.

BASLE (Switzerland) Basler-Radio-Genossenschaft. WL. 1,000 m. (300 kc); 0.25 kw. 6.30 p.m.—Programme from Berne. 9.5 p.m.—Dance Music. 10.0 p.m. (approx.)—Close Down.

BERGEN (Norway) Kringkastingselskap. WL. 369.9 m. (811 kc); 1.5 kw. Transmits at intervals from 10.15 a.m. 6.0 p.m.—Programme for Girls. 6.30 p.m.—Children's Corner. 7.0 p.m.—The Wireless Orchestra: 1. Dance (Hannikarinen). 2. Valse mignonne (Palmgren). 3. Ballet Egyptienne (Luigini). 4. Reverie (Leoncavallo). 5. Caravane hindou (Popy). 6. Fantasia on Norwegian Folk Melodies (Haaland). 8.30 p.m.—Talk, "Bonaparte and Bernadotte". 8.30 p.m.—Tenor Solos: 1. Air from "Lohengrin" (Wagner). 2. Two Airs from "Tannhäuser" (Wagner). 3. Don Juan's Serenade (Mozart). 4. Prelude to "I Pagliacci" (Leoncavallo). 9.0 p.m.—Weather, News and Time. 9.15 p.m.—Dance Music from Hotel Norge. 11.0 p.m. (approx.)—Close Down.

BERLIN (Germany) Königswusterhausen. WL. 1,250 m. (240 kc); 35 kw. 11.0 a.m.—Talk, "German Peasant Life". 1.30 p.m.—Children's Corner. 2.0 p.m.—Talk, "The Technique of Speech". 2.25 p.m.—Weather and Market Prices. 3.0 p.m.—Shorthand Lesson. 3.30 p.m.—Legal Talk. 4.0 p.m.—Concert relayed from Hamburg. 5.0 p.m.—Talk. 5.30 p.m.—Spanish Lesson. 5.55 p.m.—Talk, "Songs from Faust". 6.20 p.m.—Talk, "The Passion Compositions of Bach". 7.30 p.m.—Programme relayed from Voxhaus.

BERLIN (Germany) Voxhaus. WL. 484.6 m. (619 kc); 4 kw. Transmits at intervals from 9.10 a.m. 7.30 p.m.—"Old Berlin Romantics in Word and Song"—Concert with Commentary in the interval. 9.15 p.m.—News. 9.30 p.m.—Dance Music. 11.30 p.m. (approx.)—Close Down.

BERNE (Switzerland) Radio-Berne. WL. 411 m. (730 kc); 1.5 kw. 12.0 noon.—Time, Weather, Exchange, and Gramophone Records. 2.56 p.m.—Time. 3.0 p.m.—The Kursaal Orchestra. 3.30 p.m.—Children's Corner. 4.0 p.m.—The Kursaal Orchestra. 6.30 p.m.—Time and Weather. 6.35 p.m.—Talk, "Modern Street Traffic and its Dangers". 7.0 p.m.—Variety Concert. 8.20 p.m.—The Kursaal Orchestra.

News and Weather in the Interval. 9.30 p.m.—Dance Music. 11.0 p.m. (approx.)—Close Down.

BRÜNN (Czechoslovakia) Komarov. WL. 441 m. (680 kc); 3 kw. Transmits at intervals from 11.15 a.m. 5.25 p.m.—Talks. 6.0 p.m.—Programme of Music from the Works of the Strauss Family. 7.0 p.m.—French Lesson. 9.20 p.m.—"Humour in Music." 1. Comedy Overture (Sinigaglia). 2. Radotages (Maris). 3. Rondo (Wehinger). 4. "The Merry Wives of Windsor"—Selection (Nicolai). 5. Rondo and Capriccio, Op. 129 (Beethoven). 6. Scherzo in B major (Schubert). 7. Bergerettes. 8. "The Bartered Bride"—Arias (Smetana). 9. Humoresque (Dvorak). 10. "La Source" (Delibes). 11. Pastourelles. 12. "Cosi fan tutte"—Selection (Mozart). 12. Finale from a Symphony (Haydn). 9.0 p.m.—Programme relayed from Prague.

BRUSSELS (Belgium) Radio Belgique. WL. 508.5 m. (590 kc); 1.5 kw. 5.0 p.m.—Dance Music. 6.0 p.m.—Elementary English Lesson. 6.25 p.m.—Advanced English Lesson. 7.45 p.m.—Radio Chronique. 8.15 p.m.—Concert arranged by "La Meuse". 10.0 p.m.—Topical Talk. 10.15 p.m.—News. 10.30 p.m. (approx.)—Close Down.

COLOGNE (Germany) Westdeutscher Rundfunk. WL. 283 m. (1,060 kc); 4 kw. 12.0 (noon) Concert. 1. "La Dame Blanche"—Overture (Boieldieu). 2. Valse Caprice (Rubinstein). 3. Melodies from "William Tell" (Rossini). 4. Nanna-Nanna (Micheli). 5. Violin Solos. 6. Selections (Massenet). 7. Ich hab dich so Lieb (Wolf). 8. "Die Obersteiger"—Potpourri (Zeller). 3.0 p.m.—Review of Books. 3.30 p.m.—Programme from Königswusterhausen. 4.0 p.m.—See Langenberg. 5.0 p.m.—Concert. 1. Mandoline Solos. 2. (a) Minnelied (Bunte). (b) Abendlied (Mühlberg), (c) Still (Ayslinger). 3. Mandoline Solos. 4. (a) Weibe des Gesanges, (b) Die Rose im Tau (Schumann), (c) Feldeinsamkeit (Wendel), (d) Schneiders Hollenfahrt (Neumann). 6.15 p.m.—Talk. 6.45 p.m.—Talk, "The Argentine." 7.15 p.m.—Variety, followed by Sports Notes, Concert and Dance Music. 12.0 (midnight)—approx.—Close Down.

COPENHAGEN (Denmark) Copenhagen Radio. WL. 337 m. (290 kc); 1 kw. Relayed by Kalundborg on 1,153.8 m. (260 kc). Transmits at intervals from 6.30 a.m. 5.0 p.m.—English Lesson by Mr. C. Campbell-MacCallum. 5.30 p.m.—Talk on Ross. 6.0 p.m.—News, Exchange and Time. 6.20 p.m.—Programme Announcements for the Coming Week. 6.30 p.m.—Talk, "Electric Light." 7.0 p.m.—Chimes. 7.2 p.m.—Radio Cabaret, News in the interval. 10.0 p.m.—Dance Music from the Industri Restaurant. 11.0 p.m.—Chimes.

CORK (Ireland) Cork Broadcasting Station (6CK). WL. 400 m. (750 kc); 1.5 kw. 8 p.m.—(approx.)—Programme from Dublin.

CRACOW (Poland) Polskie-Radio. WL. 566 m. (530 kc); 1.5 kw. Transmits at intervals from 11 a.m. 3.40 p.m.—Talk, "The Economic Bases of our Agricultural Independence." 4.20 p.m.—Talk, "The Life of the population of North Africa." 4.45 p.m.—Programme from Warsaw. 6.5 p.m.—Agricultural Report. 6.15 p.m.—Variety. 6.35 p.m.—Programme from Warsaw. 7.0 p.m.—Talk on "Foreign Politics." 7.30 p.m.—Programme from Warsaw.

DUBLIN (Ireland) Dublin Broadcasting Station (2RN). WL. 319.1 m. (940 kc); 1.5 kw. 8.0 p.m.—(approx.)—Symphony Concert. Relayed from the Metropolitan Hall,

Abbey Street, Dublin. 1. Marche militaire (Schubert). 2. "Mariana"—Overture (Wallace). 3. Vocal Selections from the Works of Wallace by Agnes O'Kelly (Contralto). 4. The Third Symphony—"Eroica"—First and Third Movements (Beethoven). 5. Baritone Solos by P. J. Duffy. 6. "Irish Composers' Offerings" by the Orchestra. 7. Community Vocal items: (a) Way Down Upon the Swanee River, (b) Marching Through Georgia. 8. Hungarian Rhapsody (Liszt). 9. Vocal Items by Angas O'Kelly. 10. The Orchestra: (a) Three Bavarian Dances, (b) 1812 Overture (Tchaikovsky). 11. P. J. Duffy (Baritone). 12. Selection from "The Gondoliers" (Sullivan). 13. "My Land"—Community Song. 14. The National Anthem.

GENEVA (Switzerland) Radio Geneva. WL. 760 m. (395 kc); 0.5 kw. 5.0 p.m.—Programme from the Mac-Mahon. News. 7.15 p.m.—News, and Musical Selections. 7.40 p.m.—Light Music by the Station Orchestra. 8.50 p.m.—News. 9.0 p.m.—Programme from the Fantasia. 10.0 p.m. (approx.)—Close Down.

GRAZ (Austria) Oest. Radio-Verkehrs. WL. 357.1 m. (840 kc); 0.5 kw. 10.0 a.m.—1.0 p.m.—Programme relayed from Vienna. 3.5 p.m.—"The Myrtle Princess"—Fairy Play in One Act (Burhenne). 4.30 p.m.—Talk, "The Latest Housing Developments." 5.0 p.m.—Topical Talk. 5.30 p.m.—Shorthand Lesson. 6.0 p.m.—Serbo-Croatian Lesson. 6.30 p.m.—Programme arranged by the Graz Urania. 6.45 p.m.—Programme relayed from Vienna.

HAMBURG (Germany) Norag (ha, in Morse). WL. 396 m. (757 kc); 4 kw. Relayed by Bremen on 272.7 m. (1,100 kc); and Hanover, 297 m. (1,010 kc); and Kiel 278 m. (1,076 kc). 2.15 p.m.—Programme from Kiel. 2.30 p.m.—Review of Books. 3.15 p.m.—Talk, "Orchestral Bells" (Hamburg, Bremen and Hanover). 4.0 p.m.—Viennese Concert relayed by Königswusterhausen. 7.0 p.m.—Variety Concert.

HILVERSUM (Holland) Algemeene Vereeniging Radio-Omroep. WL. 1069 m. (280.5 kc); 5 kw. 11.40 a.m.—Police News. 12.10 p.m.—Trio Concert. 3.30 p.m.—Italian Lesson. 4.10 p.m.—French Lesson. 4.55 p.m.—German Lesson. 5.40 p.m.—Concert. 1. "Zampa"—Overture (Herold). 2. A Honey-moon through Scandinavia (Juel-Fredriksen). 3. Was Blumen träumen (Translatour). 4. Patrouille (de Smetaki). 5. Selection from "The Bird Fancier" (Zeller). 6. Two Tangos (Ravello). 7. (a) Graziata, (b) Amorosilla). 7. "A Waltz Dream"—Waltz (Strauss). 8. Finale. 6.55 p.m.—Talk. 7.25 p.m.—Police News. 7.45 p.m.—Programme arranged by the Workers' Radio Society. Concert and Talk. 10.10 p.m.—Concert from the Royal Picture House, Amsterdam. 11.20 p.m. (approx.)—Close Down.

HUIZEN (Holland) WL. 340.9 m. (880 kc); 4 kw. (Until 5.40 p.m.). Transmits from 5.40 p.m. on 1,870 m. (160 kc). 12.10 p.m.—Trio Concert. 2.40 p.m.—Children's Corner. 4.40 p.m.—Gramophone Music. 6.10 p.m.—Literary Talk. 6.40 p.m.—Gramophone Music. 7.10 p.m.—Dutch Lesson. 7.10 p.m.—Talk. 7.40 p.m.—Concert and Talk. 10.10 p.m.—News.

JUAN-LES-PINS (France) Radio L. L. WL. 246 m. (1,220 kc); 0.25 kw. 1.0 p.m.—Orchestral Concert from the Casino. 1. Modeste—Waltz (Waldeufel). 2. En Chevauchant (Gillet). 3. Tout Pr's de l'Atre

(Chillemont). 4. "The Marriage of Figaro" (Mozart). 5. Rêve—Melody (Chaminade). 6. La Giocanda (Ponchielli). 7. Libellules (Fossoul). 8. Les Beaux Yeux (Fisher). 9. Bluettes (Polleri). 10. "I Pagliacci" (Leoncavallo). News in the Interval. 9.0 p.m.—Symphony Concert. 10.0 p.m.—Dance Music from the Casino. 10.30 p.m. (approx.)—Close Down.

KIEL (Germany) Norag. WL. 278 m. (1,076 kc); 0.7 kw. 2.15 p.m.—Market Prices. 2.30 p.m.—Programme from Hamburg. 3.15 p.m.—Scenes from "Salome." 4.0 p.m.—Programme from Hamburg.

KOENIGSBERG (Germany) Ostmarken Rundfunk. WL. 330.3 m. (908 kc); 1 kw. Relayed by Danzig on 272.7 m. (908 kc). 3.0 p.m.—Children's Corner (Koenigsberg only). 3.0 p.m.—Esperanto Talk (Danzig only). 3.30 p.m.—Concert. 5.20 p.m.—Market Prices. 5.30 p.m.—Wireless Notes. 5.40 p.m.—Topical Talk. 5.55 p.m.—Programme Announcements in Esperanto. 6.0 p.m.—Talk, "Laws of Income Tax." 6.30 p.m.—English Lesson. 7.10 p.m.—Pianoforte Recital. Sonata in D minor (Weber). 2. Kreisleriana (Schumann). 8.10 p.m.—"Das fatale Ei" Fable Grotesque (Pordes-Milo and Runsky), followed by News and Weather. 9.30 p.m.—Concert. 1. "Banditenstreich" Overture (Suppe). 2. Selection from "Prince Methusalem" (Joh. Strauss). 3. "Ball-siren" Waltz from "The Merry Widow" (Lehar). 4. Divertissement from "The Dollar Princess" (Fall). 5. "O Wunder der Liebe" from "Cagliostro" (Strauss). 6. Hei Hussa—Tzigane March (Jarno).

KOVNO (Lithuania) Radio Kaunas. WL. 2,000 m (150 kc); 15 kw. 2.30 p.m.—Orchestral Concert. 1. Fantasia (Gounod). 2. Three O'clock in the Morning—Boston (Robledo). 3. To Spring (Grieg). 4. The Rose of Stamboul—Waltz (Fall). 5. Elfengeflüster (Rode). 6. Bulgarian Victory March. 7. Character Sketch (Seide). 3.30 p.m.—Talk for Young People. 4.30 p.m.—Talk in German. 5.0 p.m.—Programme Announcements in German. 5.10 p.m.—News. 6.0 p.m.—Time, Weather and News. 6.30 p.m.—Programme from the National Theatre.

LANGENBERG (Germany) Westdeutscher Rundfunk. WL. 470 m. (638 kc); 25 kw. Programme also for Aix-la-Chapelle, 401 m. (748 kc); Cologne, 283 m. (1,060 kc); and Munster, 303 m. (990 kc). 12.0 (noon)—Programme from Cologne. 3.30 p.m.—Programme from Königs-wusterhausen. 4.0 p.m.—Talk from Dusseldorf. 4.30 p.m.—English Lesson from Munster. 5.0—12.0 (midnight)—Programme from Cologne.

LAUSANNE (Switzerland) Société Romande de Radiophonie (HB2). WL. 680 m. (441 kc); 1.5 kw. Transmits at intervals from 6.45 a.m. 7.0 p.m.—Weather. 7.1 p.m.—Vaudois Concert. Programme. 1. Vaudois Hymn. 2. Address. 3. The Canton of Vaud. 4. Le petit village (Dalcroze). 5. La-bas, la-bas (Plumhof). 6. L'exile vaudois (Wuissmann). 7. La chanson du sol natal (Dalcroze). 8. Marche vaudoise (Dalcroze). 9. Festival vaudois—Fantasia (Dalcroze). 10. Minuet (Doret). 11. Romance (Wagner). 12. Through the Twenty-Two Cantons.

MADRID (Spain) Union Radio (EAJ7). WL. 373 m. (800 kc); 1.5 kw. Transmits at intervals from 11.45 a.m. 7.0 p.m.—Selections by the "Arty's" Orchestra. 1. EL Secreto dela Cibebes—Selection (Alonso). 3.

"Amor in maschera—Selection (Artukar). Interlude by Luis Medina.

8.0 p.m.—Dance Music relayed from the "Alcazar." 9.30 p.m.—"The Home Education of the Child." 9.45 p.m.—Photography Lesson—"Developing." Programme relayed by San Sebastian. 10.0 p.m.—Time and Exchange Quotations. 10.10 p.m.—Orchestral Concert. 1. "The Magic Flute"—Overture (Mozart). 2. Prelude (Bautista). 3. Italian Symphony (Mendelssohn). 4. Procession nocturne (Rabaud). 5. Spanish caprice (Rimsky-Korsakoff). 12.20 a.m.—News. 12.30 a.m. (approx.)—Close Down.

MUNICH (Germany) Deutsche Stunde in Bayern. WL. 535.7 m. (560 kc); 4 kw. Relayed by Nurnberg on 241.7 m. (1,240 kc.); and Augsburg on 566 m. (530 kc). Transmits at intervals from 10.45 a.m. 3.0 p.m.—Orchestral Concert. 1. "Hebrides"—Overture (Mendelssohn). 2. L'Arlesienne—Suite, No. 1 and 2 (Bizet). 3. Ballet Music and Interlude Music from "Rosamunde" (Schubert). 4.35 p.m.—Harmonium Recital. 5.30 p.m.—Talk, "The History of Wireless Technology." 6.0 p.m.—Wireless Notes. 6.30 p.m.—Song Recital. 1. The Violet (Mozart). 2. Three Songs (Franz): (a) Mutter o sing' mich zur Ruh, (b) Ein Stundlein wohl vor Tag, (c) Widmung. 3. Songs (Brahms): (a) Nachtwandler, (b) Der Jager, (c) Wiegenlied, (d) Schwesterlein, (e) Och Moder ich well ein ding han. 7.0 p.m.—"5 Nulleri"—Musical Folk Play (Morre). 9.5 p.m.—Announcements. 9.20 p.m.—Concert from the Café Furstenhof, Munich. 11.0 p.m. (approx.)—Close Down.

OSLO (Norway) Kringkastingselskapet. WL. 461.5 m. (650 kc); 1.5 kw. Relayed by Hamar on 555.8 m. (540 kc.); Porsgrund, 500 m. (600 kc.); Fredrikstad, 434.8 m. (690 kc.); Notodden, 411 m. (730 kc.); and Rjukan, 448 m. (670 kc.). 4.45 p.m.—Children's Corner. 5.45 p.m.—Children's Birthday Greetings. 6.15 p.m.—News. 6.30 p.m.—Recitations. 7.0 p.m.—Time. 7.2 p.m.—Programme from the Chat Noir Theatre. Revue. 8.0 p.m.—Weather, News Sport and Topical Talk. 8.30 p.m.—Programme from the Chat Noir Theatre, followed by Dance Music from the Grand-Hotel. 11.0 p.m. (approx.)—Close Down.

PARIS (France) Ecole Supérieure (FPTT). WL. 458 m. (655 kc); 0.5 kw. Transmits at intervals from 8.0 a.m. 1.0 p.m.—Transmission by the Institut Radiophonique. 2.0 p.m.—Concert. 1. Norwegian Dances (Grieg). 2. "La Juive"—Selection (Halévy). 3. Ariette (Pierné). 4. Spanish Dances (Chabrier). 3.15 p.m.—Programme for Hospitals. 5.0 p.m.—Running Commentary on the Six Days' Cycle Race. France. 6.0 p.m.—Radio-Journal de France. 8.45 p.m.—Talk, "Social Hygiene." 9.0 p.m. (approx.)—Concert. 10.0 p.m.—Cycle Race Report.

PARIS (France) Eiffel Tower (FL). WL. 2,650 m. (113 kc); 5 kw. 7.56 a.m.—Time Signal on 32 m. (9,375 kc). 9.26 a.m.—Time Signal. 5.45 p.m.—"Le Journal Parlé." 7.10 p.m.—Weather. 7.30 p.m.—Concert. 1. Espana—Orchestral Suite (Albeniz). 2. La Faute de l'Abbé Mouret—First Suite (Bruneau). 3. L'Arbre—Orchestral Suite (Bruneau). 4. La Faute de l'Abbé Mouret (Bruneau). At 7.56 p.m.: Time Signal on 32 m. (9,375 kc). 8.30 p.m.—Educational Programme. Talks on "Children's Studies," etc. 10.26 p.m.—Time Signal.

PARIS (France) Petit Parisien. WL. 340.9 m. (880 kc); 0.5 kw. 9.0 p.m.—Concert arranged by the French Aeronautic League. 1. "A Midsummer Night's Dream"—Overture (Mendelssohn). 2. La

Programmes for Saturday.—(Cont.)

Splendeur Vide (Saint-Saëns). 3. The Northern Star (Meyerbeer) 4. "Hymn to the Sun" from "Le Coo d'Or" (Rimsky-Korsakoff) 5. Elevation—Romance (Chaminade). 6. Le Voyageur dans la Nuit (Rubinstein). 7. Aux Etoiles (Duparc). 8. Military March, (Saint-Saëns). In the intervals two songs by M. Rousseau of the Opera-Comique, (a) Hymne aux aviateurs (Saint-Saëns), (b) O Star of Eve (Wagner).

PARIS (France) Radio-Paris (CFR). WL. 1,750 m. (171 kc); 3 kw. 7.30 a.m.—Physical Culture. 8.0 a.m.—News. 10.30 a.m.—News and Musical Selections. 12.30 p.m.—Concert. Part I. Classical Trio Music. Part II. Mexican Songs. News in the interval. 1.50 p.m.—Market Prices, and Religious News. 3.30 p.m.—Exchange Quotations. 3.45 p.m.—Dance Music. 4.45 p.m.—News. 7.0 p.m.—Agricultural Report. 7.30 p.m.—Pianoforte Interlude. 8.0 p.m.—Talk. 8.20 p.m. (approx.)—Exchange and News. 8.30 p.m.—Gala Concert. Organised by "Le Matin." News in the interval.

PITTSBURGH (U.S.A.) Westinghouse Electric (KDKA). WL. 315.6 m. (950 kc); 50 kw. 10.0 p.m.—Time. 10.10 p.m.—KDKA Theatrical Calendar. 10.15 p.m.—KDKA Little Symphony Orchestra. 11.0 p.m.—Time. University of Pittsburgh Address. 11.15 p.m.—Weekly Meeting of the Home Radio Club. 11.30 p.m.—Programme. 11.45 p.m.—Gems of American Literature. 12.0 midnight—R. C. A. Radiotrons Programme from WJZ, presented by the New York Symphony Orchestra, Walter Damrosch, Conductor.

POSEN (Poland) Polskie-Radio. WL. 344 m. (872 kc.); 1.5 kw.

Transmits at intervals from 1.0 p.m. 4.45 p.m.—Talk for Young People. 5.45 p.m.—Variety Items. 6.15 p.m.—French Lesson. 6.35 p.m.—Talk on State Revenue. 7.0 p.m.—Finance Notes. 7.30 p.m.—Concert of Light Music. 9.0 p.m.—Time and Variety. 9.30 p.m.—News and Weather. 9.50 p.m.—Dance Music from the Palais Royal Restaurant. 11.0 p.m.—Concert. 11.0 a.m. (approx.)—Close Down.

PRAGUE (Czechoslovakia) Strassnice. WL. 348.9 m. (860 kc); 5 kw. Transmits at intervals from 10.0 a.m. 6.15 p.m.—Concert of Popular Music. 7.0 p.m.—Tambourin. 7.45 p.m.—"Memories of Old Prague." 8.0 p.m.—Concert of Modern Music. 11.0 a.m. (approx.)—Close Down.

ROME (Italy) Unione Radiofonica Italiana (IRO) WL. 448.4 m. (669 kc); 3 kw. 11.30 a.m.—Government Report. 12.30 p.m.—Trio Concert. 1.30 p.m.—Exchange and News. 3.40 p.m.—News and Exchange. 3.50 p.m.—Children's Corner. 4.15 p.m.—Agricultural Report. 4.30 p.m.—Time. 4.42 p.m.—Vocal and Instrumental Concert. 1. Pianoforte Solos: (a) Mazurka in F minor (Chopin), (b) Etude in E major, Op. 10 No. 3 (Chopin). 2. Mezzo-Soprano Solos: (a) Mattino burrascoso (Schubert), (b) Ricercate, o mio tesoro (Torelli). 3. Sonata in A minor for Violin and Pianoforte (Beethoven). 4. Mezzo-Soprano Solos: (a) Voi che sapete (Mozart), (b) Primavera dolente (Gasco). 5. Sonatina for Violin and Pianoforte (Mortari).

6.0 p.m.—Government Report. 7.0 p.m.—German Lesson. 7.30 p.m.—Time, News, Exchange and Weather. 7.45 p.m.—Astronomy Talk. 8.0 p.m.—Concert. 1. Adagio and allegro (Corelli). 2. Sonata in F major (Marcello). 3. Su di un colle fiorito (Marcello). 4. Pastoral

(Franck). 5. "The Resurrection of Christ" (Perosi). 9.55 p.m.—News. 10.0 p.m. (approx.)—Close Down.

SCHENECTADY (U.S.A.)

General Electric Company (WGY). WL. 379.5 m. (790 kc); 50 kw. Relayed by 2 XAF on 31.4 m (9,55 kc.) from 10.25 y.m. 10.45 a.m.—Exercises. 12.30 p.m.—"Cheerio" Talk and Music. 3.15 p.m.—"Radio Household Institute Talk" from New York. 3.55 p.m.—Time and Weather. 4.30 p.m.—Stock, Cotton, and Grain Market Prices. 10.30 p.m.—Dinner Music from the Onondaga Hotel, Syracuse. 11.30 p.m.—"Statler's Pennsylvanians," directed by Johnny Johnson, from New York. 12 (midnight)—"High Jinkers," from New York. 1.0 a.m. (Sunday)—Time. 1.2 a.m.—The Little Orchestra, from New York. 1.30 a.m.—"Twin Pairs of Harmony," from New York. 2.0 a.m.—Organ Recital by Robert Berntsen, from the Eastman Theatre, Rochester. 4.0 a.m.—Dance Music from Buffalo. 5.0 a.m. (approx.)—Close Down. British Summer Time.

STOCKHOLM (Sweden)

Radiotjänst (SASA). WL. 453.8 m. (661 kc); 1.5 kw. Relayed by Motala, on 1380 m. (217 kc); Göteborg, 416.7 m. (720 kc); Malmö, 260.9 m. (1150 kc); and Sundsvall, 545.6 m. (550 kc). 4.15 p.m.—Light Music. 5.15 p.m.—Children's Corner. 5.45 p.m.—Band Music from Boden. 6.45 p.m.—Play. 7.15 p.m.—Cabaret. 8.0 p.m.—Talk, "Professions and Professionals." 8.15 p.m.—News and Weather. 8.45 p.m.—Topical Talk. 9.0 p.m.—Dance Music. 11.0 p.m. (approx.)—Close Down.

STUTTGART (Germany)

Süddeutscher Rundfunk. WL. 380.7 m. (788 kc); 4 kw. Transmits at intervals from 11.30 a.m. 1.0 p.m.—Children's Corner. 2.0 p.m.—Concert. 1. "Ten Girls, and no man"—Overture (Suppé). 2. Melodies from "Das Dreima-

derhaus" (Berte). 3. "Orpheus in the Underworld"—Overture (Offenbach). 4. Man schenkt sich Rosen. 5. Deine Hand, die feine (Flemming). 6. Ich mocht' mein Weiberl (Manass). 7. Im Wirtshaus zum Greifen (Goetze). 8. Leháriana—Potpourri (Geiger). 9. O. dos is gaut (Gruber). 10. Merry March Potpourri (Kozzak). 11. Song from "The Mikado" (Sullivan). 12. Potpourri (Schreiner). 13. Ich denk dabei an dich (Stranzky). 14. Two red roses. 15. Aufzug der Stadtwache (Jessel). 16. Wiener Praterleben (Translatour). 17. Temptation Rag (Lodge). 18. Rumdeideidum (Leller). 19. Grand Italian Opera Potpourri—Parody 20. Listen!—Potpourri (Borchert). 21. Ein Schwipserl (Strauss). 22. Kissing is no sin (Eysler). 23. Spass muss sein (Morona). 5.0 p.m.—Time and Weather. 5.15 p.m.—Talk, "A visit to Gottfried Keller's "Landvogt vom Greifensee," from Freiburg, 575.8 m. (521 kc). 5.45 p.m.—Talk, "Music and Animals." 6.15 p.m.—Talk. 6.45 p.m.—Time, Weather and Sports Notes. 7.0 p.m.—Chamber Music. 1. Improvisation for Pianoforte and cello (Caplet). 2. Capriccio (Hindemith). 3. Duet for violin and cello (Hermann). 4. Trio for Pianoforte and Cello (Hermann). 8.15 p.m.—Programme of Swabian-Bavarian jokes and amusing anecdotes. 0.45 p.m.—News. 10.0 p.m. (approx.)—Close Down.

WARSAW (Poland)

Polskie-Radio. WL. 1,111.1 m. (270 kc); 10 kw. 11.0 a.m.—Time, Fanfare from the Tower of Notre Dame in Cracow, Aviation Report, Weather and Gramophone Records. 2.0 p.m.—Weather and Agricultural Report. 2.30 p.m.—Talk, "Poland and France." 3.0 p.m.—Talk, "Natural History Expeditions." 3.25 p.m.—News. 3.40 p.m.—Talk. 4.20 p.m.—Radio-Chronique. 4.45 p.m.—Concert of Canary Bird-song.

6.5 p.m.—Agricultural Report. 6.15 p.m.—Agricultural Report. 6.35 p.m.—Talk on "Pierre Chojnowski." 7.0 p.m.—Talk. 7.30 p.m.—"The Count of Luxemburg"—Operetta (Lehar). In the Interval: News in French. 9.0 p.m.—Time, Aviation Report and Weather. 9.5 p.m.—News, Police News and Sports Notes. 9.30 p.m.—Dance Music. 10.30 p.m. (approx.)—Close Down.

WILNO (Poland)

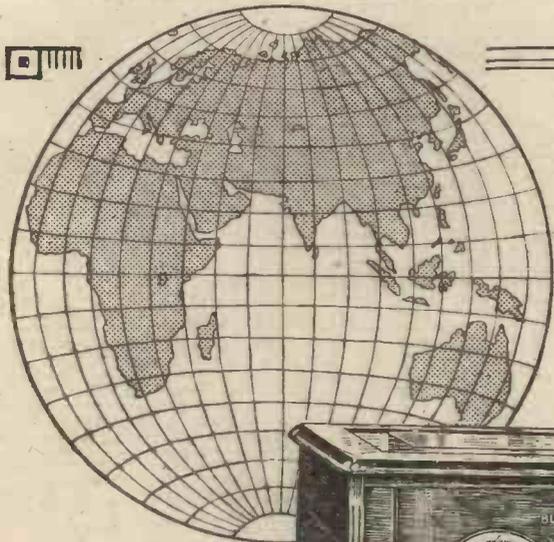
Polskie-Radio. WL. 435 m. (689 kc); 0.5 kw. 3.0 p.m.—News in Lithuanian. 3.15 p.m.—Sports Notes. 3.30 p.m.—Talk. 3.55 p.m.—Agricultural Talk. 4.20 p.m.—Programme relayed from Warsaw. 4.50 p.m.—Talk for Women. 5.15 p.m.—Literary Talk. 6.0 p.m.—News. 6.25 p.m.—Time and Variety. 6.35 p.m.—Talk, "Polish Mineral Salts and Ores." 7.30 p.m.—Programme relayed from Warsaw. 9.30 p.m.—Dance Music. 10.30 p.m. (approx.)—Close Down.

ZAGREB (Yugoslavia)

Radioklub - Zagreb. WL. 310.5 m. (956 kc); 0.35 kw. 12.15 p.m.—Gramophone Selections. 12.30 p.m.—Exchange and News. 4.30 p.m.—Children's Corner. 6.0 p.m.—Talk on Books. 6.15 p.m.—Announcements. 6.30 p.m.—Relay of an Opera from the National Theatre.

ZURICH (Switzerland)

Radio-Genossenschaft. WL. 588.2 m. (510 kc); 2 kw. 11.50 a.m.—News. 12.35 p.m.—Weather and Exchange. 2.0 p.m.—Gramophone Records. 4.10 p.m.—Harmonium Recital. 4.45 p.m.—Weather and Market Prices. 6.0 p.m.—Chimes. 6.30 p.m.—Time and Weather. 6.32 p.m.—Talk, "The Cause of Divorce and its Result." 7.0 p.m.—Programme from Vienna. 1.0 p.m.—Weather and News. 9.0 p.m.—Gramophone Dance Music.



The Burndept "Screened Four" gives loud speaker reception of amazing volume from stations thousands of miles away.

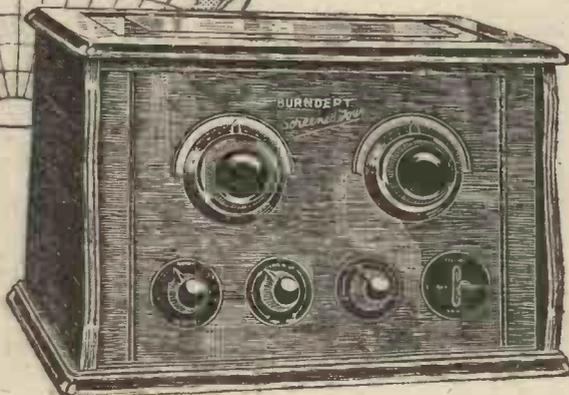
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STATIONS IN ORDER OF WAVELENGTHS AND FREQUENCIES.

M.	Kc.	EUROPEAN
4000	75	Berlin (Königswusterhausen) AFP, 8 kw.
2900	103	Paris (Eiffel Tower), FL, 5 kw.
2650	113	Berlin (Wolff's Bureau), Intermittent News during the day.
2525	119	Köln (Lithuania), 15 kw.
2000	150	Scheveningen Haven (Holland), 2.5 kw.
1950	154	Huizen (From 5.40 p.m. till closing down).
1870	160	Kosice (Czecho-Slovakia), 5 kw. DAILY—6.30—9.0 p.m.
1870	160	Norddeich (Germany), WEEKDAYS—12.0 mid-night, Weather Report.
1800	167	Angora (Turkey), 6 kw.
1700	171	Paris (Radio-Paris) CFR, 3 kw. (Aer.)
1700	176	Kharkov Narkompshtel (Russia), 1.5 kw.
1604.8	187	Davenport (5XX), 25 kw. (Aer.)
1525	198	Lahti (Finland), 10 kw. (testing), 4-5 p.m.
1450	207	Moscow (Old Komintern), RA1, 20 kw. DAILY—2.0 p.m.
1380	217	Motala (Sweden), 20 kw. (Aer.) Relays Stockholm
1250	240	Königswusterhausen (Zeessen), 35 kw. In Aerial
1190	252	Boden (Sweden), 1 kw.
1180	254	Stamboul (Turkey) 5 kw.
1153.8	260	Kalundborg (Denmark), 7.5 kw. (Aer.)
1150	261	Ryvangen (Denmark), 1 kw.
1117	269	Novosibirsk (Russia), RA 33, 4 kw. 5 p.m.
1111.1	270	Warsaw (Poland), 10 kw. (Aer.)
1100	273	De Bilt (Holland), WEEKDAYS—8.15 p.m. Weather.
1069	280.5	Hilversum (Holland) ANRO, 5 kw. (Aer.)
1000	300	Basle (Switzerland), 0.25 kw. DAILY—7.30—9.5 p.m.
995.5	301.4	Leningrad (Russia), 10 kw. WEEKDAYS—5 p.m., Lecture: 6.0 p.m., News: 6.30 p.m. Concert or Opera. SUNDAY—5.0 p.m., Lecture, 6.0 p.m., News: 6.30 p.m., Concert.
870	345	Tiflis (Russia), 4 kw.
860	349	Nijni Novgorod (Russia), 1.2 kw.
850	353	Rostov/Don (Russia), 4 kw. 3.10 p.m.
820	366	Kiev (Russia), 1 kw.
760	395	Geneva (Radio-Geneve), 0.5 kw. WEEKDAYS—7.40 p.m., Concert and News.
720	416	Ostersund (Sweden), 2 kw. Relays Sundsvall.
680	441	Lausanne (Switzerland), HB2, 1.5 kw. DAILY—8.0 p.m., Concert. Talk.
675	444	Moscow (Popoff).
582.2	510	Zürich (Switzerland), 2 kw.
576	520	Vienna (Stubenberg), 0.75 kw.
575.8	521	Kreuzberg (Germany), 0.75 kw.
566	530	Augsburg (Germany), 1.5 kw. Relays Munich.
566	530	Bloemendaal (Holland), 0.05 kw. SUNDAYS—9.40 a.m. and 4.40 p.m., Church Service.
566	530	St. Michel (Finland).
566	530	Cracow (Poland), 1.5 kw.
555.8	540	Hamar (Norway), 0.7 kw. Relays Oslo.
555.8	540	Budapest (Hungary), 3 kw.
549.3	548	Milan, 7 kw.
545.8	550	Sundsvall (Sweden), 1 kw.
535.7	560	Munich (Germany), 4 kw. SUNDAY—10.30 a.m., Concert.
517.2	580	Vienna (Rosenhügel), 5 kw.
508.5	590	Brussels, 1.5 kw.
500	600	Aberdeen (2BD), 1.5 kw.
500	600	Uppsala (Sweden), 0.25 kw. Relays Stockholm.
500	600	Lindköping (Sweden), 0.25 kw. Relays Stockholm.
500	600	Porsgründ (Norway), 1 kw. Relays Oslo.
491.8	610	Davenport Experimental (5GB), 25 kw. In Aerial.
487	618	Kharkov (Russia) 4 kw.
484.6	619	Berlin (Witzleben), 4 kw.
477.7	628	Lyons (France) (La Doua), PTT, 1 kw. MON., WED., & FRI—9.45 p.m., Concert. SUN., TUES., THURS., & SAT.—Relays Ecote Superieure.
470	638	Langenberg (Germany), 25 kw.
462	649	Barcelona (Spain) (Radio Catalana) EAJ13, 1 kw.
461.5	650	Oslo (Norway), 1.5 kw.
458	655	Paris (Ecote Superieure), FPTT, 0.5 kw.
453.8	661	Stockholm, 1.5 kw.
450	666	Moscow (Trades Union), RA2, 4 kw. 3.0 a.m.—8.0 p.m.
448.4	669	Rome (IRO), 3 kw.
448	670	Rjukan (Norway), 0.1 kw. Relays Oslo.
446	672	Malbogot relays Boden.
441	680	Brünn (Czecho-Slovakia), 3 kw. DAILY—6.0 p.m.; Concert and News. THURS.—4.40 p.m., Talk for Women. SUN.—10.0 a.m., Concert.
435	688	Wilno (Poland), 0.5 kw.
434.8	690	Seville (Spain) (Union Radio), EAJ5, 2 kw.
434.8	690	Tredrikstad (Norway), 0.7 kw. Relays Oslo.
428.8	700	Frankfurt-on-Main (Germany), 4 kw.
426.5	570	Riga (Latvia), 2 kw. DAILY—10.35—11.0 a.m. and 5.0—8.30 p.m., Concert, News, Weather.
422	710	Kattowitz (Poland), 12 kw.
416.7	720	Göteborg (Sweden), 1 kw.
411	730	Berne (Switzerland), 1.5 kw.
411	730	Notodden (Norway), 0.7 kw. Relays Oslo.
408	735	Tallinn (Reval), Estonia, 2.2 kw.
405.4	740	Glasgow (58C), 1.5 kw.
405	741	Salamanca (Spain), EAJ22, 1 kw. DAILY—9.30 p.m., Concert. 10.30 p.m., Dance Music.
401	748	Aix-la-Chapelle (Germany) 0.75 kw.
400	750	Cadix (Spain), EAJ3, 0.5 kw.
400	750	Mont de Marsan (France), 4 kw.
400	750	Madrid (Radio Espana) (EAJ2), 0.5 kw.
400	750	Cork (Irish Free State), 6CK, 1.5 kw.
400	750	Plymouth (5PY), 0.2 kw.
400	750	Tammerfors (Finland). Relays Helsingfors, 0.25 kw.
400	750	Bilbao (Spain) EAJ9, 0.5 kw.
396	757	Hamburg (ha, in Morse), 4 kw.
391	767	Toulouse (France) (Rad. du Midi), 3 kw. DAILY—12.40 p.m., Concert. 8.50 p.m., Concert.
384.6	780	Manchester (2ZY), 1.5 kw.
380.7	784	Stuttgart (Germany), 4 kw.
375.9	798	Helsingfors (Finland), 1.2 kw. 8.0 a.m. Exchange Quotations. DAILY—4.0—7.0 p.m., Concert.
375	800	Madrid (Union Radio), EAJ7, 1.5 kw.
370	811	Paris (Radio LL), 0.5 kw. MONDAY, WEDNESDAY and FRIDAY—10.0 p.m., Concert.
369.9	811	Bergen (Norway), 1.5 kw.
368.3	819	Leipzig (Germany), 4 kw.
361.6	830	London (2LO), 3 kw.

M.	Kc.	EUROPEAN
357.1	840	Graz (Austria), 0.5 kw. Usually relays Vienna.
355	845	Falun (Sweden), 2 kw.
353	850	Cardiff (5WA), 1.5 kw.
348.9	860	Prague (Czecho-Slovakia), 5 kw. DAILY—7.0 p.m., Concert.
344.8	870	Barcelona (Spain) Radio Barcelona, EAJ1, 1.5 kw.
344	872	Posen (Poland), 1.5 kw.
340.9	880	Paris (Petit Parisien), 0.5 kw.
340.9	880	Huizen (Holland), 4 kw. (till 5.40 p.m.).
337	890	Copenhagen, 1 kw.
335	895	San Sebastian (Spain), EAJ8, 0.5 kw.
335	895	Cartagena EAJ16 (Spain), 1 kw.
333.3	900	Reykjavik (Iceland), 1 kw.
333.3	900	Naples (INA), 1.5 kw.
330.3	908	Königsberg (Germany), 4 kw. DAILY—7.10 p.m., Concert.
326.1	920	Bournemouth (6BM), 1.5 kw.
323.9	926	Almeria (Spain) EAJ18, 1 kw.
322.6	930	Breslau (Germany), 4 kw.
319.1	940	Dublin 2RN, 1.5 kw.
312.5	969	Newcastle (5NO), 1.5 kw.
310.2	967	Marseilles PTT, 0.5 kw. WEEKDAYS—9.0 p.m. Concert.
310.5	966	Zagreb (Yugoslavia), 0.35 kw. DAILY—6.0 p.m.
310	967	Oviedo (Spain), 0.1 kw.
306.1	980	Belfast (2-BE), 1.5 kw.
304	986	Björneborg (Finland). Relays Helsingfors.
303	999	Münster (Germany) m.s. in Morse, 1.5 kw.
302	993	Paris (Radio Vitus), 1 kw. WEDNESDAYS, FRIDAYS, and SUNDAYS. From 9—10.45 p.m., Concert.
300	1000	Bratislava (Czecho-Slovakia), 0.5 kw.
297	1010	Agen (France), 0.25 kw. TUES. and FRI.—9.30 p.m., Concert.
297	1010	Liverpool (6LV), 0.2 kw.
297	1010	Varberg, 0.2 kw. Relays Göteborg.
297	1010	Jyväskylä (Finland), 0.2 kw. Relays Helsingfors.
297	1010	Hanover (Germany), 0.7 kw. Relays Hamburg.
295	1016	Rennes (France), 0.5 kw.
294.1	1020	Hull (6KH), 0.2 kw.
294.1	1020	Dundee (2DE), 0.2 kw.
294.1	1020	Stoke (6ST), 0.2 kw.
294.1	1020	Swansea (58X), 0.2 kw.
294.1	1020	Uddevalla (Sweden), 0.25 kw. Relays Göteborg.
294.1	1020	Innsbruck (Austria), 0.5 kw. Relays Vienna.
289	1038	Lyons (Radio-Lyon), 1.5 kw. WEEKDAYS—7.15 p.m., News. WEEKDAYS (except MON.), 7.45 p.m., Concert.
288.5	1040	Edinburgh (2EH), 0.2 kw.
283	1066	Cologne (Germany), 4 kw.
278.8	1076	Trollhättan (Sweden), 1 kw. Relays Göteborg.
278	1097	Grenoble, 1 kw. WED. and SAT. only.
278	1076	Kiel (Germany), 0.7 kw. Relays Hamburg.
277.8	1080	Leeds (2LS), 0.2 kw.
275.2	1090	Dresden (Germany), 0.7 kw. Relays Leipzig.
275.2	1090	Jacobstad (Finland).
275.2	1090	Nottingham (England), 5NG, 0.2 kw.
275.2	1090	Norrköping (Sweden), 0.25 kw. Relays Stockholm.
275	1090	Bordeaux (lafayette), PTT, 1 kw.
273	1098	Limoges (France), 0.5 kw.
272.7	1100	Sheffield (6PL), 0.2 kw.
272.7	1100	Bremen (Germany), 0.75 kw. Relays Hamburg.
272.7	1100	Danzig, 0.75 kw. DAILY—10.0 a.m., Weather. 10.30 a.m., Concert. 1.15 p.m., Exchange Quotations. 3.0 p.m., Relays Königsberg.
272.7	1100	Hudiksvall, 0.25 kw. Relays Stockholm.
272.7	1100	Klagenfurt (Austria), 1.5 kw. Relays Vienna.
268	1119	Strasbourg (France), 0.1 kw. TUESDAY and THURSDAY—10.0 p.m., Concert, Talk and News.
267.8	1086	Lille, 0.5 kw. PTT.
260.9	1150	Malmö (Sweden), 1 kw.
259	1160	Toulouse (France), PTT, 0.5 kw.
254.2	1190	Kalmar (Sweden), 0.25 kw. Relays Stockholm.
252.1	1190	Cassel (Germany), 0.7 kw. Relays Frankfurt.
252.1	1190	Bradford (2LS) 0.2 kw. Transmits Leeds programmes.
252.1	1190	Montpellier (France), 0.25 kw. WEEKDAYS—8.45 p.m., News. 9.0 p.m., Concert or Talk.
252.1	1190	Säffe (Sweden), 0.5 kw. Relays Stockholm.
250	1200	Eskilstuna (Sweden), 0.25 kw. Relays Stockholm.
250	1200	Gleiwitz (Germany), 0.7 kw. Relays Breslau.
250	1200	Uleaborg (Finland). Relays Helsingfors, 0.2 kw.
246	1220	Nice-Juan-les-Pins (France), 0.25 kw.
243.9	1230	Tromsø (Norway).
241.9	1240	Nürnberg (Germany), 4 kw. Relays Munich.
238.1	1260	Kiruna (Sweden), 0.25 kw. Relays Boden.
237	1265	Bordeaux, 1.5 kw.
236.7	1267	Stettin (Germany). Relays Berlin, 0.75 kw.
236.2	1270	Orebro, 0.25 kw. Relays Stockholm.
230.2	1303	Boras (Sweden), 1 kw. Relays Göteborg.
230	1304	Radio Schaarbeek from 8.30 p.m.
229	1310	Helsingborg, 0.25 kw. Relays Malmö.
229	1310	Umea, 0.25 kw. Relays Stockholm.
225.6	1330	Belgrade (Yugo-Slavia), 2 kw.
220.6	1360	Karlstad (Sweden), 0.25 kw. Relays Stockholm.
217.4	1360	Luxembourg, 0.25 kw.
215.8	1390	Halmstad (Sweden), 0.25 kw. Relays Malmö.
214.3	1400	Viborg (Finland), 0.7 kw.
204.1	1470	Gävle (Sweden), 0.25 kw. Relays Stockholm.
204.1	1470	Kaiserslautern (Bavaria), 2 kw. 5.0 p.m. WEEKDAYS, and 10.0 a.m. SUNDAYS.
202.7	1480	Kristinehamn (Sweden), 0.1 kw. Relays Stockholm.
201.3	1490	Jönköping (Sweden), 0.5 kw. Relays Stockholm.
198	1515	Blarritz (Côte d'Argent, France), 0.25 kw.
196	1530	Kariskrona (Sweden), 0.25 kw. Relays Stockholm.
187.5	1600	Ornskoldsvik, 0.25 kw. Relays Sundsvall.
158	1899	Beziere (France), 0.5 kw.

M.	Kc.	EUROPEAN
475.9	630	Atlanta, Ga. (WSB), 1 kw.
468.5	640	Los Angeles, Cal. (KFI), 5 kw.
461.3	650	Shenandoah, Ia. (KFNZ), 2 kw.
454.3	660	Bound Brook, N.J. (WJZ), 30 kw.
447.5	670	Seattle, Wash. (KFOA), 1 kw.
440.9	680	Detroit, Mich. (WJR), 5 kw.
440.9	680	Detroit, Mich. (WCX), 5 kw.
428.3	700	Cincinnati, O. (WLW), 5 kw.
422.3	710	Newark N.J. (WOR), 8.5 kw.
416.4	720	Chicago, Ill. (WLIB), 1.5 kw.
405.2	740	Minneapolis, Min. (WCCO), 5 kw.
399.8	750	Cleveland, O. (WTAM), 3.5 kw.
394.5	760	St. Col., N.M. (KOB), 5 kw.
389.4	770	Chicago, Ill. (WBBM), 5 kw.
384.4	780	Oakland, Cal. (KGO), 5 kw.
379.5	790	Schenectady, N.Y. (WGY), 50 kw.
374.8	800	Davenport, Ia. (WOC), 5 kw.
361.2	830	Cincinnati, O. (WSAI), 5 kw.
348.6	860	Seattle, Wash. (KJR), 2.5 kw.
344.6	870	Chicago, Ill. (WLS), 5 kw.
344.6	870	Zion, Ill. (WGBD), 5 kw.
336.9	890	Nashville, Tenn. (WSM), 5 kw.
333.1	900	Springfield, Mass. (WBGZ), 15 kw.
325.9	920	Denver, Colo. (KOA), 2.5 kw.
319	940	Council Bluffs, Ia. (KOIL), 5 kw.
319	940	Lincoln, Neb. (KFAB), 5 kw.
315.6	950	Pittsburgh, Pa. (KDKA), 50 kw.
309.1	970	New York (WABO), 2.5 kw.
305.9	980	Chicago, Ill. (WIBO), 3 kw.
305.9	980	Chicago, Ill. (WHT), 5 kw.
299.8	1000	St. Louis, Mo. (KMOX), 5 kw.
285.5	1050	Baltimore, Md. (WBAL), 5 kw.
285.5	1050	Boise, Idaho (KFAU), 2 kw.
282.8	1060	Columbus, O. (WAIU), 5 kw.
280.2	1070	Rochester, N.Y. (WHAM), 5 kw.
275.1	1090	Chicago, Ill. (WTAS), 3.5 kw.
272.6	1100	Atlantic City, N.J. (WPG), 5 kw.
265.3	1130	Ames, Ia. (WOL), 2.5 kw.
265.3	1130	San Antonio, Tex. (KTSK), 2 kw.
263	1140	Mt. Prospect, Ill. (WJAZ), 5 kw.
260.7	1150	Spokane, Wash. (KGA), 2 kw.
256.3	1170	Muscatine, Ia. (KNTT), 2 kw.
252	1190	Batavia, Ill. (WORD), 6 kw.
252	1190	Chicago, Ill. (WOK), 5 kw.
252	1190	Honolulu, Ill. (WMBB), 5 kw.
247.8	1210	Miami Beach, Fla. (WIOD), 1 kw.
239.9	1250	Portland, Ore. (KEX), 2.5 kw.
228.9	1310	Fort Wayne, Ind. (WOWO), 2 kw.
202.6	1480	Mt. Vn. Halls, Va. (WTFP), 10 kw.
202.6	1480	Gainesville, Fla. (WHBN), 5 kw.

M.	Kc.	CANADA
516.9	580	Toronto (CKSM), 1 kw.
516.9	580	Toronto (CFRB), 1 kw.
516.9	580	Toronto (CJCY), 0.5 kw.
516.0	580	Edmonton (CNRE), 0.5 kw.
434.5	690	Ottawa (CNRO), 0.5 kw.
434.5	690	Calgary (CPCN), 1.8 kw.
434.3	690	Calgary (CNRC), 0.5 kw.
411	730	Montreal (CKAC), 1.2 kw.
411	730	Montreal (CNRM), 1 kw.
410.7	730	Montreal (CFOP), 1.6 kw.
410.7	730	Vancouver (CHPC), 1 kw.
410.7	730	Vancouver (CKCD), 1 kw.

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25 1/-	50 1/4	125 1/10	250 2/6
30 1/1	60 1/5	150 2/-	300 2/9
35 1/2	75 1/6	175 2/2	400 3/3
40 1/3	100 1/8	200 2/4	500 4/-

Centre. tapped—ALL SIZES 6d. EXTRA.

X double tapped in 4 sizes:

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4 Coils: 3—5—7—9.

7/6 the Set.

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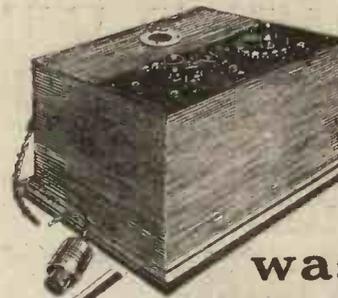
WARNING

INCOMPLETE WIRELESS RECEIVING APPARATUS.

The attention of Marconi's Wireless Telegraph Co., Ltd., has been drawn to the practice, increasingly adopted by manufacturers of and dealers in broadcast wireless receiving apparatus, of advertising and selling apparatus (e.g., apparatus involving resistance capacity coupling) which is assembled and wired and needs only some addition or additions, frequently small, to constitute an instrument covered by Marconi patents. If no Marconi royalty is demanded by the seller upon the sale of such apparatus, the purchaser often infers that no Marconi royalty will become payable when he converts the apparatus into a complete instrument and uses it. This inference is erroneous.

The Company desires to warn all whom it may concern that the fact of no royalty being demanded by the seller does not mean that no royalty is in such circumstances payable by the purchaser. Some sellers adopt the practice deliberately with a view to avoiding liability on their part to pay Marconi royalties, but, in any case, if the purchaser converts the apparatus into a complete instrument he is liable to pay a royalty for its use to the Company, as he also is if he makes the complete instrument by purchasing and assembling a number of unassembled or partly assembled parts.

Owing to the increasing prevalence of the practice above mentioned, the Company hereby gives special notice that both on its own behalf and on behalf of its Licensees it intends to protect its patent rights by every means possible and that if necessary it will take legal proceedings.



Model D.C.1, £3 15s. complete.

Are you wasting your money on High Tension Batteries?

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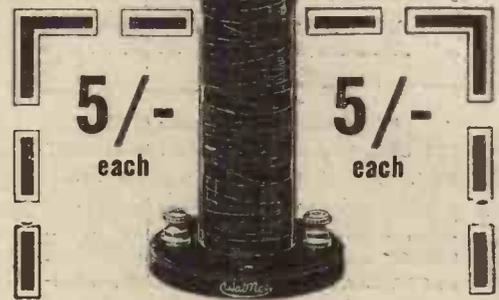
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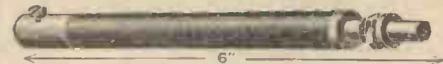


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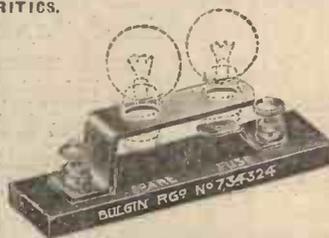


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