

Vol. XIV No. 353

Registered at the G.P.O. as a Newspaper

FRIDAY, APRIL 29, 1932

Three Pence

THE SHAKESPEARE MEMORIAL THEATRE

THE ELEMENTS OF WIRELESS (Part 12)

SHORT WAVE TROUBLES

FREQUENCY CHARTS OF THE BRUSSELS CHECKING STATION

THE STORY OF BROADCASTING HOUSE: ELECTRICAL PLANT AND POWER SUPPLY



Royal Opera House, Stockholm, from which a performance of "Carmen" will be broadcast on Monday, May 2.

Protect Your Mains Set with a



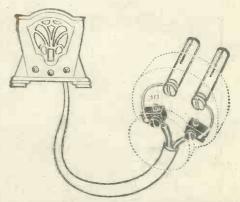
- 1. Handshield Protection.
- 2. Spare Fuse Wire.
- 3. Asbestos-faced Interior.
- 4. Separate Chambers for parts of Opposite Polarity.
- 5. Fuses on Both Poles.
- 6. Non-cut Washers clamping Fuse Wire.
- 7. Asbestos Cord.
- 8. Split Plug Pins.
- 9. Adjustable Cord Grip.
- 10. Fireproof Base.

This new FUSED Plug, therefore, gives individual protection to any apparatus with which it is employed and, in the event of fusing troubles occurring, a spare supply of wire for six new fuses is actually carried on a little reel inside the handle of the

No technical knowledge, again, is required to fit this plug. You merely disconnect the existing plug and clamp the two cable leads under the screws as indicated in the diagram below. The FUSED Plug is designed to fit any standard 2-Pin 5 Amp. Socket.

Ask your electrical contractor for a Crabtree No. 7108 FUSED Plug, or order direct on the convenient

form provided below.



Use this convenient order form NOW

disconnect the radio set from the

supply mains without interfering with the lighting or other apparatus.

Other Electrical Products for the Wireless Constructor

- B Handshield Lampholder Adapter, Cat. No. 6841,
- 2s. each.

 2s. each.

 Shockproof Moulded Pear Switch, Cat. No. 5870, 1s. 10d. each.

ACTUAL SIZE

5 Amp. Socket Adapter for 3 (2-Pin) Plugs, Cat. No. 6837, 1s. 4d. esch. 5 Amp. 3-Pin (Ordinary) Standard Plug, Cat. No. 7110, 1s. 5d each.

(All the above accessories can be purchased from your electrical retailer. When ordered direct from the makers, an extra of 3d. per accessory must be enclosed towards postage and packing.)

. a name synonymous with Progress in Accessories and Switchgear

To: J. A. CRABTREE & Co., Ltd. (Dept. R), Lincoln Works,

Walsall, England.

for which I enclose postal order for.....

(PLEASE WRITE IN BLOCK CAPITALS)

Name....

WORLD-RADIO

Vol. XIV No. 353

Registered at the G.P.O. as a Newspaper.

FRIDAY, APRIL 29, 1932

THREE PENCE



Letters should be addressed to The Editor, "WORLD-RADIO," Broadcasting House, London, W.1.

RATES OF SUBSCRIPTION to "World-Radio" (including postage). Twelve months: Inland, 17s. 4d.; Canadian, 17s. 4d.; Foreign, 19s. 6d. Six months: Inland, 8s. 8d.; Canadian, 8s. 8d.; Foreign, 9s. 9d. Address: "World-Radio," 8-11. Southampton Street; Strand, London, W.C.2.

"Mechanised" Aids to Learning

" THOSE sentimentalists who combine actual enjoyment of all the fruits of mechanism with an unquenchable taste for railing at it are, curiously enough, usually pedants who place more value on the language in which a thought is expressed than on the thought itself." Professor Heath, Vice-Chairman of the British Institute of Adult Education, thus defends modern methods ancillary to education against the attacks of traditionalists. Sight and Sound, the first number of which has recently appeared, and from which the quotation is taken, is a quarterly magazine having as its purpose the review of present-day aids to education, and is published under the sponsorship of the British Institute of Adult Education. Its appearance is a direct result of the interest awakened by two exhibitions—held in 1930 and 1931 respectively—devoted to "mechanised aids to learning." These aids to learning, about which the review purposes to disseminate information, are for the most part scientific inventions-the broadcast receiver, the cinematograph, and the gramophone-in their application to the requirements of the class-room, the lecture-room, the home study, and the

In the development of broadcast instruction to schools, not only in this country, but in every other in which this method of education is used, emphasis is laid on the fact that the loud speaker is to supplement and not to supplant the class-room teacher. So it is made clear in Sight and Sound on behalf of all concerned that "no one wants to displace the personality of the teacher from its essential position of importance in the educative process." Rather the object is to draw attention to the "marvellous new tools" that science has placed in the hands of the teacher, tools the use of which is bound to have a vast effect upon the whole technique of teaching and of conveying information.

To the mechanised agencies we have mentioned it is necessary to add another, television, which, in coming years, should play a very considerable part in the complete educational curriculum. Just as the spoken word is frequently more emphatic and vital than the written word, so the moving representation of the scene described is likely to impress itself on the memory even more than the verbal description. It is not the least important

aspect of these educational developments that they are world-wide and international in their application, for it is on the larger, world-wide aspect of education that its chief hopes for the future depend.

Viâ Ether

Spring in the Ether

CUNDAY next being May Day it is perhaps natural that the broadcasting programmes should be framed to welcome the entry of Thus I see that the inimitable Liedersinger, Elena Gerhardt, is to give a recital of "May and Spring Songs" before the Leipzig microphone at 6.15 in the evening. Stuttgart and Frankfurt announce a "spring" concert for 9 p.m., Copenhagen's transmission at 9.40 is entitled "Danish Spring," and at 10.45 Hamburg is to broadcast a concert under the heading "Concert in May." The morning concert to be heard from Prague, at 10.30, appears in the programme under the heading, "In Memory of Dvorák." This is no doubt to commemorate the anniversary of his death, which occurred at Prague, on May I, 1901. The Warsaw Philharmonic Orchestra's usual Sunday morning concert consists of a programme of French music. This is made the more interesting by the fact that last week's article in World-Radio's series, "Music from Other Lands," dealt with French music. Finally, at 9.50 p.m. one of the most eminent 'cellists of the day, Herr Emanuel Feuermann, is to give a recital in the Warsaw studio. By a coincidence another great 'cellist—by many judges considered the foremost artist on this instrument-Patigorsky, appears as soloist in a symphony concert which the North Italian stations are broadcasting at 9 p.m. on the following evening. Monday evening's programmes are also made interesting by the appearance before the Vienna microphone of the tenor Josef Schmidt. I have heard him on a previous occasion; he has a magnificent voice, which appears to be eminently suited to the microphone.

Operatic Programmes

Many attractive operatic broadcasts appear in next week's programmes. At 7.30 p.m. on Sunday the performance at the Budapest Opera House of Johann Strauss's Gipsy Baron is to be relayed by that station. At 9 p.m the North Italian stations are broadcasting a studio performance of Bellini's I Puritani. To commemorate the very recent death of Eugen d'Albert the Charlottenburg. Opera House is performing on Monday his best-known opera, Tiefland, which will be relayed, but, unfortunately, by the Berlin commonwave stations only. Three more Operatic transmissions are announced for the same evening. Leipzig is broadcasting The Corregidor, one of the two operas that Hugo Wolf wrote. He is better known perhaps as the most prolific writer of songs of our time. The performances of Puccini's La Bohème and Bizet's Carmen at the Munich and Stockholm

opera houses respectively, are to be relayed, the former by the Munich group of stations and the latter by Stockholm and Oslo. Verdi's Macbeth is to be performed at the Frankfurt Opera House at 8 p.m. on Tuesday, and will be broadcast by Frankfurt and Stuttgart. Saturday's transmission from Rome is an opera by Francesco Cilea. Its title has been omitted in the programme. On Saturday last I listened to Rome's relay from the San Carlo Theatre, Naples. The opera produced was Francesco Cilea's Gloria. I think next Saturday's broadcast is the same work, which, incidentally, impressed me very much on a first hearing.

A Week-Day Church Cantata

THURSDAY'S performance of a Bach Cantata next week, as well as one on SUNDAY, recalls the great Bach's assiduity in providing suitable music for all the great festivals of the Church year. There were nine Sundays on which the service included no Cantata—the last three in Advent and the six in Lent-but the other days on which such music was looked for bring the total to fifty-nine in each year. From the best historical evidence available it is pretty certain that Bach composed five complete sets of fiftynine, writing a fresh one week by week as a parson might compose his sermons, with no thought that each was a master-work which mankind would treasure for all time coming. His own humility about them has resulted in the complete loss of over one hundred cantatas, but we still possess a hundred and ninety, a rich store of devotional music which is unique in its own class. The one which Dr. Straube and his splendid forces-the Gewandhaus Orchestra, and the choir of St. Thomas, Leipzig, Bach's church-are to broadcast on Ascension Day, is among the noblest.

* *

A Froebel Anniversary

THE hundred and fiftieth anniversary of the birth of Friedrich Froebel, of kindergarten fame, was celebrated extensively by German broadcasting stations. When Froebel opened his first kindergarten in 1836, at Blankenberg, it was looked upon with considerable disapproval by the Prussian Government, as his anti-disciplinary views were thought to tend towards revolution. He considered that people concentrated too much on the later years of a child's life instead of on the early period. He was not in favour of stimulating the intellect of the very young, but of their mental development along recreative lines. The "Wireless Kindergarten" is a regular feature of the Königs Wusterhausen station, and I learn from a correspondent that it is one of the most popular of the young people's programmes, and that, judging by letters received from Germans domiciled abroad, this feature is much appreciated by those exiled from the Fatherland, who are intensely grateful for such an opportunity of letting their families learn how the German kindergarten and the German fairy tale-which have found their way all over the world-are interpreted in the land of their origin.

ETHERVIATOR

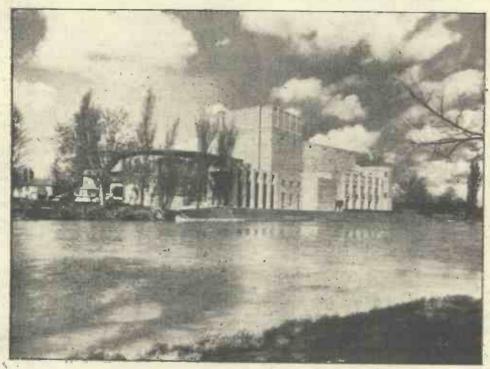
The Shakespeare Memorial Theatre

S far as we know, Stratford-upon-Avon made no demonstration when Shakespeare died, but on Saturday, April 23, the greatest festival ever seen in the town was held in his honour; on that day the new Memorial Theatre stood ready, waiting only the coming of England's Prince to open its doors.

From early morning the inhabitants of the town had been astir, putting finishing touches to the flower decoration that garlanded the streets, or pressing forward with the day's work in order to be at the great event. By ten

Every modern device for efficient and effective staging is there, from the bells which call the actors from their dressing-rooms to the great rolling stages which can be swung into position at a touch.

From twelve o'clock onwards the activity by the river increased. On the central terrace raised dais had been built and from this the Prince of Wales would speak. To the left of the dais, almost touching the water, stood the B.B.C. van and the enclosed hut from which Mr. Percy Edgar, the Midland Regional Director,



o'clock the town was full of people. Every train brought fresh arrivals, and car after car purred up the main street, which looked like a Japanese garden with trees of almond blossom and green festoons.

In the New Place Gardens was erected a huge marquee, where at twelve o'clock lunch would be served to ambassadors of over seventy different nations. In an adjacent cloakroom B.B.C. engineers were fixing their apparatus and making final tests for the broadcasting of the after-luncheon speeches. Lines ran from the cloakroom along the turf to the high table, where microphones were installed. Of necessity the lines were a good deal exposed, and some anxiety was felt lest the guests should trip over them. Fortunately, no such accident occurred, and the broadcast went through without a hitch.

Down by the Avon activity was at its height. The new theatre was the centre of attention. Although no one was allowed in until after the official opening, the visitors wandered round, no doubt offering their private opinions on this much-discussed building, designed by Miss Elizabeth Scott.

It stands along the waterside, a huge pile of fine red brick as yet unsoftened by wind and rain. A great tower, 117 feet high from the basement, looms square and uncompromising above the mass. Down in tiers comes the rest of the theatre until, on the ground floor, stately doors open on to terraces which run down to the gardens and the water's edge.

Inside, exquisite workmanship has done beautiful things with natural woods, Swedish marble, and rare metals. A stage such as would have sent Shakespeare to the seventh heaven of delight has been designed to house his plays.

would deliver his running commentary. A barricade had been erected round the terrace, but behind this, in the gardens and down the wide road beyond, a tremendous crowd surged and swaved.

Soon after one o'clock loud-speakers which were fixed to flagpoles about the ground relaved the voices of Mr. Stanley Baldwin and other distinguished visitors who spoke at the luncheon. At two o'clock the running commentary was timed to begin, and Mr. Percy Edgar mounted the commentator's box; and from there he described for listeners the scene before him.

Before long the whirr of engines attracted the attention of the crowd; they looked up, and on the other side of the river circled a monoplane carrying the Prince. It landed in a distant meadow, and in a few moments, his Royal Highness had boarded a car and was on his way to the theatre. Small boats which had been lazing about the sunlit river scurried to the bridge to see the royal car dash by. The moment it appeared round the corner of the road the crowd raised a cry which grew to a storm of cheering as the Prince mounted the dais. His opening speech was broadcast throughout the Empire and to America.

When he had paid his tribute to the poet, the Prince descended the steps and unfurled the Royal Flag; it fluttered out in the strong breeze. Simultaneously, the flags of sixty-nine other nations which were set up about the theatre were released, and in a flash the scene was ablaze

with waving banners.

Then his Royal Highness walked to the entrance of the theatre, where he was met by Miss Elizabeth Scott, who handed him a golden key with which to unlock its doors. theatre was open.

Letters to Editor

Coincidences in Listening To the Editor of WORLD-RADIO

SIR,—I work a short-wave receiver, and when the set is tuned in to W2XAD, Schenectady, on 19.56 metres, I sometimes get a faint background of the London Regional programme. One Saturday evening I was listening to W2XAD and the correct time was being given. The announcer said, "When you hear the bell, it will be exactly 1.30 p.m. by the General Electric clock." There followed the ring of a bell, and at precisely the same second the first of the six pips of the 6.30 p.m. time signal from Greenwich could be heard faintly in the background.

Yours faithfully, W. E. GARNER. 105, Essex Road, Barking, E, April 22.

Reception Conditions in Gibraltar To the Editor of WORLD-RADIO

SIR,—The interesting article on reception conditions in Gibraltar which appeared in the issue of World-Radio for April 15 contains two errors which might give a wrong impression of this colony.

The population is given as 18,000 made up largely of Spaniards, whereas the actual facts are that out of a total population of 21,372 at last year's census, there were only 1,125 Spanish subjects, as against 16,146 British subjects, in the civil population. The naval and military population amounted to 3,759.

The Gibraltar Chronicle, which was founded in 1801, far from printing the briefest of cabled

messages, publishes the full and excellent news service supplied by Reuters, amounting to some 12,500 words per month in the abbreviated form in which cabled, and is very considerably more than this when edited for publication daily.

Yours faithfully, G. H. Teall (Editor). Gibraltar Chronicle, Gibraltar, April 19.

To the Editor of WORLD-RADIO

SIR,-The article by "G. M. B." on reception conditions in Gibraltar has produced much comment here in Gibraltar.

He states that he has only paid a short visit to Gibraltar. May I say that the whole article discloses that fact without his further assurance. I have spent several years here and know as much as anyone about this subject, yet I can only agree on one point with "G. M. B." That is regarding the proximity of the Sahara Desert having detrimental effects on our recep-The Gibraltarian population are also rather averse to being described as Spaniards, as they are just as much Britishers as Australians or Canadians.

But to return to reception conditions. Very few sets of less than 2 S. G-Det.-Pen. are in use, and quite a large number are American super-hets using up to eight or nine valves. Ninety per cent. of the receivers are all-electric, and these receivers can be obtained easily, whilst at two shops only can components be obtained and these are very limited in range.

Long-wave work, with but few exceptions, very bad, Daventry giving only about onethird of the volume of the medium-wave stations. The statement regarding the reception of Madrid is the worst mistake he has made, as this station is the most difficult of all to receive and is very weak. Lisbon and Seville also fall into this category, while with regard to the English stations, London Regional and London National are by far the best of the bunch, both holding their own with the more powerful of the Continental stations, which include Mühlacker, Toulouse, Rome, Turin, Florence, and Trieste.

The screening effect of the Rock has been so many times promulgated by leading radio (Continued in column 1, page 851)

Dominion and Foreign Broadcasting Intelligence

AUSTRALIA New Relay Station

(From our Australian Correspondent)

The new Government broadcasting station at Crystal Brook, South Australia, is now "on the air." This is a sister station to the Corowa broadcaster recently established, with which it shares the distinction of being the most powerful in Australia, using $7\frac{1}{2}$ kW. in the aerial. Crystal Brook is the fourth of the Government's relay stations, of which the intention was to erect twelve or sixteen—a programme which, however, has been cancelled owing to financial difficulties. The Crystal Brook station (5CB) will mainly relay the programmes of the Adelaide station 5CL.

CANADA

Receiving Set Sales

(From our Montreal Correspondent)

Sales of receiving sets in Canada during the calendar year 1931 numbered 266,122, valued at \$18,141,347 (approx. £3,668,268 at par), factory selling prices, according to a report of the Dominion Bureau of Statistics of the Department of Trade and Commerce. Compared with the figures for 1930, when 223,228 sets were sold at \$22,776,225 (approx. £4,555,245), the data for last year showed an advance in number of 28 per cent, but a decline in the sum received by the manufacturer and importer of 16 per cent.

AUSTRIA

New Time Signal

(From our Vienna Correspondent)

The Austrian stations have introduced a new time signal, which takes the following form: About forty seconds before the time signal is due the announcer says, for instance: "Es wird beim Gongschlag, 13 Uhr, 5 Minuten sein" (When the gong strikes it will be 13h. 5m.). The announcement then continues: "Es is etwa 13 Uhr, 4 Minuten, 30 Sekunden—es ist 13 Uhr, 4 Minuten, 40 Sekunden—es ist 13 Uhr, 4 Minuten, 50 Sekunden" (It is about 13h. 4m., 3os.—it is 13h. 4m., 4os.—it is 13h. 4m., 5os.). About two seconds before the striking of the gong the announcement runs: "Es war 13 Uhr, 5 Minuten" (It was 13h. 5m.") Thus the time signal lasts for more than half a minute.

May Day Celebrations
As May Day (Labour Day), which is a national holiday in Austria, falls this year on a Sunday, the Socialist processions, which total usually

the Socialist processions, which total usually over 200,000 persons, will not interfere with traffic or business, though there will be no tramcar services (as when May Day falls on a weekday) until 2 p.m. Ravag will open its programme that day with a relay, beginning at 9.25 a.m., from the Rathaus Tower, where the popular announcer, Dr. Werner Riemerschmied, will describe the scene in the square, and then the trumpeters will blow their blasts from the tower itself. Besides Labour lectures and Labour songs (especially songs by a Workers' Children's Singing School) at 9.40 a.m., there will be a programme of "Dances of Austria" at 11.40 a.m. by the Vienna Symphony Orchestra.

BELGIUM

A Broadcasting Commission

(From our Brussels Correspondent)

BRUSSELS, April 23.

During the discussions at the Chamber of Deputies on the private stations in Belgium, the Belgian Postmaster-General, M. Bovesse, decided to create a Commission for Broadcasting. The composition of that Commission

has recently been fixed, and it will hold its first meeting on April 26. The Commission has for president Baron Firmin Vanden Bosch, the eminent jurist, and the Belgian Member of the Council of the International Broadcasting Union, and among the members is M. Raymond Braillard, the President of the Technical Committee of the International Broadcasting Union (the seat of which is at Brussels) and the Technical Counsellor of the I.N.R. The Radio Commission has been constituted in order to deal with questions relative to the activity of the Belgian private stations. As the Belgian law on broadcasting does not reserve the monopoly of broadcasting to the I.N.R., a considerable number of private stations have arisen during these last three years. and now number as many as twenty-three. The Postmaster-General recently stated that more than a hundred applications for transmitting licences had been put forward. One of the first tasks of the Commission will thus be the examination of these demands and also the revision of the position regarding the existing private stations. In addition, the Commission will deal with the question of the quality and the composition of programmes of these stations, in order to prevent the repetition of the deplorable incidents that occurred a few months ago, when a Brussels private station transmitted, almost daily, objectionable references to various members of the Government, including the Postmaster-General.

DENMARK

New High-Power Transmitter for Kalundborg

The new Kalundborg high-power transmitter has now been commissioned. It is to have a power of 60 kW (Copenhagen rating). Kalundborg will thus become one of the most powerful stations in Europe. The new transmitter, which should be completed early in the New Year, will continue to use its present wavelength.

FRANCE

(From our Paris Correspondent)
The Elections

In spite of a decree of M. Poincaré in March, 1928, prohibiting broadcasts of a political nature during election periods, and in spite of announcements that such broadcasts would not be permitted from April 8 to May 8, half a dozen or more speeches have been given from various towns throughout France and broadcast by the State stations. These orations have been delivered by members of the Government, although there was one exception when M Herriot was permitted to have his speech of April 5 broadcast from Lyons. Students of French would do well to listen to these speeches, as they are delivered slowly, clearly, and in excellent French. No doubt all stations will keep open longer on the night of the elections in order to broadcast the results, but Radio-Lyons has already announced that that station will broadcast results on the nights of May 1, 2, 7, and 8 until 1 a.m.

Radio-Vitus

In order to avoid interference with Genoa, Radio-Vitus is now transmitting on a wavelength of 307 metres instead of 313 metres.

Poste Parisien

By the time that these lines appear the new station of Poste Parisien will be in full swing. In fact, as many listeners will have already noticed, a considerable number of experimental transmissions have lately been given by the new station. The official opening is fixed for Monday, April 25, when a reception will be given at the new studio at 116bis Avenue des Champs-Elysées, where the opening ceremony

will be performed by M. Rollin, Minister of Commerce and of Posts, Telegraphs, and Telephones. In the evening, at 9.30 p.m., there will be a reception, soirée artistique, and dance at the Cercle Inter-Allié, under the distinguished patronage of President Doumer. The new station, which is situated on the Plateau of Molières, near Limours, is in the valley of the Chevreuse, a beauty spot which is a favourite resort of visitors to Paris. The power will be 60 kW, and the wavelength will remain at 328.2 metres. It has been noted that there is a heterodyne during transmission caused by Grenoble (PTT) on the same wavelength. This latter station is consequently moving to the neighbourhood of 569 metres.

GERMANY

Lighter Summer Broadcasting Fare (From our Berlin Correspondent)

The summer programmes of the Berlin Funk-Stunde, which can now count upon a million listeners, were much criticised in previous years as lacking interest. This-year, everything will be done to interest and amuse summer listeners. From May, a cycle entitled." Berlin," which will interpret, in turn, the most interesting phases of Berlin life with a juxtaposition of past and present, will be of interest both to young and older listeners. It has been decided to discontinue heavy concert programmes and serious lectures on Sunday mornings. The Funk-Stunde has also given instructions to announcers that they need no longer confine themselves to stereotyped phrases, but that, on the contrary, they may, as in the beginning of German wireless, be informal in their announcements, with as personal a note as possible. It is understood, too, that Königs Wusterhausen, although regarded as Germany's "wireless university," will modify the seriousness of their programmes for the summer months. Sunday morning and evening programmes, in particular, are to be lighter in character.

Leipzig Station's New Conductor (From our Leipzig Correspondent)

Dr. Alfred Szendrei, who has for many years conducted the Wireless Symphony Orchestra, has left Leipzig, and the Central German Broadcasting Company has appointed Herr Carl Schuricht, from Wiesbaden, to be its chief conductor. Herr Schuricht, who has successfully conducted a series of public concerts under Mirag auspices in the course of the past two years, is now arranging for the next winter season ten public symphony concerts to take place in the Albert Hall at Leipzig. They are arranged by the Central German Broadcasting Company, and will be relayed by its stations. The Leipzig broadcasting authorities are planning to found a chamber music orchestra, the instruction of which will also be one of Herr Schuricht's tasks.

ITALY

Increase of Licence Fee

The licence fee payable by the owner of a receiving set in Italy has been increased from L. 75 (approx. 16s. at par) to L. 80 (18s.) per annum, or L. 84 (19s.) if paid in half-yearly instalments. The L. 5 increase is to be allocated to a special fund to be utilised for subsidising the Theatre (operas and other performances).

POLAND

Warsaw's New Interval Signal

Warsaw station has recently introduced a new interval signal consisting of the first notes of Chopin's F Major Polonaise for pianoforte.

TECHNICAL SECTION

Broadcasting House

4.—Electrical Plant and Power Supply

(Continued from page 792, April 22)

THE special requirements to be complied with at Broadcasting House in connexion with the wiring have been met as follows. The feeders from the switch room are carried to the various parts of the building in two vertical chases formed on the outside walls of the studio tower. Elaborate arrangements have been necessary to keep the main power wiring supplying the ordinary services in the building isolated from the microphone and other wiring associated with the studios and control room. To achieve this, six vertical ducts have been formed on the outside of the studio tower wall, equally spaced on the two opposite walls, two ducts being allotted for lighting and power cables, two for cables and two for miscellaneous wiring, such as loud-speaker leads, checking telephones, control telephone system, etc.

Fairways in the walls of the tower have been provided on each floor, giving access to the studios and other rooms within the tower. The distribution boxes for the lighting and power points to the offices, round the outer walls of the tower, are situated in recesses formed in the tower walls, adjacent to the power cable ducts. This method tends to make a neat and orderly arrangement of the main power leads. From these distribution boxes, the wiring is carried on to the individual lighting points in steel screwed conduit.

The wiring connecting apparatus in the broad-casting "chain" required careful planning. Circuits which carry the minute output currents from the microphones are always liable to trouble, due to induction from power circuits, and for this reason the conductors between the studio microphones and amplifiers have been run in two of the vertical ducts which are remote from those carrying power cables.

Between the listening rooms adjacent to the studios and the control room amplifiers, six conductors have been provided. The carbontype microphones require only two conductors, but for the condenser microphone, which requires an amplifier in the same box, five conductors are required-two carrying the programme output currents; one for anode H.T. supply; one for filament supply and one common negative, the sixth conductor being a These leads are in each case terminated in the listening room which is the control point

from which the various groups of microphones in a studio are switched. The cables are supported in the vertical duct by perforated steel troughs to which they are secured by brass saddles.

The cable ducts are covered by steel doors opening into the corridors on the outside of the tower walls, thus providing easy access to the ducts on each floor. This arrangement provides a neat and flexible wiring system to which extra circuits can be added with the minimum of Within the studios the wiring from the listening-rooms is carried to the various microphone points in perforated metal troughing enclosed in removable skirting. Other circuits between the studios and control room, such as those for signal buzzers, signal lights and telephone, are carried in the remaining two of the six vertical ducts.

On the sixth floor is situated a small but important group of plant—the storage batteries and motor-generator sets which supply the power for the control-room. The apparatus contained in the controlroom will be described later, but it may here be mentioned that six distinct supplies are required to energise the amplifiers and circuit switching relays. They are as follows:

r. Anode high-tension supply to all amplifiers, 300 volts, 4 ampères.
2. Filament supply to microphone

amplifiers, 6 volts, 100 ampères.

3. Filament supply to all other amplifiers, check receivers, etc., 6 volts, 200 ampères.

4. Microphone polarising battery, 8 volts, 30 ampères.
5. Relay battery, 24 volts, 40 ampères.
6. Grid negative

battery, 24 volts, 80 millianspères.

It is the policy of the B.B.C. to provide storage batteries to supply amplifiers and other equipment in the broadcast chain. This practice is not general in all countries: for instance, both on the Continent and in the United States motorgenerators or rectifiers are sometimes used to supply current direct to the amplifiers.

Although showing some advantage on the score of economy, these systems are more susceptible to interruptions due to the failure of the source of supply, or a failure of the converters themselves. The storage battery gives a supply

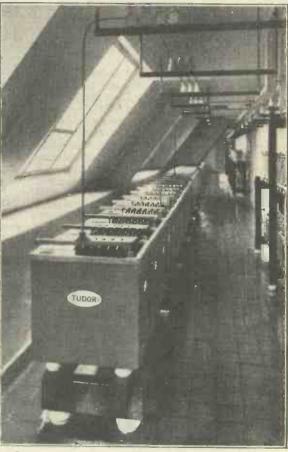
which is absolutely free from ripple and is by its nature extremely reliable. To feed the six services the following batteries were installed:

For anode high-tension supply, two 300volt, 75 ampère-hour batteries.

For microphone amplifiers, two 6-volt, 1,750 ampère-hour batteries.

For other amplifiers, check receivers, etc., two 6-volt, 2,800 ampère-hour batteries.

For microphone polarising, two 8-volt, 500 ampère-hour batteries.



Storage batteries (24-volt, 1,000 ampère-hours) for operating control room relays

For relay operation, two 24-volt, 1,000 ampère-hour batteries.

For grid negative, two 24-volt, 10 ampèrehour batteries.

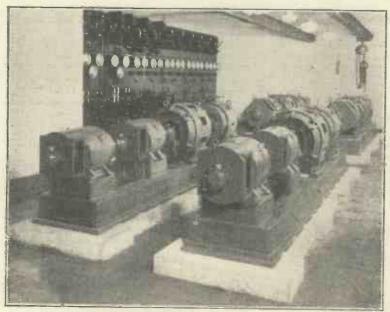
For the anode high-tension and grid negative batteries, glass box-type cells have been used, but in all other cases the containers are of the

lead-lined wood type.

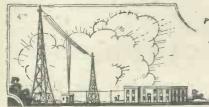
Two batteries of each type are provided, the normal arrangement being one on charge and the other on discharge. The batteries are at present not fully plated, space being left in the containers for additional plates, which will be added as necessary. The capacity of each battery will be adjusted finally to enable the full load to be carried for a working day of fourteen to fifteen hours. These batteries are housed under the Mansard roof on the Langham Place side of the building. The construction of this roof produces on the sixth floor a triangular-sectioned, well-ventilated and lighted gallery, which, although not suitable for offices or studios, is suitable for the accommodation of batteries and plant.

Four generators are required to charge the batteries. To economise in space these generators

(Continued in column 3, page 846)



Motor-generator and switch gear for control room battery charging



The Elements of Wireless

(Part 12)

By RALPH STRANGER and E. REDPATH



ALTERNATING CURRENTS

There are two kinds of electric current. One is the direct current—also called continuous current. Such a current will flow in a closed circuit under the influence of an electro-motive force provided by a cell or a dynamo. A direct current always flows in the same direction, and there is always the same number of electrons taking part in the flow. This direction is from the negative terminal of a cell or a dynamo to the positive terminal. The name direct current is generally abbreviated to D.C.

The other kind of current is the so-called alternating current which, as its name implies, alternates or changes in direction many times a second. The number of electrons which take part in the flow varies from one instant to another.

If one could see what is happening in a conductor carrying an alternating current one would notice that at a certain instant there is no current at all—i.e., there are no electrons migrating from atom to atom. An instant later a few electrons make their appearance. Another instant, and their number grows somewhat, and so, instant after instant, more and more electrons join the migrating crowd. As the number of electrons flowing past any point of the conductor at any instant represents the strength of electric current at that instant, it is possible to state that the strength of alternating current varies from instant to instant.

A moment comes, however, when a maximum of flow is reached, after which the number of electrons passing through the conductor begins to diminish in the same regular and rapid manner in which it grew. This diminution will continue until once again there are no electrons flowing at all. It should be clearly understood that all the above changes are happening with the electrons flowing in the same

Now the electrons reverse their flow. If up to the present they were flowing, say, from left to right, now they begin to flow from right to left. Once more a few electrons make their appearance, grow in numbers, reach a maximum and start to dwindle down gradually to nothing.

This is a complete cycle of events in the variation of the strength of the alternating current.

It is this period of time during which the above changes in strength and direction have taken place that is called a cycle. It is clear, therefore, that an alternating current reverses its direction once every cycle. It is also clear that during the first half-cycle the current grows from zero to a certain maximum and then falls to zero again. Dur-

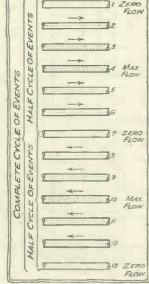


Fig. 36

ing the second half-cycle the same process of growth and decay is repeated, but in the opposite direction.

In order to make matters perfectly clear Fig. 36 is introduced. A portion of conductor is taken and a diagrammatical "photograph" of the number of electrons flowing through it has been taken at equal short intervals of time. At the instant 1, as it can be seen,

there is no current flowing at all. During the instants 2, 3, 4, 5 and 6, the electrons are flowing in the same direction. At the instant 3 there are more electrons flowing than at the instant 2, and at the instant 4 there are more electrons than at

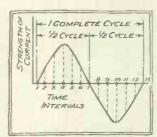


Fig. 37

there are more electrons than at instant 3. The instant 4

represents the maximum.

Once the maximum has been reached the number of migrating electrons begins to decrease from instant to instant until instant 7 is reached when there are no electrons flowing. A half-cycle has now taken place. The second halfcycle has now taken place. cycle begins from zero, and during the instant 8 there are as many electrons flowing as during the instants 2 and 6, but in the opposite direction. During the instant 9 the number of electrons passing is the same as during the instants 3 and 5. During instant 10 the maximum is reached once more and is equal to the maximum in the instant 4. Instant II is the same as instants 3, 5, and 9, and instant 12 is the same as instants 2, 6 and 8. Instant 13 denotes the end of the first cycle and the beginning of a second cycle which will follow exactly the variations of the preceding cycle.

The cycle under discussion is that of a

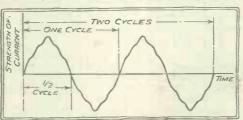


Fig 38

regularly varying alternating current, which can be represented in the orthodox manner by a curve shown in Fig. 37. This curve is obtained by dividing a horizontal line into a number of equal time intervals, representing the strength of the current at each instant by a length of a vertical line and joining the tops of all these vertical lines by a smooth curve. This shows at a glance how uniformly the current in question varies. The reason for drawing one curve above the horizontal line and the other curve below is to show the difference in the direction of flow. If Fig. 37 is compared with Fig. 36, instant by instant the meaning of the curve will become perfectly clear.

Alternating currents are, however, not always of such a regular form. The variations may be somewhat irregular, but what happens during the first half-cycle happens in precisely the same

manner during the second half-cycle, as can be seen from Fig. 38.

If the alternating current is to vary in this manner it is clear that the E.M.F. causing it must vary in the same way. In other words, the difference in the number of electrons between the two terminals of the source of such an E.M.F. is not always the same, but varies from instant to instant in the same way as the current varies. Thus, one terminal becomes rapidly richer and richer in electrons till a maximum is reached, then it starts to lose some of its electrons till it loses all (zero instant); after this—during the second half-cycle—this terminal becomes poorer and poorer in electrons till the maximum of "poverty" is reached, then it starts gaining what it has lost.

This does not necessarily mean that both the E.M.F. and the current undergo their changes at the same time. If the circuit contains nothing but resistance the E.M.F. and the current will vary simultaneously—i.e., in step, or, as it is expressed technically, they are in phase. If, however, the circuit happens to be inductive in addition to having resistance, the changes in current strength will lag behind the changes in the E.M.F., owing to the "unwillingness" of the electrons in the inductive parts of the circuit to follow rapid changes. (This will be made clear later.) If, on the other hand, in addition to the resistance of the circuit there are condensers which introduce capacity into the circuit, the current changes will be happening before the changes in the E.M.F. take place, and the current is said to be leading the E.M.F. (This will also be made clear.)

If an alternating current undergoes changes in strength and direction with a rapidity of, say, 25 cycles per second or 50 cycles per second, it is referred to as alternating current. But when there are as many as several thousand cycles per second, or millions of cycles per second, the current is called oscillating current. And this is the type of current the wireless student has to deal with in studying the behaviour of receiving circuits.

DYNAMOS

In previous articles we have discussed two sources of supply of electric current, namely, primary and secondary batteries, which may be regarded as electro-chemical methods of producing the E.M.F. essential to the flow of current in an external circuit. A third source of supply—one which involves electro-magnetic principles—remains

to be explained.

A study of the theory of electromagnetic induction will have made it clear that the movement (growth or decay) of a magnetic field induces an E.M.F. in a conductor or conductors within the influence of that field, and further, the offset may

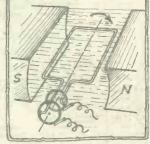


Fig. 39

that the effect may be produced by a movement of either the magnetic field or the conductor with respect to one another.

(Continued on page 846)

March, 1932

403-8 RADIO SUISSE

ROMANDE 743

Frequencies of European

Measured at the Brussels
Technical Committee of the Union
The letter T indicates wireless telegraphy transmission.

FREQUENCY FREQUENCY WAVELENGTH KILO-CYCLES. 3989 MIDLAND REG. 752 WAVELENGTH 3942 BUCHAREST METRES. 389.6 FRANKFURTO 575 LJUBLJANA 522 RADIO 770 569-3 FREIBURG 527 385-1 TOULOUSE 775 565-1 SMOLENSK 531 AUGSBURG 536 and and and or or 3807 LWOW . 788 KAISERSLAUTERN TAMPERE 378.6 MOSCOW 37.7925 550-5 BUDAPEST 545 376-4 GLASGOW 797 541-5 SUNDSVALL 372-2 HAMBURG800 532.9 MUNICH 563 -RADIO LL PARIS HEHELSINKI S= SEVYLLE 368-1 SEVILLE 815 P= PALERMO HELSINKI . F - FREDRINSSTAD 524.5 RIGA 572 364-1 BERGEN 824 363-6 ALGIERS 8255 516.4 VIENNA 581 360-1 STUTTGART-MUHLACKER 833 508-5 BRUSSELS 356-3 LONDON 842 NO.1. 590 9 ASTRAKHAN P.V.35 REGIONAL 500 8 FLORENCE 599 352-3 GRAZ 851 497-1 MOSCOW 603 R=WWWINOVGOROD 350-7 LENINGRAD855 4984 TRONDHEIM 3488 BARCELONAS WILNO 608 486.2 PRAGUE 617 3452 STRASBOURG L= LENINGRAD 869 480-2 NORTH REG. 4762 SIMFEROPOL 630 341.7 BRNO 878 472-4 LANGENBERG 635 338-2 BRUSSELS . NO.2. 887 4658 LYONS • 644 334.8 POZNAN 896 (LA DOUA.) SCHWEIZERISCHER 331.4 MILAN 905 LANDESSENDER 453-2 COM.WAVE 662 328.2 POSTE 914 450-1 ODESSA 666.5 or 16 2 9 PARISIEN GRENDBLE. 447-1 PARIS (P.T.T) BRESLAU 923 671 E= TARTU 4412 ROME 680 321.9 GOTEBORG . 435-4 STOCKHOLM DRESPEN & NAPLES 318-8 BULGARIA 941 NAPLES . 429-8 BELGRADE . 315-8 MARSEILLES 698 = E= RADIO ESP R- MOSCOW A.V.39 4243 MADRID EAJT V = RADIO VITUS PA 312-8 CRACOW 959 RADIO ESPAÑA M. MADRID GENOA . 419 BERLIN 716 309.9 CARDIFF 968 416 RABAT . 721 413-8 DUBLINO 725 307-1 ZAGREB 977 0.30: 4087 KATOWICE FFFALUN 304-3 BORDEAUX- 986 15 35 734

LAFAYETTE

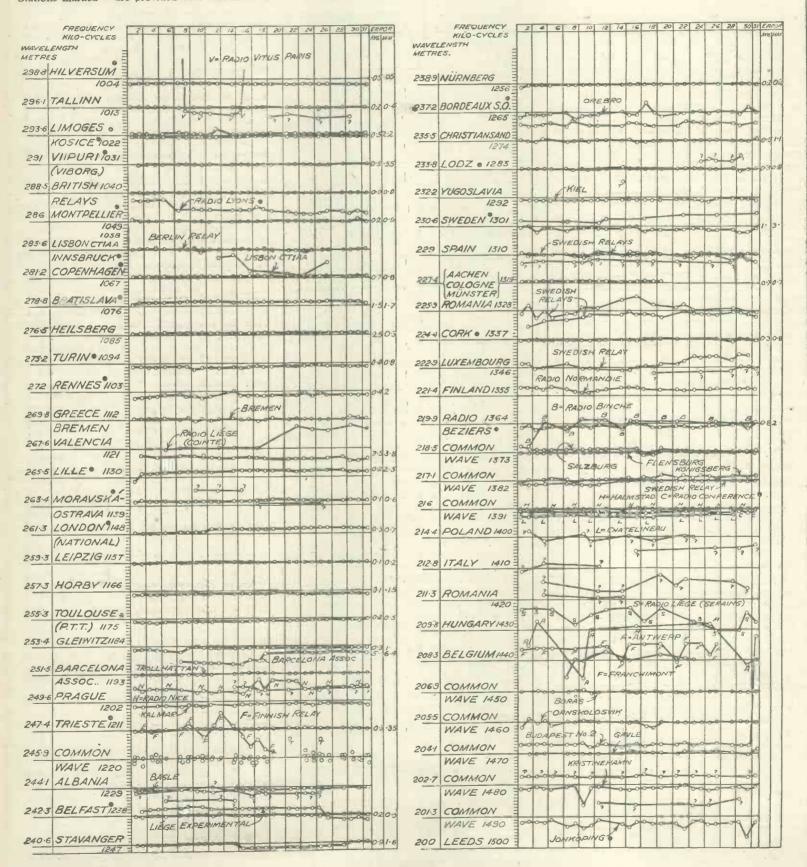
NATIONAL

301-5 NORTH 99

Broadcasting Stations

March, 1932

Laboratory of the
Internationale de Radiodiffusion
Stations marked are provided with U.I.R. wavemeter



THE ELEMENTS OF WIRELESS

(Continued from page 843)

Fig. 39 is a simple diagrammatic representation of a single turn or loop of conducting wire pivoted horizontally in an air-gap between the north and south poles of a powerful magnet, where the magnetic field is most intense, as will be remembered from the iron-filings experiment. The ends of the conductor are each connected to a flat metal ring upon which a metal arm or brush makes sliding contact, so affording continuous connexion to an external circuit when the loop is rotated upon the axis indicated by the dotted line in the drawing.

Imagine a single rotation of the loop to begin with that arm of the loop marked X at the point a (see Fig. 40), and moving in the direction indicated by the arrow. In the initial stages of its movement from a the conductor will move practically parallel with the lines of force and there will be little or no E.M.F. induced in it. Continuing the rotary movement through the point b to c, it will be seen that between a and b a number of magnetic lines of force are cut, and a still greater

number between b and c. In moving through c the maximum number of lines of force will be cut for a given amount of movement.

Continuing its revolutions, the conductor will pass



Fig. 40

through point d, cutting a gradually decreasing number of lines until at point e it is again moving parallel with the magnetic field and the induced E.M.F. will again have zero value as at a. From this point the movement of the conductor across the magnetic field is reversed, and while the magnitude of the E.M.F. will vary as the conductor passes through points f, g and h, the same as it varied when passing through points a, b, c and d, the induced E.M.F. will be in an opposite sense—in other words, the flow of current in the conductor will now be reversed.

It will be appreciated, on referring again to Fig. 40, that a similar cycle of events will occur simultaneously in the conductor Y, which forms the opposite half of the loop, and that the E.M.F. induced in it at any instant will cause a current to flow in such a direction that it will be added to that flowing in conductor X.

An electric current generator of this type is called an alternator, and the current collected from the slip-rings by means of the brushes is an alternating current. The magnet, the poles of which are represented at N and S in Fig. 39, is termed the field-magnet, and the rotating conductor (or many conductors in the case of a practical commercial alternator), is known as the armature. In the case of the simple alternator illustrated in Fig. 39, each complete revolution of the armature produces a complete cycle of changes or one alternation, and the

number of complete cycles per second is known as the frequency or periodicity of the machine. The periodicity (indicated by the symbol ∞) of alternating current in the mains of commercial supply companies varies from 50 to 80 cycles per second.

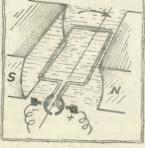


Fig. 41

Direct-Current Dynamos

The conductors—forming the armature of any electric current generator have alternating currents induced in them as they rotate in the air-gap between the poles of the field magnet. It will be seen, however, that if two metal segments take the place of the slip-rings, and are connected as indicated in Fig. 41, the connexion between each side of the loop arma-

ture and one of the two brushes is broken momentarily just at the instant when the current is about to reverse, and a connexion is then made with the opposite brush. In other words, the brush

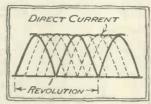


Fig. 42

marked + will always be connected to the conductor which is crossing the face of the north pole of the field magnet in the same direction, with the result that it will remain a positive pole. Similarly, the opposite brush will always be a negative pole.

The two metal segments thus form a simple current-reverser or commutator which, in the case of a commercial direct current dynamo, may have from 50 to 100 segments instead of only two, as in the simple case illustrated.

As Fig. 37 represents graphically the growth, decay and reversal of the current output from an alternator, so Fig. 42 represents the current output from the simple D.C. dynamo illustrated in Fig. 41. It will be noted that, although the current flow is now all in the one direction (i.e., no reversal occurs), it is by no means a steady current but consists of two pulsations or impulses per revolution. As the number of conductors on the armature and corresponding segments on the commutator are increased, so the interval between successive pulsations becomes less, and, apart from perhaps a slight ripple, the output of a modern commercial D.C. dynamo may be regarded as a steady direct current. Only in exceptional circum-stances, however, will the steadiness of such current be comparable to that of the current supply obtained from a battery of accumulator cells.

Field Magnets

Except in the case of very small or special types of machines, permanent magnets do not provide a magnetic field sufficiently strong for practical purposes, and electro-magnets are necessary. These consist essentially of a soft iron frame provided with poles suitably wound with insulated copper wire (termed field coils) so that when a current flows through the coils magnetic poles of correct polarity are produced, with an intense magnetic field between them.

The current required to energise the field coils could be obtained from an external battery or other source of supply, but, in commercial practice, generators are arranged to supply their own magnetising or field current, and are said to be self-exciting.

Field current for a direct-current generator is readily obtained by connecting the field coils across the commutator brushes, the coils themselves being designed to pass the required current. The field coils are thus connected in parallel, or in shunt to the armature, from which fact this type of generator is known as a shunt-wound dynamo. An alternative method is to connect the field coils in series with the armature winding, the generator then being termed a series-wound dynamo, whilst a combination of the two methods is sometimes used and results in a compound-wound dynamo.

It will, no doubt, be appreciated that field current for an alternator cannot be obtained merely by connecting the field windings to the

(Continued at foot of next column)

BROADCASTING HOUSE

(Continued from page 842)

are arranged in pairs, each pair being driven by a 3-phase, squirrel-cage, induction motor. The first pair has outputs of 10 volts, 640 ampères, and 15 volts, 80 ampères, respectively, and the second pair 450 volts, 12 ampères and 37 volts, 140 ampères. Each pair of generators is directly coupled to an induction motor which derives its supply from the 415-volt, 3-phase The generators are separately excited from an exciter mounted on the same shaft. Spare motor-generator sets have been provided, so that there are in all four sets. These sets have been designed to run at a speed of 500 r.p.m., which is a relatively slow speed for machines of this output. This speed was chosen with a view to reducing air noise and vibration, and as an additional precaution the machines are mounted on felt pads.

A switchboard has been provided in the generator-room for the control of the motor generators and batteries. From this room heavy copper busbars take the battery supplies to the control-room directly above it on the eighth floor. Since the total load on the 6-volt batteries may reach 300 ampères, it will be readily understood that great precautions have had to be taken to eliminate excessive voltage drop. For this reason the current density on all busbars and switch gear has had to be kept far below the limits permissible in ordinary commercial practice.

Two telephone systems have been installed at Broadcasting House. The first is a private branch exchange which handles all incoming and outgoing calls, with thirty lines to the Welbeck exchange. The private exchange is equipped, at the moment, to deal with about 300 internal extension lines, but adequate space has been left for further extensions.

A private automatic exchange for dealing with internal traffic has also been installed. This equipment has a capacity of 200 extensions, but provision has been made to increase this number to 300. The usual batteries and charging motor-generators have been provided for the supply of power to this equipment.

The wiring of the extensions on both of these telephone systems is taken to offices along a cable duct fixed to the office walls along the corridors, and is run from floor to floor by means of two vertical cable ducts one on each side of the building. These cable runs are used also to carry the wiring connected with the inter-office buzzer system and fire alarms.

(To be continued)

brushes on the slip-rings, as this would simply result in continual reversal of the magnetic field between the pole-pieces. In the case of a self-exciting alternator, therefore, a separate commutator is provided, connected either to a separate winding of the armature, or to suitable tapping points on the main armature winding, and magnetising current is obtained from two brushes fitted to this commutator.

The supply of field current is relatively simple when the machine is actually generating current in the armature windings, but, the question may occur . . . how is the initial current generated without an electro-magnetic field? The answer is that once the magnet frame and pole-pieces have been thoroughly magnetised, there is always sufficient residual magnetism available to cause a weak current to be generated in the armature. This weak current then flows through the field coils, increasing the strength of the magnetic field, and a stronger current is then produced in the armature windings which still further increases the magnetic field until it is built up to full working strength and the dynamo is generating ample current to provide field current and to meet external demands.

SHORT-WAVE SECTION

Short-Wave Troubles

Practical Notes regarding the design and operation of Short-Wave Receivers

ROBABLY the most elusive and annoying of the troubles with which one meets when in the "novice" stage is that known as "threshold how!" The name is not quite self-explanatory, and a little elucidation is neces-When a short-wave receiver is brought up slowly from a non-oscillating state towards the point at which reaction begins one of three effects may take place.

The receiver may begin to oscillate smoothly, with an almost imperceptible "hiss"; it may suddenly start with a devastating "plop"; or it may give a loud musical howl or hoot. The first condition is, of course, very desirable, since there is no difficulty in keeping the set in its most sensitive condition—either just short of the oscillation point, for telephony reception, or just "ahead" of it, for C.W. work.

The second condition, generally described as "ploppy reaction" and more correctly termed "overlap," is definitely undesirable, but since this overlap is by no means confined to shortwave receivers it is not proposed to deal with it here. The third condition-that of "threshold howl "-is, unfortunately, only too common, and it is so fatal to efficient operation of a short-wave receiver that a few practical remarks on the subject may prove of use to readers who have been worried by this effect. It is, too, a fault only met with in short-wave work.

A study of the causes has not yielded very much definite information about them, except that they are many and varied. Accordingly there are six or seven different remedies, any one of which may prove to be a complete cure. At the same time a troublesome case may necessitate the putting into action of several of them before the trouble is entirely done away with. One point on which even experts appear to agree lis that the effect tends to become more severe as the total inductance in the detector anode circuit is increased. This is substantiated by the fact that a good L.F.

transformer. with a high-impedance primary winding, almost invariably leads to trouble of this kind unless

various precautions are taken. Common-sense reasoning will suggest the following expedients: Keep the number of turns in the reaction coil down to the absolute minimum with which oscillation may be maintained; use a high-frequency choke wound for short-wave work, and not a "broadcast-band" choke; and, in severe cases, substitute a noninductive resistance for the latter component. Particularly in the case where an expensive L.F. transformer is in use it will be found that the use of a resistance with a value of 10,000 or 15,000 ohms, wired in the position that would normally be occupied by the H.F. choke, provides a partial or complete cure.

Another method of eliminating "threshold howl" is to connect a high resistance across the L.F. transformer secondary. This is certainly

effective, but it works at the expense of amplification, and nothing lower than .5 megohm should be used if efficacy is aimed at. Other hints that may prove useful are as follows:

1. Use as small a value of grid-condenser (for the detector) as is consistent with efficient working.

2. Vary the value of the grid-leak. This must be done experimentally, and no definite rule can be given.

3. Try other valves, even if they are of the same make and type.

4. Reduce the detector filament voltage slightly. 5. Connect a fixed condenser of about 0.0005 mfd. from the anode of the first L.F. valve to earth.

6. Use "choke-filter" output.

7. Provide efficient de-coupling for the detector.

It will be noted that the points at which the " cure" may be applied range from the detector input circuit to the L.F. output circuit. This in itself shows that threshold howl may be due to a variety of causes. A really troublesome set may not become stable until all the above suggestions have been put into action. Fortunately, however, such cases are not often encountered. The writer does not profess to be able to explain the reason for the efficacy of some of the suggested cures, but one cannot



The new 15kW transmitter for the Berlin ultra-short-wave station

argue with the data collected as a result of actual experiments.

In conclusion it may be well to remind readers at "threshold how!" should not be confused with the audible howl that occurs when most receivers are made to oscillate very strongly. The effect with which we are concerned ceases after one has passed over the "threshold" of L. H. T. oscillation.

2—18.25 F.AQ (30.43) LS R8/FFS/X. Spanish music. 2—19.00 Zeesen (31.38 m.) LS R7/FS/N. Relay from Vienna. 3—19.55 Robat (32.26 m.) LS R7/N/N. Concert. 5—Skamleback (31.51 m.) LS R6/FS/X. Copenhagen

Skamledack (31-5) m.) LS R₅/FS/N. Concert.

-19.57 W2XAD (19.56 m.) LS R₅/FS/N. Concert.

-19.55 Rome relay (42.3 m. approx.) LS R₆/FR/N. Rome programme.

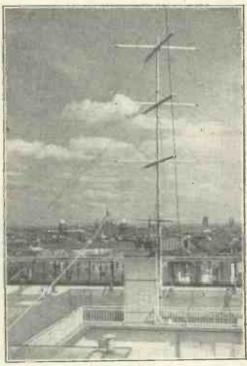
-20.55 CT1AA (31.25 m.) LS R₇/N/N. Testing. The above using inside aerial. Receiver 0—y—2 mains.

Yours faithfully, D. C. A. Manchester.

Berlin's Ultra-Short-Wave Transmitter

HE transmitter has just been completed and will shortly leave the test bench at the Telefunken works to be erected either at Witzleben, or in the centre of the town on the Europahaus. The tests deciding the definite site will be completed in a few days

The transmitter can be tuned to any wave between 6 and 8 metres without changing coils or condensers. The normal wavelength is 7 metres or 43,000 kc/s. Crystal control is provided. the crystal oscillating at a frequency corresponding to 56 metres. The ultimate wavelength is achieved by increasing the frequency in seven stages. The power in the aerial will be 15 kW., which is very considerable for the extremely short wavelength. Previous transmitters were never able to attain more than 11 kW. in the aerial.



An experimental ultra-short-wave aerial erected upon the Europahaus, Berlin

Special valves have been developed. The two which work in " push-pull " in the output stage each have a power rating of 60 kW. Frequency bands up to 300,000 can be used to modulate the transmitter without distortion, this being necessary for television. The German Post Office will use the transmitter extensively broadcasting and television tests. Telefunken firm have placed the transmitter at the disposal of the Reichspost free of charge.

SHORT-WAVE REPORTS

(Continued from page 848.)

To the Editor of WORLD-RADIO SIR,-I beg to submit the following report of short-wave reception.

Mar. 26—17.57 EAQ (30.43 m.) LS R7/FS/N. Gram. 26—20.00 Moscow (50 m.) LS R8/FR/N. English Talk. 7—01.35 W3XAL (49.18 m.) LS R5/FFR/N. Dance

music, etc. 27-02.30 W8XK (48.86 m.) LS R5/FFR/N. Dance

music, etc. 27—02.40 VE9DR (49.96 m.) LS R6/FR/N. Dance

29—15.10 PLE (31.86 m.) LS R6/FR/N. Concert and call.
29—16.45 VOR2 (49.4 m.) LS R5/N/N. Music and call.

30-16.45 2RO (25.4 m.) LS R8/N/N. Variety

1-22.30 CTIAA (42.9 m.) LS R6/N/N. Gram. The above were received using an outside aerial.

(Continued at foot of previous column)

Short-Wave Reports

To the Editor of WORLD-RADIO

SIR,—I enclose my short-wave report for Sunday. April 10. The set used is a six-years-old batteryoperated 0—v—2. In addition, I should like to say that I have listened to W2XAD and Bandoeng for over five years, but have never heard the former transmission better than it was on April 11 at 18.15 and the following half-hour, nor the latter (PLV, 31.86 m.) better than on April 12, when full loud-speaker volume, with little fading, was obtainable throughout the two-hour programme.

14.15 W2XAD (19.56 m.) R3. Rapid fading, 14.30 Moscow (25.00 m.) R6. Steady.
14.30 VK2ME (31.28 m.) R2. Steady, 14.45 Moscow (45.38 m.) R6. Slight fading, 14.45 Moscow (45.38 m.) R6. Slight fading, 15.00 Moscow (50.00 m.) R4.
16.15 VK2ME (31.28 m.) only R1.
19.00 ? (23 m. approx.) R8. A New York station relaying N.B.C. programme to Switzerland, 19.00 W2XAD (19.56 m.) R5. Fading, 19.30 Moscow (25.00 m.) R9. Fading absent, 19.30 W8XK (25.25 m.) R4. Moderate fading, 20.30 Rabat (32.26 m.) R6. Moderate fading, 20.30 W2XAF (31.48 m.) R5... Rigid fading, 21.30 Rabat (32.26 m.) R9. Steady. Closed 22.00. 131 43 22.00 W1XAZ (31.35 m.) R4. Moderate fading. 43
22.00 Reme (43 m. approx.) R9. Almost steady. 107
22.45 W1XAL (49.18 m.) R8. Strong fading. 128
23.15 LSX, Buenos Ayres (30 m. approx. certainly above 28.98 m.) R7. Calling station WOK. 30
23.15 Moscow (50.00 m.) R9. No fading. 131
23.30 W3XAL (49.18 m.) R9. Moderate fading. 128
All the stations listed above were identified by

call-signs, and were tuned on the loud-speaker. use one set of coils for the range 19-29 metres, and another set for 29-60 metres. There was a wonderful improvement on all waves under 50 metres on April 10, and this has so far been maintained

Yours faithfully,

Nelson, Lancs.

To the Editor of WORLD-RADIO SIR,—The following is my reception report for the period April 11 to 20:—

April 11— 7.0 p.m. Zeesen (31.38 m.) Tel. R8/FS/X.

"11— 7.15 ", W2XAD (19.56 m.) Tel. R5/FS/N.

Call. Call.
Zeesen (31.38 m.) Tel. R9/N/N,
Music.
OXY (31.51 m.) Tel. R9/SS/N, Talk.
CT1AA (42.9 m.) LS R8/FS/N. Call.
W3XAL (49.18 m.) Tel. R8/FS/N.
Call.
W3XAL (49.5m.) Tel. R6/FFS/N.
Call. 14-7.30 ,, 16-11.30 VE₉DR (49.96 m.) Tel. 'R4/FFS/N. VEODR (40.96 m.) Tel. 'R4/FFS/N. Call.

(The last three stations all broadcast Amos and Andy at 12 midnight.)

Bandoeng (31.86 m.) Tel. R8/FFS/N.

Holland v. Belgium Football Match.
Rabat (32.26 m.) LS R8/N/N. Music.

Pontoise (25.2 m.) Tel. R4/FFS/N.

Talk.

W8XK (25.25 m.) Tel. R4/FFS/N.

KDKA programme. 17- 3.15 ,,

, W8AK (25.25 m.) Tel. R4/FFFS/N. KDKA programme.

7LO (49.5 m.) Tel. R4/FS/N. Talk. W2XAF (31.48 m.) Tel. R6/FFS/X. Call and "Skippy."

W3XAL (49.18 m.) Tel. R4/FS/X. Call.

20—7.45 , 7LO (49.5 m.) Tel. R3/FS/XX. Talk. W2XAF (31.48 m.) Tel. R6/FS/N. "Skippy" and Call.

W2XAF (31.48 m.) Tel. R6/FS/N. "Skippy" and Call.

Rome (42.9 m.) Moscow (42.9 m.) 17- 9.20 ,,

Rome (42.9 m.), Moscow (50 m.) and Vatican (50.26 m.) are not listed above, but were heard during this period on their respective schedules at LS R7-9 strength. Receiver: World-Radio adaptor plus SG-v-1 receiver. Outdoor aerial, 30ft. long.

Yours faithfully, S. T. H. London, S.E. 16.

To the Editor of World-Radio

Sir,—The following is a report of short-wave reception between April 8 and April 16:—

April 8—22.03 CT1AA (42.9 m.) LS R5/FS/X. Call and music.

"8—22.15 VE9DR (49.96 m.) Tel. R5/FFR/N. Talk.
"9—19.10 Vatican (50.26 m.) LS R9/FR/N. Talk.
"9—20.10 Moscow (50.00 m.) Tel. R6/FR/N. Talk.
"9—22.00 Barcelona EAJ25 (50 m.) Tel. R7/N/N.
Talk.

"0—22.80 VEDDR (49.96 m.) Tel. R7/N/N. Talk.
9-22.50 VE9DR (49.96 m.) Tel. RS/FR/N. Talk.
13-19.11 Rome relay (43 m.) LS Rs/N/X. Singing.
13-19.20 Zeesen (31.38 m.) Tel. Rs/N/N. Music.
15-15.30 F3iCD Saigon (49.5 m.) Tel. R3/FFS/X.

15—19.00Vatican (50.26 m.) LS R8/FR/N. Call and Talk 15—19.04 Moscow (50 m.) LS R7/FS/N. Talk in German. 15—19.08 Rome relay (43 m.) LS R8/N/N. Call and talk.

My receiver is a 0-v-2 with outdoor aerial.
Yours faithfully,

Lee-on-Solent, Hants. (Continued at foot of column 3, page 847)

Below 100 Metres

By "MICROM"

FTER having apologised to readers for appearing out of my turn, in order to deputise for my colleague "Vernier," who, unfortunately, is unable to contribute this week, I will begin by correcting an error in last week's contribution. The error referred to concerns Rome's new wavelength, given last week as 42.7 metres. Subsequent measurement shows that this very powerful station is now working on almost exactly 43 metres, and not on 42. metres, as given, which wavelength would, of course, place it in the 40-metre band allotted to amateur transmitters (41.1 to 42.9 metres):

It is interesting to note, in view of the change of Rome from 25 to 43 metres, that during the last few days, in the afternoon and evening, the 25-metre Moscow and Paris stations have been good loud speaker signals, and organ music from Blackpool was received at fair loud speaker strength in the North, via G5SW, on Friday evening, April 22.

The quality of the 45.38 metre Moscow station REN seems to have improved considerably, and an excellent pianoforte recital was heard after 7 p.m. on Friday.

W2XAD has been audible on most evenings and is still keeping to his I to 3 p.m. E.S.T. schedule—i.e. 7 to 9 p.m. B.S.T. Reception has, however, been poor generally, with the exception of Saturday, April 23, when he was 100 per cent. intelligible, though noisy, at 7 p.m.

Conditions were very good below 20 metres on Saturday afternoon, and some exceedingly powerful carriers (telephones) were heard in the region of 14 metres. Later, on Saturday evening, at 9 p.m., what appeared to be a special George's Day programme was heard from Nairobi, concluding with the playing of "Land of Hope and Glory"; musical items being heard at good loud speaker strength in spite of static, but the speech was low-toned and indistinct, though obviously English.

The new aerial at Zeesen, designed to give a shallow angle of maximum radiation in the vertical plane, does not appear to have had any effect on the reception of that station in this country, and it is still heard with much the usual strength here. An excellent relay of dance music (recorded) from the Berlin studios was heard via this station at 2 p.m. on Saturday, April 23. Slow fading occurred, but little distortion was present even during fade minimums, and the quality would do justice to the best receiver.

Sydney could not be heard on his 31.28 metre at 7.45 a.m. (B.S.T.), Sunday morning, April 24, but could be heard fairly well on his "telephone " wave of 28.8 metres (10,420 kc/s) calling London.

Skamlebæk, Copenhagen, was heard at the rather unusual time of 11 a.m. on Sunday morning, but was a weak, quickly-fading signal. At the same time, however, on 50.26 metres, the Vatican could be heard at full loud speaker strength, a very steady and clear signal; no fading at all.

Rabat was well heard on 23.85 metres, and closed down at 3 p.m. (B.S.T.). He was a clear, steady signal, though not so well received as he used to be in the south-east of England; an announcement regarding a transmission to take place this evening on 32.26 metres at 9 p.m. (Rabat time) was made just prior to closing down.

On the whole, European conditions this week have been fairly good, but long-distance recep-tion, especially from the U.S., remains disappointing.

SHORT-WAVE STATIONS

ORT-WAVE STATIONS
The times quoted are reduced to B.S.T.
Kc/s
4273—Khabarovsk (U.S.S.R.), 20 kW. 10—1 p.m.
4800—Long Island, W2XV. FRI., 12—2.30 a.m.
5172—Prague. TUES. and FRI., 8.30—10.30 p.m.
5502—Brooklyn (N.Y.) W2XBH. Relays WCGU.
5857—Chapultepec (Mexico) XDA, 20 kW. Daily
4—5 p.m.
5969—Station du Vatican (Italy) HVJ. 10 kW.
D'ly 9.0—9.15 p.m. SUN. 12—12.30p.m.also.
6000—Barcelona Radio Club EAJ25, SAT.9—10p.m.
6000—Moscow (Relays Moscow T.U.) 9 p.m.
6000—Bucharest (Romania), 0.3 kW.
6005—Drummondville, Quebec VEoDR. 4 kW.
6005—Drummondville, Quebec VEoDR. 4 kW.
6005—Drummondville, Quebec VEoDR. 4 kW.
6005—Cregueigalpa (Honduras), HRB. 2.5 kW.
6005—Chicago (III.) W9XF, 5 kW. Relays WENR.
SUN., 5—7 a.m., 1—5.30 p.m., 8.30—11 p.m.,
and 1—6 a.m. (MON.). Weekdays, 3.15—
4.45 p.m., 8.30 p.m.,—12 m'nt and (ex.SAT.)
1.30—6 a.m.
6050—Halifax, N.S. Relays CHNS.
6060—Nairobi (Kenya), 7LO.
6060—Philadelphia (Pa.) W3XAU, 0.5 kW. Relays WCAU. Daily 2—9 p.m. Thurs. and
FRI., 2 p.m.—6 a.m.
6069—Vancouver (B.C.) VEOCS.
6072—Johannesburg (S.Africa), D'ly4.30—9.30 p.m.
6072—UOR2, Vienna Experimental.
6080—Chicago (III.) W0XAAA, 0.5 kW. Relays
WCFL. Daily 2—5 a.m.
6095—Bowmanville (Canada) VEOGW, 0.028 kW.
Weekdays, 11.45 a.m.—3 p.m. and 8 p.m.
—3 a.m. SUNDAYS, 5.30 p.m., and 8 p.m.
—3 a.m. SUNDAYS, 5.30 p.m., and 8 p.m.
—4.15 a.m.
6116—Saigon (French Indo-China) F3ICD, 12kW. 70.2 62.5 58 54.52 51.22 50.26

49.96 49.83

49.59 49.5 49.5 49.5

49.43 49.4

49.34 49.22

49.24. 6080—Chicago (Ill.) Waxara, 0.5 am.
WCEL. Daily 2—5 a.m.
49.18 6100—Summarville (Canada) VEGGW, 0.028 kW. Weekdays, 11.45 a.m.—3 p.m. and 8 p.m.
49.05 6116—San Markey, 11.45 a.m.—3 p.m. and 8 p.m.
49.05 6116—San Markey, 11.45 a.m.—10.10 p.m. day. W. Daily 1 p.m.—4.45 p.m.
49.05 6116—San Markey WARC, Dy 1 p.m.—5 a.m. ext. day. Daily 1 p.m.—4.45 p.m.
48.85 6140—Pittsburgh East (W8XK). Relays KDKA. WED, and SAT., 10 p.m.—5 a.m. ext. day. WED, and SAT., 10 p.m.—5 a.m.
48.85 6140—Pittsburgh East (W8XK). Relays KDKA. WED, and SAT., 10 p.m.—5 a.m.
48.85 6167—Mexico Giv Air.
48.65 6167—Mexico Giv Air.
48.66 6167—Constantine (Algeria) 8kR, 0.2 kW. Mon.
48.67 617—Mexico Giv Air.
48.67 6187—Mexico Giv Air.
48.67 6187—Mexico Giv Air.
48.68 619 p.m. 40 p.m. 40 p.m.
49.69 619—Lisbon, Cl'1AA, 2 kW. Fill. 1 p.m.
41.67 1945—Singapore VS1AB, SUN. Med. 3.30—5 p.m.
41.67 1945—Singapore VS1AB, SUN. Med. 3.30—5 p.m.
41.67 1945—Singapore VS1AB, SUN. Med. 3.30—6 p.m.
41.68 1945—Pitted Giv Air.
41.71 1945—Singapore VS1AB, SUN. Med. 3.30—6 p.m.
41.69 1945—Pitted Giv Air.
41.71 1945—Singapore VS1AB, Sun. Med. 3.30—6 p.m.
41.60

FRENCH

(Supplementary Notes in connexion with the French Talk, Tuesday, April 26)

(A) De certains adverbes français (Suite).

VOUT est vraiment un adjectif, adjectif qualificatif qui signifie entier, et adjectif collectif, ou si l'on préfère, adjectif numéral indéfini.

Quand il est adjectif qualificatif il ne s'emploie en principe qu'au singulier: toute la journée, tout le monde, tout mon espoir et toute ma vie, etc.

Dans son sens collectif il a d'abord été employé uniquement au pluricl, mais plus tard il a pris un singulier: de toutes parts, de tous côtés, à toute heure, en tout cas, etc.

Mais tout, adjectif qualificatif employé comme épithète, peut devenir apposition en se mettant après le verbe, de sorte qu'au lieu de dire toute la maison est brûlée on a pu dire la maison est toute brûlée, etc. . . En se déplaçant ainsi il est bien évident que l'adjectif ne change ni de nature ni de sens. Peu à peu, cependant, quand tout, par suite de ce déplacement, s'est trouvé devant un adjectif, un participe, un adverbe, etc., on l'a pris pour un adverbe parce qu'il occupait la position qu'occupe généralement l'adverbe dans la proposition; et la première conséquence de cette confusion a été qu'au lieu de prendre tout dans son sens véritable d'entier, on l'a pris dans le sens de tout à fait'; s'étant ainsi assimilé à un adverbe, il est devenu invariable dans certains cas: elle est tout étonnée, la nation tout entière, la petite fille était tout yeux et tout oreilles, etc. .

La deuxième conséquence a été que tout, devenu adverbe, s'est employé avec un pluriel: ils sont tout honteux, les enfants sont tout seuls, nous sommes tout converts de confusion, elles

sont tout en larmes, etc.

Mais autrefois ce tout variait, parce qu'il n'était pas reconnu comme adverbe; et, malgré les grammairiens, on a continué à dire: une femme toute petite, des brioches toutes chaudes, toutes riches qu'elles sont, etc.. De sorte que nous avons, aujourd'hui, cette exception bizarre: tout, adverbe, s'accorde en genre et en nombre devant les adjectifs et participes féminins commençant par une consonne ou une h aspirée. En ancien français il y avait là une syllabe de plus; et les grammairiens, ne pouvant rien sur ce qui est une question d'oreille, ont été obligés d'admettre l'exception que nous venons de signaler. Il en est résulté qu'au féminin pluriel nous ne pouvons plus distinguer les deux sens de tout : la phrase, ces fleurs sont toutes fraîches, a deux sens: (a) ces fleurs sont tout à fait fraîches.

(b) Toutes ces fleurs (sans exception) sont

fraîches.

Au fond, cela n'a guère d'importance, parce qu'on peut toujours arranger la phrase pour éviter l'équivoque.

(B) 1. Le fait est que le dimanche.

(Lettres de mon Moulin, p. 8, 1. 4):

Le t final ne se prononce pas en français après ai : Ex. parfait, lait, refait, défait, etc. .

Il n'y a pas d'exceptions à cette règle, sauf une tendance très marquée à prononcer le t du substantif fait au singulier: Ex. au fait, en fait, voie de fait, par le fait, c'est un fait, voici le fait, être pris sur le fait, c'est le fait d'un méchant homme, etc. .

Au pluriel le t ne se prononce pas. Il ne se prononce pas, non plus, dans: tout à fait,

en fait de, fait divers.

2. . . n'osait plus venir s'asseoir sur le banc d'œuvre (Lettres de mon Moulin, p. 8, 1. 8).

Dans l'église paroissiale le banc d'œuvre est placé en face de la chaire, et il est réservé aux marguilliers. Les marguilliers, ou fabriciens, constituent le conseil de fabrique. C'est la "fabrique" qui est chargée d'administrer les biens et revenus de la paroisse. Maître Cornille, qui était un des notables du pays, était membre du conseil de fabrique et avait sa place au banc d'œuvre.

FOREIGN LANGUAGES SECTION

. les ailes de son moulin allaient toujours leur train (Lettres de mon Moulin, p. 8, 1. 13). Remarquez les expressions suivantes contenant le mot train :

(a) Aller son train=to go on as usual, to jog

(b) au train dont il y va=at the rate he is going.

(c) être en train de . . .=to be occupied with . . ., in the act of. .

(d) être en train=to be in high spirits. (e) je ne suis pas en train ce soir=I do not feel up to the mark to-night.

(f) être dans le train=to be up-to-date, fond of modern ideas and ways.

(g) aller bon (grand) train=to rattle along,

to drive hard, to go the pace. (h) mener grand train=to live like a lord,

in grand style. (i) à fond de train=at full speed.

(j) mettre une offaire en train=to set a thing

(k) faire du train=to kick up a row.

(C) [Translation of Exercise 133, from Intermediate Exercises in French Gramınar and

Composition, Harrap and Co.].

Pendant la nuit, tenu éveillé par (ne pouvant dormir à cause de) la douleur que lui causait sa blessure, il entendit son cheval hennir, parmi les autres chevaux qui étaient entravés autour des tentes. Il reconnut son hennissement, et ne pouvant résister au désir de parler encore une fois au compagnon de sa vie, il se traîna péniblement sur le sol à l'aide de ses mains et de ses genoux (en s'aidant de . . .), et parvint jusqu'à l'endroit où se trouvait son

coursier.
"Pauvre ami," lui dit-il, "quel sort te sera réservé (quel sera ton sort) parmi les Turcs! Tu seras emprisonné (enfermé) dans les écuries d'un aga ou d'un pacha. Les femmes et les enfants ne viendront plus t'apporter du lait de chamelle ou de l'orge dans le creux de leurs mains. Tu ne courras plus à travers le désert, libre comme le vent d'Egypte. Jamais plus tu ne fendras de ton poitrail les eaux du Jourdain, pour rafraîchir tes flancs brûlants, aussi blancs que (blancs comme) l'écume du fleuve. Si je suis esclave, toi, au moins, tu seras libre.

E. M. STÉPHAN.

GERMAN

Compound Verbs-(XIX)

(A) Compound Verbs with Nouns (concluded)

THERE are a few more verbs compounded with nouns which are defective (not regularly used in all tenses) or uncertain about their being separable or inseparable :-

Beside hohnsprechen (see p. 747) hohnlachen and hohnlächeln + Dative (to sneer at) are not often used except in the Infinitive (also used as noun) and in the Present Participle, e.g., Sie haben gut hohnlachen or hohnlächeln (It-is all very well for you to sneer).-Hohnlächelnd sah er mich an (He Jooked at me with a sneer on his face). Sein Hohnlachen macht mich wütend (His sneering makes me furious). If they are used as finite verbs they occur as separable or inseparable: Er hohnlacht allem or über alles.-Sein Betragen lacht allem anstand hohn (His behaviour is a mockery on all decent conduct). Schweifwedeln means "mit dem Schweif wedeln (to wag one's tail), it is used figuratively for " to fawn," and is inseparable, e.g., Er schweifwedelte (hat geschweifwedelt), bis er seinen Zweck erreicht hatte (until he got what he wanted). Similarly, fuchsschwänzeln (like a sly fox). Willfahren means "nach dem Willen fahren (to act in compliance with someone's will, to accede to, comply with, grant), e.g., Man hat

ARE YOU ANXIOUS **ABOUT THE FUTURE?**

What is going to happen when you are 55 years of age? Will you still have your job? Will you still be able to do the work? Or will you have to face such a reduction in your standard of living that all the zest will be taken out of life? Also, what about your family if you do not live to that age?

NOW LOOK ON THIS PICTURE! AND

55 years of age! The completing year of your arrangement with the Sun Life of Canada! Which will you have—a cheque for £3,280 or a guaranteed pension of £275 for the rest of your life?

Make it come true. You can! And meanwhile your family has not run the risk of being left unprovided for; if anything happens to you they will receive £2,400 plus accumulated bonuses.

FILL IN THE ENQUIRY FORM YOU WOULD LIKE

> £3,280 AT AGE 55

OR A PENSION OF

FOR AS LONG AS YOU LIVE

The above figures are based on the Company's bonus record of the past 20 years—a period covering the Great War and part of present depression.

The Plan is available for other ages and other amounts. Assets exceed £128,000,000.

To H. O. LEACH, General Manager, SUN LIFE ASSURANCE CO. OF CANADA, (Incorporated in Canada in 1865 as a Limited Company.)							
111, Sun of Canada House, Gockspur St., Trafalgar Sq., London, S.W.1.							
Assuming I can save and deposit fper							
please send me—without obligation on my part—full particulars of your Pension-Protection Plan showing what income or cash sum will be available for me. NAME (Mr., Mrs., or Miss)							
ADDRESS							
ADDRESS							
OCCUPATION Exact Date of Birth							
W.R. 29/4/32.							

ihm auch in dieser Angelegenheit wieder gewillfahrt (His request has also in this matter once more been complied with). It is inseparable, but the Past Participle is gewillfahrt or willfahrt.

Maulaffen is not often used, one says instead, Maulaffen feil haben (to stand about gaping with open mouth). If used, it is inseparable. Cp. der Maulaffe (jackanapes, jackass), die Maulafferei (idle lounging about).

2. The determinative word is an adjective.

The only adjective that can form inseparable compound verbs is voll, e.g., vollenden, etc. (see Article XVI). Note also: frohlocken (to exult, shout for joy), which reminds one of "to frolick" and rechtfertigen (to vindicate), also weissagen (to prophesy) der Weissager (prophet). But a fairly large number of adjectives form separable verbs, e.g.:

feil (for sale): feilhaben (to be ready to sell): Er hatte Austern feil.—Feilbieten (to offer for sale): Sie bieten allerlei alte Sachen feil. Feilhalten (to have for sale): Sie halten alte Kleider feil.-Sie stehen umher und halten Maulaffen feil (They loaf about and gape).

fest (fast, firm): festbinden (to tie up), festhalten (to hold tight), festmachen (to fasten). frei (free): freigeben (to set free), freihaben (to have a holiday), freisprechen (to acquit). gering (slight, of little value): geringachten

(to think little of), geringschätzen (to disdain). gleich (equal): sich gleichbleiben (to be all the same), gleichmachen (to equalise).

gross (big): grosssprechen (to boast), grosstun (to give oneself airs), grossziehen (to rear).

gut (good): gutheissen (to approve), gutmachen (to make good, compensate).

hoch (high): hochachten (to respect highly), hochhalten (to hold up, revere), hochschätzen (to value highly).

irr (e) (astray) : irreführen (to mislead), irregehen (to err, stray), irrereden (to talk insanely).

los (loose, free): losbinden (to unfasten), loslassen (to let go), losgehen (to get looseto start).

schön (beautiful, fine): schönfärben (to describe in high colours), schöntun (to be affected). tot (dead): totschlagen (to kill), totschiessen (to shoot dead), sich totschweigen (to keep dead silence).

wahr (true): wahrsagen (originally to speak the truth, now to prophesy). Also used as an inseparable verb. But wahrnehmen (to observe) is different, Cp. English, to be aware.

weh (woe, sore, painful): einem wehtun (to hurt someone), wehklagen (to lament).

weis (wise): einem etwas weismachen (to tell one a fib).

wohl (adv., well, good): wohltun (to do good), einem wohlwollen (to wish a person well). "Wohlzutun und mitzuteilen vergesset nicht."

B.—Inseparable Prefixes.

It will be most helpful to get at least a general idea of the force of the meaningless-looking prefixes—be, ge, er, ver, zer, ent, emp, which form hundreds and hundreds of inseparable

verbs and other words.

The prefix be corresponds to the preposition bei (near), and denotes proximity, hence providing or furnishing with, e.g., Wasser (water), bewässern (to irrigate); wachen (to watch), bewachen (to guard): Der Hund bewacht das Haus. But the main function of be is to make verbs transitive, e.g., decken (to cover), bedecken (to cover over): Der Schnee bedeckt die Erde.-Denken (to think), bedenken (to consider, ponder over): Bedenken Sie es !- gleiten (to glide), begleiten (to accompany): ich begleite ihn. Stellen (to put); bestellen (to order): Er bestellte ein Dutzend Austern.-Greifen (to grip), begreifen (to comprehend): Peter begreift das nicht |--When be is joined to an adjective it denotes "causing to ' e.g., ruhig (quiet), beruhigen (to quiet): Beruhigen Sie ihn!-frei (free), befreien (to liberate).—Be also conveys the idea of letting the

action go all over, e.g., bauen (to build), bebauen (to cover with buildings)—setzen (to set) besetzen (to occupy): Der Platz ist besetzt.

The prefix ge must be cognate with Latin cum (our con in concur=(to run together) as in German Gewissen (conscience). The most common force of ge in German verbs is that of duration, perfection, completion and repetition, e.g., denken (to think), gedenken (to keep thinking of): Gedenkt der Toten !- langen (to reach out); gelangen (to get to): Er gelangt zum Ziel!

The prefix er for older ur in Ursprung (origin) denotes origin or commencement. As English "a" in arise, awaken. It generally points to direction of the action and hence to success, e.g., scheinen (to shine), erscheinen (to appear): Die Sonne scheint.—Die Sonne erscheint.— Klettern (to climb), erklettern (to reach by climbing): Sie erklettern den Berg.-reichen (to reach out), erreichen (to attain): Sie erreichen ihr Ziel!—"er" forms many verbs from adjectives: warm, erwärmen (to get or make warm); klar (clear), erklären (to make clear); kalt: erkalten (to get cold).

The prefix ver (cognate with for in forget) is most evasive in its force, but it conveys "carried on by a substitute" in vertreten (from treten, to tread): Sie vertreten uns (they act for us)-or disappearance or destruction in vergehen (to perish), verblühen (to fade), verfaulen (to decay)-or wrong direction or mistake: verlegen (to mislay), or away; jagen (to chase), verjagen (to chase away)-or negation: achten (to esteem), verachten (to despise), bieten (to bid), verbieten (to forbid)—Rauchen verboten! The prefix zer denotes "apart, asunder, to

: reissen (to tear), zerreissen (to tear to pieces), brechen (to break), zerbrechen (to break

The prefix ent becomes emp by assimilation before \hat{f} as in finden (to find), empfinden (to feel). It denotes: (1) away, e.g., laufen (to run), entlaufen (to run away), fern (distant): entfernen (to remove). (2) Origin: springen (to jump): entspringen (to rise): Der Rhein entspringt in den Alpen. (3) Negation: decken (to cover): entdecken (to discover), beschuldigen (to accuse): entschuldigen (to excuse).

Vergeben ist leichter als vergessen. It is easier to forgive than to forget. O.S.

ITALIAN

Leggenda e realtà

(Idioms and words illustrating important rules of grammar are italicised)

A.-Le sue conversazioni sui fenomeni, vulcanici della Toscana mi han fatto ricordare l'antico mito classico di Giove (Jupiter) e di Tifeo (Typhæus or Typhon). Se lo rammenta?

B.-Mi pare di ricordarmi qualche cosa, ma confusamente. Ma me lo racconti Lei, chè

(perchè) mi farà piacere.

A.—Se non sbaglio, Tifèo era un mostruoso gigante, che aveva dichiarato guerra a Giove, per vendicare la morte dei suoi fratelli. Ma Giove lo respinse e ne punl la tracotanza scagliandolo (hurling him) sulla Terra. Precipitò, e rimase sepolto non so sotto qual monte. Sepolto, ma vivo: sicchè (so that) di tanto in tanto faceva rabbiosi sforzi (efforts) per liberarsi del grave peso che gli opprimeva il petto; e sbuffando (puffing and raging) cacciava fiamme dalla bocca e dagli occhi, ed emetteva orribili urli (yells), e, agitandosi, faceva tremare la terra.

B.-Ah sì; ora ricordó perfettamente. Ma poichè Lei m'ha parlato di questa leggenda di Tifeo, io, a mia volta, Gliene voglio ricordare una che riguarda i famosi "soffioni" della Toscana, in particolare. Si dice, dunque, che una volta i contadini di quelle regioni violarono il comandamento divino del riposo domenicale, e, aggiogati (from: giogo, voke) i buoi all'aratro (plough), si misero ad arare quei

campi. Ma ecco che immediatamente il loro lavoro sacrilego fu interrotto da un pauroso pullulare (springing up) di acque bollenti, che in pochi istanti sommersero i campi, seccandone le messi (crops). E quei sordi rumori sotterranei che d'allora in poi si sentirono sarebbero appunto le imprecazioni dei contadini e i muggiti dei buoi.

Ma questa è la leggenda; la realtà è ben diversa. Perchè i soffioni boraciferi della Toscana sono tutt'altro che una maledizione; anzi! Ad essi si deve il sorgere della mirabile

industria di Larderello.

A.—A proposito! (by the way) Poiche Lei ha nominato di nuovo Larderello, mi dica: questo nome ha forse qualche significato? A giudicare dalla sua desinenza (ending) in "-ello" si direbbe che si tratti d'un diminutivo .

B.—Ah, ah! *me l'aspettavo*, questa Sua omanda. "Larderello" è stato chiamato così domanda. dal nome del suo grande fondatore, Francesco Larderel, il commerciante francese che nel 1827 cominció-con metodi razionali-l'industria dell'acido borico. Non ho il tempo di dirle tutto il bene che lui ha fatto per l'industria. Devo però aggiungere che se lo sfruttamento dell'acido borico si deve ad un Francese, quello dell'energia meccanica dei soffioni (di cui Le parlai la volta scorsa) è opera d'un Italiano, il Principe Ginori Conti, il quale ha dedicato tutta la sua vita a questa bella e caratteristica industria toscana.

S. BREGLIA.

Esperanto Transmissions (May 1-8)

Sunday.—Langenberg, etc., 8.30 a.m., Course (S-ro Wingen)
Hilversum, 9.10 a.m., Course.
Leipzig, 2.30 p.m., Course.
Toulouse, 5.15 p.m., Course.
Stockholm (Motala), "Pratiko post lernado: per
Esperanto eksterlanden" (Neeme Ruus el Esto-

nujo).

Monday.—Leningrad, 10.5 p.m., News.

Thursday.—Paris PTT, 5.45 p.m., Course and talk (Prof. Rousseau).

Kaunas, 9.15 p.m., Talk.
Leningrad, 10.5 p.m., News.

Breslau-Gleiwitz, 10 p.m., 10 minutes for workers.

Friday.—Stuttgart, 7.30 p.m., Programme announcements.

Lisbon (CT1AA-42.9 m.), 10.30 p.m., Talk.

Salurday.—Heilsberg, 6.10 p.m., Week's Programme (F-ino Wermke).

Huizen, 5.55 p.m., News (P. Heilker).

Wermke). Huizen, 5.55 p.m., News (P. Heilker). Lyon-la-Doua, 8.15 p.m., Talk. Lisbon, 10.30 p.m., Course (282 m.). NOTE.—These times may vary a little.





Radio-Gram. £5 Radio-Gram. 65/-

7 DAYS' FREE TRIAL (or 10)- monthly).
Plane built (Pat. 8123), the acoustic tone brings a fine thrill (Plane Cass), (5,000 clientele, Radio-Press, B.B.C.) other Models, 35'- to 215.
Photographs and List FREE! Picketts Piano-Tone Cabinets, W.R. Albion Rd., Bexleyheath, Kent

LETTERS TO EDITOR

(Continued from page 840)

experts that I need not deal any further with this misstatement than to say that it is very evident. The 600m. naval transmitter at North Front being one of the I.C.W. type does not interfere except above 550m. and on its harmonics, but the seemingly continuous breaking through of morse is due to the harmonics of the other long-wave transmitters at that station, and to ships passing a few miles away, while atmospherics are a continuous source of trouble to us.

The news bulletins are naturally of great interest to us, but not to the extent of running to the nearest neighbour to hear them as "G. M. B." tries to inform you. Admitted that the Gibraltar Chronicle only gives brief cabled news, it is quite as explanatory and full of detail as the abbreviated and concise news bulletins, so we do not miss so much if we miss them. Now that England is working on B.S.T. and we are still on G.M.T., 5 p.m. is still some time from sunset and our long-distant reception is still poor at this time, so our news bulletins are not items we can rely on to get.

So you see that receptions are not so good as G.M.B." states, and are far below those of England.

One more item. I should also say "Yes" to anyone inquiring whether it would be any use to take a set to Gibraltar, but I should add this: " Provided it was a powerful set, and that they were going for the winter, otherwise it would hardly be worth the trouble.

Thanking you for bringing our little colony to the fore, which is greatly appreciated.

Yours faithfully, W. H. L.

"Music from Other Lands."

To the Editor of WORLD-RADIO

SIR,-I should like to tell you how very much I have appreciated the series, "Music from Other Lands," beginning again last week. I have found these articles most interesting and instructive, and of great use when listening in to foreign stations.

Yours faithfully, I. G. S. Uxbridge, April 14, 1932.

Which Station Was That?

Answers to Correspondents

CAMPANOL (Ipswich): (167) this running commentary was relayed by PLV, Bandoeng; (168) cannot trace without some indication of wavelength; (166) Rome testing on 42.7 m. MAYBE (Fulham): (1) DOA, Döberitz (near Berlin); (2) Rome (2RO) testing on 42.7 m.; (3) EAM, Madrid (30.7 m.). ENTENDU (Shefford): (1) new short-wave transmitter (Tripoli, N. Africa) testing with Rome. "Libya" was heard in call; (2) Rome testing on 42.7 m. J. L. S. (Dundee): (165) Radio Strasbourg; (166) Hilversum; a relay of performance from Great Concert Hall (Amsterdam). WAS IT BAIRES (E.11). There is no Spanish station on that wavelength; possibly LS5, Radio Rivadavia, Buenos Aires, on 280.5 m., but cannot confirm. R. S. 3 (E Twickenham): Harmonic of Heston Airport (833 m.). CLARLE (Bloxwich): 2RO Rome testing on 42.7 m. MOTOR-CAR (Salford): Call is that of an experimental amateur at Rossendale (Lancs). Q (Diss): Ship-shore telephony; possibly Cromer. SPOTTY (N.1): 7LO, Nairobi. WEARY WILLIE (N. 15): Aerodrome transmission for wavelength calibration. BLOSSOM (Forest Gate): Moscow (Stalin). TIN (Chiswick): Your wavelength appears to be wrong, as the transmission heard was broadcast from Hilversum on 296.1 m. (Heston airport, 833 m.). NACHT (N.W.6): (1) Moscow (Stalin); (2) Lodz relaying Warsaw; (3) Radio Maroc; (4) Moravská-Ostrava relaying Prague. INQUISITIVE (Lichfield): (1) regret, cannot trace; (2) Radio Normandie (Fécamp). FOUR VALVER (Hythe): Bucharest (altered programme). TAZ (N. 22): (7) no, Hilversum on 296.1 m.; (8) Lodz relaving Warsaw; SCHULJUNGE (Witham): Leningrad. SCHOOLBOY (Bridge): (1) possibly, Ljubljana; (2) Radio Maroc. G. E. R. (Beaconsfield): Yes, 7LO, Nairobi. PIERRE (Old Goulsdon): Radio Maroc; (2) Kiev-Juanles-Pins. HEIDELBERG (Methven): Eiffel Tower; weather forecast (Poste Militaire de la Tour Eiffel). IOLANTHE (Strathaven): Possibly, Baku (USSR); (2) Reykjavík. ANTICATHODE (Southport): Kaunas as per programme. DARTMOOR (Moretonhampstead): Bucharest. ARCHIE (Rugby): This was Königs Wusterbausen. CAN'T THINK (Fakenham

French experimental transmitter; (2) cannot trace. FIEND (Nottingham): Regret, cannot trace. HAND GAPAGITY (Thornton Heath): Apparently public service telephony; regret, cannot trace. PUZZLED (Southampton): UOR2, Vienna (49.4 m.). SNOWDROP (Pershore): Not advertised, but possibly Huizen. MAD HATTER (Berkeley): Horby relaying Stockholm; gramophone records. HETERDDYNE (Fermoy): Tallinn (296.1 m.). BADGER (Alverstoke): Hilversum. AIR ROVER (Herne Bay): We presume that you mean about 350 m. if between London Regional and Brussels (No. 2): possibly testing; (2) cannot confirm, but wavelength would tally with WOAL, San Antonio (Texas). C. A. W. (Chatham): One of the B.B.C. National relays. DIDO MODIGIEUX (Doncaster): Stockholm programme; as you give no estimate of wavelength we cannot say through which transmitter vou received it. MALOUIN (M.1.): Budapest (lecture). ESPERANTO (Stretterd): Leningrad. Local time is one hour in advance of B.S.T. LAYSON (Falkirk): Goteborg relaying Stockholm. LIKE TO KNOW (Bishop Auckland); AMBER AND BLACK (York); BOBBIE (Eastbourne): New 20 kW. Hilversum transmitter testing. GOOFUS (Guernsey): Horby relaying Stockholm. SEVEN VALVER (Gotehester): Lightship-shore telephony off your coast. PEGLER MASON (Dover): Please number your queries. (1) PLV. Bandoeng. (2) 7LO, Nairobi. MU (Forest Hall): (3) Rome(2RO) on 42.

(2) 7LO, Nairobi. MU (Forest Hall): (3) Rome(2RO) on 42.

(3) Jamonic of National transmitter. W. MOGERIEF (Wisbech): (1) cannot tell you what wavelength was used, but from deal Home Exhibition (Olympia): (2) VK2ME, Sydney; (3) Nauen (Germany). A. L. M. (Bristol): H German, Norddeich, on 38 m. CoMOB (Lec-on-the-Solent): (13) regret, cannot trace; (14) Tegucigalpa (Honduras), both in English and Spanish; (b) yes, Canadian and U.S.A, stations frequently exchange programmes; (9) cannot trace; (15) Sebastopol (U.S.S.R.) on 43.2 m; (12) LRG, Radio Mirre, Buenos Aires (330 m.); (11) WPG, Atlantic City; (10) WENR, Chicago, on 315 m., or WABC, Wavne Township (N.J.). MUSHER (Daritory): Ve

Free Query Service

Each query should be numbered and the questions on the coupon carefully answered. Letters must be addressed to the Editor, World-Radio, Savoy Hill, W.C.2.

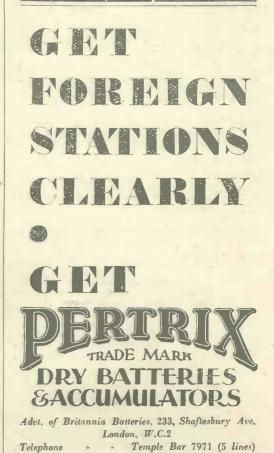
The Alternative Postal Service

In addition to the free service of "Which Station was That?" printed in these columns, replies to queries can be obtained within fortyeight hours of receipt of details, on payment of stamped addressed envelope (marked in left hand top corner "Postal Query Service"), and coupon as per conditions for "Free Queries."

IDENTIFICATION COUPON (No. 170) This coupon is valid for ONE QUESTION only, and should be cut out and attached to a separate sheet, upon which the following questions should be answered in the order shown, and, in the case of FREE queries, a copy of the answers should be enclosed. No coupon more than one month old is valid.

- Time and Date of reception.
- Approximate frequency in kilocycles per sec. (or wave!ength in metres).
- 3. Nearest known stations, above and below.
- 4. Call or interval signal, if heard.
- 5. Language.
- Type of receiver in use and strength of signal.
- Details of programme or signal received.
- Name and address.
- Nom de plume. (Proprietary names must not be used.)





Works -

- Redditch (Worcs.)

O.1988

Stations in Order of Frequencies and Wavelengths

Corrected in accordance with the latest official information available at the time of going to press

Section Sect	The figures in black type represent the power according to the Copenhagen Power-Rating, but carrier-wave power only is shown								
155	Kc/s								
100 1975				Kaunas (Lithuania)	1	689	436		
1.5 1.5	160		8.5	Huizen (Holland)					
14					1	001			Madrid (Union Radio) (EAJ7)(Spain)
Machael (Ratio Espering) Machael (Ratio Espe	174		75						
185 1854 30 Davariery Kational (Crest Britain) 7 715 416 7 7 7 7 7 7 7 7 7	183.5	1635	60			707	424.3		Madrid (Radio España) (Spain) 5—7
185 1853	193	1554.4	30	Daventry National (Great Britain)					p.m. (Mon. 5 p.m. to 12 midnight)
200, 1885 100				Ankara (Turkey)		715	419.5		
207.5 1445.7 13 Elific Tower (FLE) 724 485 15 15 15 15 15 15 15	202.6	1481	100						
272.5 1411 120 Marsow No. (Poinch) 743 403 55 Radio Suines Remarda (Sottera) (Sott	207.5	1445.7	.13						
Month (Ended) (relays Stockholm)	212.5	1411		Warsaw No. 1 (Poland)				25	Radio Suisse Romande (Sottens)
230.1 1304 100 Moscow (Trades Union) 781 384 12 12 12 12 12 12 12 1						- 1			(Switzerland)
233.1 1900 24 Novombirch (Russia) 770 390 1.5				Moscow (Trades Union)			-		
1.25 1.27				Novosibirsk (Russia)					
Section Sect			0.6						Frankfurt (Germany) J
100		-							
1858			21	Reykjavik (Iceland) J					Moscow (Russia)
			1	(-	
Molecow, Popolf	260	1100	1.5						Radio LL (France)
1884 1053 105 10				Moscow, Popoff					Bolzano (Italy) (1BZ)
1000 1000 1000 Lenngrad (Russia) V20 824 384 384 384 385 50 Kirek (Russia) V20 824 384 385 385 385 385 78 20 Kirek (Russia) 822 382 385 385 385 78 20 Kirek (Russia) 824 384 385 385 78 20 Kirek (Russia) 824 385 385 385 78 20 Kirek (Russia) 825 385 78 20 Kirek (Russia) 825 385 78 20 Kirek (Russia) 825 385 78 78 March (Russia) 825 385 78 March (Russia) 825						815	368.1		Helsinki, (Finland)
200 207.5 200 Kharkov (Russia) 200 224 384 1 385.5 381.5 384.7 4 Rostov-Don (Russia) 282.5 385.5 385.5 381.7 4 Rostov-Don (Russia) 282.5 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 381.7 385.5 385						816	-367.6		
Sign				Kharkov (Russia) RV20					Bergen (Norway)
1885 778		1 _							Algiers (N. Africa)
1896 770								00	
1895 760							356		London Regional (Great Britain)
August A	-								Graz (Austria) (usually relays Vienna)
								_	Barcelona (Radio Barcelona) (EAJ1)
Separate Separate						000	245	11.5	(Spain)
527 570 0.25 Freiburg-im-Breisgau (Germany) (re. 887 338.2 5 5 5 5 5 5 5 5 5			1						
531 556 531 556 2		570			1			15	Brussels No. 2 (Belgium) (Flemish
531 565 2 Smolensk (Russia) 533 56 560	F20	FCC	0.05						
533 563 560 6 0.25						896	335		
Section Sect		563		Wilno (Poland)		905	331.5		Milan (Italy)
Section Sect				Augsburg (Germany) (relays Munich) Kaiserslautern (Germany) (relays		914	328.2		Poste Parisien (Paris)
554 550	536	560	1	Munich).					
State	E 4 5	FFO	-			932	322		
10 Sundsvall (Sweden) 503 533 1.5 Munich (Germany) 950 315 1.6 Marseilles (PTT) (France) 517 525 515 516 Kiga (Latvia) 959 312.8 517 515 Kiga (Latvia) 959 312.8 516 517 515 Kiga (Latvia) 959 312.8 517 515 Kiga (Latvia) 959 312.8 516 Kiga (Latvia) 950 315 Kiga (Latvia) 950 North (Ratvia) 950 North (Ratvi				Palermo (Italy)		941	319		
525 525 15 Riga (Latvia) Vienna (Rosenbügel) (Austria) 959 312.8				Sundevall (Swaden)					Sofia (Rodno-Radio) (Bulgaria)
581 517 590 590 15 5 5 5 5 5 5 5 5			1			950	315		C (D-11)
599 509 509 509 509 500 509 500	581	517	15	Vienna (Rosenhügel) (Austria)		959	312.8		
Nijni Novgord (Russia) 977 307 0.5 Falun (Sweden) 0.75 Zagreb (Yugoslavia) 0.75 Zagre	590		(00	Brussels No. 1 (Belgium)					Radio-Vitus (France)
Moscow (Russia) 971 301 0.75 2agreb (Yugoslavia) 301 0.75 2agreb (Yugoslavia) 301	599	500.	8 20	Nijni Novgorod (Russia)					Ealum (Sucalam)
614 488.6 120				Moscow (Russia)				0.75	Zagreb (Yugoslavia)
Solid Soli				Prague (Czechoslovakia)					
Sebastopol (Russia) 1001 298.6 1003 298.6		480		North Regional (Manchester) (Great		330	301.3		
Columb	630	476	1 2	Sebastopol (Russia)					
1.5			60	Langenberg (Germany)					
1031 291 1 1032 1032	644	465		Lyons (La Doua) (France) (relays	.	1022	293		Limoges (PTT) (France)
1031 1031	044			Tartu (Estonia)	.[0.25	Pietarsaari (Jacobstad) (Finland) (re-)
13.2 Nipuri (Viborg) (Finland) (relays 13.2 13.2 13.2 Nipuri (Viborg) (Finland) (relays 14.2 Nipuri (Viborg) (Finland	653	459	60	Schweizerischer Landessender (Bero		1031	291	1	
Color Colo			0.5	Durit (NT)		1031	231		
Column				Danzig (Free City) (relays Königs-				-	Helsinki).
1		41	0.5		, ,				British Relay Stations
1		1						(1	
Fri. 7.30—9 p.m., other days 10 p.m. to midnight).	662	453.	1 3	Salamanca (Spain) (EAJ22) }				1	Bournemouth
P.m. to midnight). Tromsö (Norway) Discription Plymouth Discription Discri			0.6	San Sebastian (Spain) (Mon., Wed.,			000 5		
0.1 Tromsö (Norway) 10.15 Uppsala (Sweden) (relays Stockholm) 4 Odessa (Russia) 1043 287.6 1049 286 1049 286 1049 286 1049 287.6 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 286 1049 1058		7111		p.m. to midnight).		1040	288.5		3.T .1
450.4 4 Odessa (Russia). 1043 287.6 1049 286				Tromsö (Norway)	1 100	-	,	0.12	Plymouth
1049 286 Montpellier (France) 1049 286 1049 104	666	450				1042	227 6	1 %	
671 447.1 0.08 Notodden (Norway)									Montpellier (France)
(France) 0.15 Stettin (Germany) (relays Berlin) Innsbruck (Austria) (relays Vienna)	0.5		0.08	Notodden (Norway)				0.5	Berlin Relay (Germany)
0.15 Rjukan (relays Oslo) (Norway) 0.5 Innsbruck (Austria) (relays Vienna)	671	447.	0.7			1058	283		
			0.15	Rjukan (relays Oslo) (Norway)	1 0	5		C.5	Innsbruck (Austria) (relays Vienna)
	680	441				1 1063	282.2	- 2	Lisbon (Portugal)

STATIONS IN ORDER OF FREQUENCIES AND WAVELENGTHS (Continued) Kc/s Dial Readings Kc/s M. kW. Station Dial Readings 0.75 Copenhagen (Denmark) 1067 281 0.25 Kiel (Germany) (relays Hamburg) 11..... 1292 232.2 1071 280 Radio Liége (Belgium). Bratislava (Czechoslovakia) Heilsberg (Germany) (rel. Königsberg) 1076 279 1085 276.5 60 1301 231 Malmö (Sweden) (relays Stockholm) Turin (Italy) Rennes (France) Bremen (Germany) (relays Hamburg) 1096 273.7 0.2 Umea (Sweden).. 272 1103 1.3 1310 229 0.05 1112 270 0.25 226 0.15 0.7 1337 224.4 Cork (Ireland) ... 1121 267.6 1364 219.9 Lille (PTT) (France) Moravská-Ostrava (Czechoslovakia) London National (Great Britain) 1130 265.4 0.5 Flensburg (Germany) (relays Ham-263.8 1137 burg) 1147 261.6 50 Pori (Björneborg) (Finland) (relays 1373 218 0.7 Leipzig (Germany) Hörby (Sweden) (relays Stockholm). Toulouse (PTT) (France) 1157 259 Helsinki). 1166 257 10 Salzburg (relays Vienna) Karlstad (Sweden) 0.5 1175 255 0.7 0.25 Gleiwitz (Germany) (relays Breslau). Almeria (Spain) (EAJ 18) Barcelona (Association National) 1382 217 1184 253 5 0.5 Königsberg (Germany) Halmstad (Sweden) Radio Chatelineau (Belgium)... I 1391 216 1 1193 252 (EAJ15) 1400 214.2 Warsaw, No. 2 (Poland) (Experimental) 0.25 Budapest, No. 2 (Hungary) Borås (Sweden). Ornsköldsvik (Sweden). Gävle (Sweden) (relays Stockholm). Trollhättan (Sweden) .. 1428 210 Varberg (Sweden) Juan-les-Pins (Nice) (France)... Kalmar (relays Stockholm) Trieste (Italy) 1202 249.6 0.3 1450 207 0.15 1205 249 1460 208 0.2 1470 204 0.2 1211 247.7 10 203 1480 0.25 Kristinehamn (Sweden) Kristinehamn (Sweden) Jönköping (Sweden) (relays Stockholm) 0.5 Berne (Switzerland) ... 1490 202 0.25 Cartagena (Spain) Cassel (Germany) (relays Frankfurt) Eskilstuna (Sweden) (relays Stock-0.4 1530 196 Karlskrona (Sweden) (relays Stock-.... 0.2 1714 175 St. Quentin (France) ... holm). Kiruna (Sweden) (relays Boden) 1220 246 0.25 DEVIATIONS Linz (Austria) (relays Vienna) Säffle (Sweden) (relays Stockholm) 0.4 The following are the actual deviations from the official frequencies, as noted Turku (Abo) (Finland) (relays Hel-0.6 during measurements made at the Tatsfield Checking Station. All differences of 1.9 kc/s and over are shown. sinki) 1229 Basle (Świtzerland) 0.5 1236 242.7 Liége Experimental (Belgium) 605.11 495.8 Trondheim (Norway) .. 1238 242 Stavanger (Norway) Belfast (Ireland) 910 329.7 Poste Parisien (France) Radio Vitus (France) . . 1247 240.6 0.5 973.1 308.3 1250 240 Radio Beziers (France). Radio Beziers (France). Nürnberg (Germany) (relays Munich) Bordeaux Sud-Ouest (France) Radio-Nîmes (France). Örebro (Sweden) (relays Stockholm) Christiansand (Norway) Lodz (Poland) (Experimental). 1045.4 286.7 Lyons (France) .. Trollhätten (Sweden) .. 4 4 1256 239 1195 251 1201.8 249.6 3 Juan-les-Pins (Nice) (France) 1265 237.2 1285 233.4 Lodz (Poland) 0.2 1352.6 221.8 Fécamp (Radio Normandie) (France)..... 1274 235.5 1283 (For List of Short-Wave Stations see page 848.)

Last Week's Log

(April 17-23)

By "THE SEARCHER"

HERE was rather a curious happening—though I have noted similar occurrences on two previous occasions in past years in the Log—on the Thursday of the week now discussed. A fine morning was followed by a wet afternoon, and at about 4.30 p.m. there was a terrific hailstorm, accompanied by thunder and vivid flashes of lightning. Within a few minutes after the final thunderclap I thought it might be interesting to see just how bad atmospherics were. I therefore switched on a four-valve set (two screen-grid H.F., detector, and power output) operated from an indoor aerial consisting of a forty-foot span of wire suspended in the attic just below the roof.

To my surprise no interference could be noticed when the local station's transmission was coming through; feeling, though, that its power might be sufficient to drown atmospheric interference of the milder type, I switched over to the long waves, and tuned in Kalundborg. The Danish station was received excellently and without a trace of atmospheric interference. Next, Stockholm was tuned in on the medium waves, with the same results. Why it should happen that there were no atmospherics worthy of the name immediately after a thunderstorm I have no idea, but my experience was as recorded. I wonder whether any readers whose localities were visited by thunderstorms in this same week tried their wireless sets and had similar results.

Curiously enough, though the Saturday was the finest day of the week, it was the only one on which atmospherics were really troublesome. On the Saturday night those of the loud crashing variety were to be heard at frequent intervals.

Long-wave reception has been extraordin-

arily good during the week. The only station, in fact, which failed to score full marks on every occasion was Königs Wusterhausen, who, though splendidly heard on other days, was considerably below normal strength on the Friday. Every other station of importance provided full loud-speaker strength throughout the week. The medium-wave band has also been particularly good. In my locality reception was very much better during the week between April 17 and 23 than during that between April 10 and 16. More stations were heard and allround signal strength showed a very distinct improvement.

Î can hardly believe that Florence has been using his (I feel that I really ought to write her), full 20 kilowatts until recently, for signal strength was seldom very great until towards the end of the previous week, and the station, though usually to be found, could not be regarded as consistently good. This week Florence has been received at full loud-speaker strength on every night. Others which show the same record are Prague, Langenberg, Rome, Katowice, Sottens, Toulouse, Hamburg, Strasbourg, Brno, Milan, Breslau, Hilversum, Heilsberg, Turin, Trieste, and Nürnberg.

Beromünster was slightly below strength on

Beromünster was slightly below strength on the Monday and bad jamming occurred on the Wednesday. Lyons Doua, who had been pretty well heard during the previous week, was only once recorded this week and then he was but a feeble signal. Stockholm would have obtained full marks but for a slight falling off on the Thursday. Frankfurt's best nights were the Monday, Wednesday, and Friday; his worst was the Tuesday, and on the Saturday he was rather below his usual strength. Lwów is not so consistent at the moment as he was. I had excellent reception on the Monday and Wednesday and heard him with rather less strength on the Tuesday, Friday, and Saturday.

Interference between Stations

(April 1-23)

THE steady lengthening of the days results in a corresponding decrease in the interferences between the more distant stations, and particularly in the interferences due to Soviet stations. This is the case, for instance, with Frankfurt (770 kc/s), interfered with by Archangel; with Brussels No. 1, heterodyned by Astrakhan; and with Florence, heterodyned by Nijni-Novgorod. There is, however, an exception: this is Radio-Toulouse (779 kc/s), the interference with which is very probably due to Stalina; a Soviet station of 10 kW recently put into operation. This interference can be observed on Radio-Toulouse's transmissions up to 9 or 10 p.m., and many listeners have complained of it.

The new transmitter of Poste Parisien (60 kW) has taken up, since April 17, the regular night transmissions. Since the same date, Grenoble PTT has left 914 kc/s, which has thus become Poste Parisien's exclusive wavelength, in order to escape the interference between the two stations, during the tests of Poste Parisien. Grenoble PTT, which is supposed to use a frequency round Freiburg (527 kc/s) or Augsburg-Kaiserslautern (536 kc/s), has not been found on such frequencies during this week, nor on any other part of the broadcasting band.

On several occasions a very severe heterodyne has been noted on Barcelona EAJ 1 (860 kc/s). This interference was caused by an unknown station using about the same wavelength, and was particularly remarkable on the 22nd.

L.B.

The Schedule of Advance Programmes will be found on page 882



The ORMOND Nº3 Adjustable LOUDSPEAKER UNIT

Every amateur constructor will appreciate the keenness of the value offered in this well-known Ormond unit. Extremely sensitive, it gives an even response, faithful reproduction and long service usually associated only with high-priced units.

A Cobalt magnet is incorporated and the working parts are enclosed in a beautifully finished bakelite cover of Walnut colour. It is easily mounted in a cabinet or chassis, only two screws being required. An adjustment is fitted in a readily accessible position. Cat. No. R/463.



The ORMOND SMALL CHASSIS & CONE

Working in conjunction with the No. 3 Unit, this Chassis and Cone forms a Loudspeaker of amazingly high efficiency, at a very low price. The chassis, constructed of aluminium ribbed and specially strengthened, is provided with two brass

The chassis, constructed of aluminium ribbed and specially strengthened, is provided with two brass pillars complete with lock-nuts to facilitate assembly of the unit. The cone of specially selected material, is firmly secured to the outer ring, in which screw holes are provided for securing to baffle-board or cabinet. Diameter 11\(^2\)sins. Cat. No. R/451. The Ormond Large Chassis and Cone is of similar construction, but 16\(^1\) ins. in diameter. Cat. No. R/458. Price 9/-

THE ORMOND ENGINEERING CO., LTD., Ormond House, Rosebery Avenue, London, E.C.1
Telephone: Clerkenwell 5334/5/6 & 9344/5/6. Telegrams: "Ormondengi Isling."





PROGRAMMES FOR SUNDAY (May 1)

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

9.0 a.m. Warsaw: Mass from Wilno. Hamburg: Service from Brunswick.

11.30 " Leipzig and most German stations:

Church Cantata (Bach) 8.25 p.m. Huizen: Service from the Cathedral,

Bois-le-Duc.

SYMPHONY CONCERTS

8.0 p.m. Berlin (Witzleben) and other German

Stations: Richard Strauss.
Hamburg: Tchaikovsky programme.
Strasbourg: Berlioz-Beethoven pro-8.30 gramme.

CONCERTS (Vocal and Instrumental)

6.15 a.m. Most German stations: Bremerhaven Harbour Concert.
Budapest: Conducted by Dohnanyi

5.40 p.m. Schweizerischer Landessender: Choral and Orchestral. 8.0 2.2

Strasbourg: Choral and Orchestral. Copenhagen: Danish "Spring" music. 9.40 ,,

OPERAS AND OPERETTAS

7.30 p.m. Budapest: "The Gipsy Baron." Italian stations (Northern): "I Puritani" (Bellini).

RECITALS

6.15 p.m. Leipzig: Elena Gerhardt. 9.50 " Warsaw: Feuermann ('Cello).

MISCELLANEOUS

3.30 p.m. Brussels No. 1: Belgium v. France

(football).

'double of the first Budapest relay to Budapest: T the U.S.A. 5.0

DANCE MUSIC

10.20 p.m. Hamburg. 10.30 p.m. (till 12): Strasbourg.

Though it can never be quite literally true that a man who was one day poor and struggling, woke the next morning to find himself famous, it is as the next morning to find filmself famous, it is as nearly true of Mascagni and his opera Cavalleria as of anyone in history. Born in Leghorn at the end of 1863, Mascagni, like many another artist, was destined for the Law. His father was so sternly opposed to music as a career that young Mascagni had to carry on his studies in secret, and, though he



Photo: Intercontinental Rucio, Rom. Mascagni

contrived for a time to keep the fact from his father, he was eventually found out. Fortunately, a kindly uncle interposed and saw to it that his obvious gifts for music were properly cultivated. But a good deal of struggle and hardship was still before him, until Cavalleria Rusticana won the first prize in a competition in 1889; it was triumphantly produced in Rome in May, 1890, and quickly made its way all over Europe; everywhere its force and directness won immediate success. For some years it looked as though that was to be his only popular work, but within the past few years he has again been taking the place among his compatriots to which his great gifts entitle him, and more than one later opera is a serious rival to his first. Two recent short operas were announced for this evening by the ITALIAN STATIONS OF THE NORTHERN GROUP, with the composer himself as conductor, and though the programme has been altered at the last moment, they will no doubt be given at an early date. Conducting is also a direction in which he has won renown, and he has toured with more than one fine Italian orchestra both in Europe and in America.

Saint-Saëns' tone poem, which WARSAW station is to broadcast to-day, is based on the classical tale of how Phaeton persuaded his father, the Sun, to let him drive the fiery chariot across the sky. Listeners will remember that in the old tale he lost control of the horses, and the chariot was on the point of crashing into the earth to wreck it, when Jupiter hurled a thunderbolt which destroyed the youth and his car. There is a short and impressive introduction, and then we hear the galloping steeds, and, a little later, a pompous tune on the brasses no doubt stands for the young Phaeton himself. Four horns afterwards play a fine broad melody, which is the dirge of the Sun over the boy's death. The music works up to a great pitch of excitement, and against a strenuous version of the Phaeton theme we can quite clearly hear the falling of the thunderbolt, and, at last, the lament.

NATIONAL

kc/s kW London: 1,148 261.3 50 Daventry: 193 1,554-4 30 Northern: 995 301.5 50

Northern: 995 301.5 50

9.50 a.m.—A Morning Service for the Military, relayed from York Minster.

11.15—11.30—Time Signal (Greenwich); Shipping Forecast.

3.0 p.m.—Time Signal (Greenwich).

3.0—The Leslie Bridgewater Quinter in a Programme of Pierrotic Music.

3.45—Children's Service.

4.15—An Orchestral Concert. The B.B.C. Orchestra (Section C), conducted by Joseph Lewis. Geoffrey Dams (Tenor).

5.30—A Violin Recital by Henri Temianka. Two Preludes (Chasins, arr. Press); Introduction and Rondo Capriccioso (Saint-Saëns); Nigun (Spiritual Improvization) (No. 2, Baal Shem) (Bloch); Sicilienne (Paradies, arr. Dushkin); Perpetuum mobile (Ries).

6.0—6.15—"What is a Saint?"

—XIV. "Saints without the 'St."
By the Rev. Father C. C. Martindale.

8.0—8.45—A Religious Service from The Studio

8.0—9.45—A Religious Service from The Studio. 8.5c—" The News."

The Studio.

8.5c—"The News."

9.6—Time Signal (Greenwich).

9.5—The B.B.C. Theatre Orchestra (Leader, S. Kneafe Kelley), conducted by Stanford Robinson. Overture, Raymond (Ambroise Thomas). Herbert Cave (Tenor): As you pass by (Russell); Dolorosa (Phillips); Jane (Barker). Orchestra: Waltz, Bien Aimés (Waldteufel); Two Arabosques (Debussy). Herbert Cave: From the Land of the sky blue Waters, Far off I hear a Lover's Flute (American Indian Songs), At Dawning, and I hear a Thrush at Eve (Cadman). Orchestra: Humoresque (Dvorak); Liebesfreud (The Joy of Love), Liebeslied (A Love Song) (Kreisler); Gopak (Mussorgsky). Herbert Cave: Maire, my Girl (Aitken); An Evening Song (Blumenthal). Orchestra: Selection, La Bohème (Puccini). 10.30-Epilogue.

REGIONAL

kc/s London: 842 356.3 50 Midland: 752 398.9 25 Northern: 626 479.2 50

9.50—11.15 p.m. (approx.) (London and Northern)—A Morning Service for the Military, relayed from York Minster. Address by the Bishop of Hull, the Rt. Rev. Bernard O. F. Heywood.
3.0 p.m. (London and Northern)—Daventry National Programme.
3.0 (Midland)—The McGowran Male Voice Quartet. Mary Ashmell (Violin). Marjorie Bloese and Phyllis Burrows (Two Pianofortes).
3.45 (London)—The Wireless Military Margaretts).

45 (London)—The Wireless Military Band. Conductor, B. Walton O'Donnell. Joseph Farrington (Bass).

(Bass).

3.45 (Northern)—" May Day." A Programme of Music and Poetry. Presented by Kenneth Adam. Ida Bloor (Soprano). Alfred Barker (Violin). Charles Ellam (Pianoforta).

(Violin). Charles Ellam (Pianoforte).

4.15 (Midland)—An Organ Recital by Fred Dunhill.

5.0—5.30—"Travellers from the East"—IH. Mr. A. Rose.

7.55 (Northern)—A Religious Service relayed from The Manchester Cathedral.

8.0 (London)—A Roman Catholic Service relayed from St. Saviour's Church, Lewisham.

8.0 (Midland)—A Religious Service from The Central Hall, B'ham.

8.45 (London), (Midland), (Northern).

—The Week's Good Cause. An appeal on behalf of the Manchester and Salford Boys and Girls Refuges and Homes by Mrs.

Falkner Hill.

8.50—General News Bulletin.

Falkner Hill.

8.50—General News Bulletin.

9.5—Sunday Orchestral Concert—XXVII. Jelly d'Aranyi (Violin).

Adila Fachiri (Violin). The B.B.C.
Orchestra (Section B) (Leader, Arthur Catterally, conducted by Leslie Heward. Orchestra: Overture, Portsmouth Point (Walton); Die Okeaniden (Sibelius). Jelly d'Aranyi, Adila Fachiri and Orchestra: Concerto for Two Violins (Holst). Orchestra: Quodlibet (Heward).

10.30—Epilogue.

The Frequencies and Wavelengths given in the following programmes are those published the stations in question. For more accurate measurements, readers are referred to our Table of Frequencies and Wavelengths.

NOTE: THE HOURS OF TRANSMISSION ARE RE-DUCED TO BRITISH SUMMER TIME

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW.
Transmits at intervals from 11.30 a.m.
7.0 p.m.—Concert of Dance Music,
7.30—Songs from Operas. Song from
"Louise" (Charpentier). Song
from "I Pagliacci" (Leoneavallo).
Song from "La Travata" (Verdi).
Song from "Sigurd" (Reyer).
Song from "Il Trovatore"
(Verdi). Song from "Martha"
(Flotow). Song fro (Verdi). (Flotow).

(Flotow).

8.0—Request Concert of Orchestral Music. 9.0—Election Results. 9.15

—Request Concert (contd.). 9.30

—News and Election Results. 10.0—Dance Music. During the Programme, Election Results and Close Down.

BARCELONA (Spain)

BARCELONA (Spain)
Radio-Barcelona (EAJ1). 860 kc/s
(349 m.); 8 kW.
8.30—9.45 a.m.—Topical Review.
12 noon—Chimes and Weather. 2.0—
Fortnightly Health Report and Light
Music on Gramophone Records.
2.30—Concert by the Station Sextet.
3.0—Theatre Notes, Popular Music
on Gramophone Records and Cinema
Review. 3.20—Sextet Concert (continued).
4.0—Programme for Hospitals and Benevolent Institutions,
with Gramophone Records.
6.30—Gramophone Records of Popular Music.
7.0—Orchestral Selections.

art Music. 7,0—Orchestral Sciections.
7,30—Baritone Song Recital. Arias from "Rigoletto" (Verdi), "Las from "Rigoletto" (Verdi), "Las from "Usandizaga) and "I Pagliacci" (Leoncavallo).
8.0—Agricultural Talk. 8,10—Vocal and Orchestral Concert. Soloist: Pepita Paulet. 9,0—Dance Music from the Excelsior Dance Hall. 10.0—Reguest Gramophone Records.
11.45—Lesson in Chess. 12 midnight (approx.)—Close Down.

BELGRADE (Yugoslavia)

697 kc/s (430.4 m.); 2.5 kW.
Transmits at intervals from 8.55 a.m.
5.0 p.m.—Dance Music by a Balalaika
Orchestra. 6.55—Time Signal and
Programme Announcements. 7.0—
Recital of National Songs by Mile
Milutinovic. 7.30—Czigány Music
relayed from the "Potrosacka Zadrus,
ga." 8.0—Talk. 8.40—Concert for
Soloists, Choir and Orchestra. 10.0—
News and Sports Notes.

News and Sports Notes.

10.20—Song Recital by Frau Zlatka Lulic-Radica. Passion (Lulligarg). Dorita (Lulligarg). Song from "The Czarevitch" (Lehár). Song from "The Gipsy Baron" (Strauss). Song from "Countess Maritza" (Kálmán). Song from "Gipsy Love" (Lehár).

10.50—Dance Music relayed from the "Ruski Car". Restaurant.

BERLIN (Germany)

BERLIN (Germany)

Königs Wusterhausen. 183.5 kc/s (1,635 m.); 60 kW.

11.0 a.m.—Reinhard Goering reads from his own Works. 11.30—2.30 p.m.—See Berlin (Witzleben). 2.30—Talk: What can be seen from a Balloon? 2.55—Talk: National Characters in World Literature—Don Quixote. 3.30—6.20—See Berlin (Witzleben). 6.20—Talk: The Young Generation Speaks—Collectivism or Individualism? 7.0—Festival Programme for Workers—Vocal and Instrumental Music with Address by Dr. Grimme, Minister of Education. 7.50 till Close Down—See Berlin (Witzleben). 12.30 a.m. (Monday)—Close Down.

BERLIN (Germany)

Witzleben. 715 kc/s (419.5 m.);

1.5 kW.

Transmits at intervals from 6.0 a.m.

(Gymnastics and Hamburg Relay).

11.0, a.m.—"Working People in Music"—with Introductory Talk by Rudolf Wissell, Minister of

by Rudolf Wissell, Minister of Labour.
11.30—See Leipzig. 12 noon—
Annemarie Schwarzenbach reads from her own Works.
12.10 p.m.—Concert by the Berlin

Concert Society, conducted by Clemens Schmalstich. Overture, "Poet and Peasant" (Suppé). Selection from "Der Freischütz" (Weber). Suite from "Coppélia" (Delibes). Waltz, Frühlingsstimmen (Johann Strauss). Overture, "The Bartered Bride" (Smetana). Sclection from "The Czardas Princess" (Kälmán). Hungarian Rhapsody No. 1 (Liszt). Waltz Serenade, and Foxtrot from "Die Tänzerin aus Liebe" (Schmalstich). Waltz, España (Waldteufel). Overture, "Orpheus in the Underworld" (Offenbach).

2.0—Start and Finish of the Long-Distance Cycle Race: Berlin—Kottbus—Berlin (on Gramophone Records). 2.30—Choral Concert of Workers' Songs. 3.0—Reading. 3.30—Report on the General Assembly (Landesgemeinde) in Trogen, Appenzell. 4.30—See Breslau. 5.10—Part Relay of a Handball Match from the Tiergarten Sports Ground. 5.25—The Dansant from the Hotel Excelsior. 6.20—"From Weekdays to Sundays," by Karl Bröger. 6.45—Quintet in F Minor, Op. 34, for two Violins, Viola, 'Cello and Pianoforte (Brahms). 7.25—"Napoleon"—Na Narrative (Carl Sternheim). 7.50—Sports Notes. 8.0—Copcert by the Berlin Wireless Orchestra, conducted by Richard Strauss. Symphony in C Major (Mozart). Symphonic Poem, Don Juan, Op. 20 (Richard Strauss). 8.45—News Bulletin. 9.0—"Spring"—a Radio Potpouri, arranged by Cornelius Bronsgeest. The Maximilian Albrecht Choir, the Berlin Wireless Orchestra, the Hans Schindler Jazz Symphonists and Paul Dietrich's Schrammelquartett, with Soloists. 10.15—News Bulletin, followed by a Report on the Opening of the World Industrial Conference in connection with International Trade Week, 1932 (on Gramophone Records). After the Report: Dance Music. 12.30 am. (Monday)—Close Down.

BORDEAUX-LAFAYETTE

(PTT). 986 ke/s (304 m.); 13 kW. 2 noon—Programme relayed from

Paris (Ecole Supérieure), 671 kc/s (447.1 m.). 2.0 p.m.—Relay from Paris or Relay of a Local Festival. 6.20—Sports Results. 6.30—Radio Journal. 8.0—Boxing Review. 8.10—Lottery Results. 8.30—Light Music on Gramophone Records. 9.0—"The Professions in Music"—Concert on Gramophone Records.

BRATISLAVA (Czechoslovakia)

1,076 kc/s (279 m.); 14 kW.

Transmits at intervals from 6.30 a.m.
6.15 p.m.—Mandoline and Guitar
Concert. 7.0—See Prague. 8.5—
"Josef Dajetan Tyl"—Drama from
the Life of Tyl (F. Samberk,
with Music by Dvorak). 10.35—
Programme Announcements. 10.40
—See Prague. See Prague.

BRESLAU (Germany)

BRESLAU (Germany)

023 kc/s (325 m.); 1.5 kW. Relayed
by Gleituitz, 1,184 kc/s (253 m.).

Transmits at intervals from 6.15 a.m.
(Hamburg Relay).

11.30 a.m.—See Leipzig. 12.10 p.m.—Concert from Berlin (Witzlehen).

2.0—Midday Report. 2.10—"Solitary People"—1: "Two Wood-cutters" (Armin Schonberg), read
by Hermann Gaupp. 2.30—A Radio
Denort from Silberheys. 1,30—See tary People"—1: "Two Woods-cutters" (Armin Schonberg), read by Hermann Gaupp. 2.30—A Radio Report from Silberberg. 3.30—See Leipzig. 4.30—Programme for Chil-dren: German Children's Songs, Nursery Rhymes and Sayings (art. Friedrich Wirth) by Four Children and Members of the Station Orch-

stra.
5.10—Orchestral Concert, conducted by Franz Marszalek. 6.20—Weather and Sports Results. 6.30—Dialogues from "Wilhelm Meister" (Goethe).
7.0—See Berlin (Königs Wusterhausen). 8.0—12 midnight—See Berlin (Witzleben). In the interval at 10.15—Time, Weather and News.
12 midnight (approx.)—Close Down.

BRNO (Czechoslovakia)

878 kc/s (342 m.); 35 kW.
Transmits at intervals from 6.30 a.m.
7.0 p.m.—See Prague. 8.5—See
Bratislava. 10.35—See Bratislava.
10.40—See Prague.

BRUSSELS (Belgium) (No. 1)

BRUSSELS (Belgium) (No. 1)

I.N.R. 500 kc/s (500 m.); 15 kW.
6.0 a.m. and at hourly intervals throughout the day—Pigeon Flying Report. 10.0—12 noon—Programme in Celebration of Kirst of May. 10.0—Overture on Theban Trumpets. Gramophone Record: L'Internationale. 10.15—Talk by Emile Vandervelde: May 1st. 10.30—Report on the First of May Celebrations at Liège and Antwerp, with Gramophone Interludes. 12 noon—Gramophone Concert of Sound Film Music. 12.30 p.m.—Weather Report. 12.40—Concert (contd.).
1.0 p.m.—Concert by Max Alexs and his Orchestra. 2.0—Programme for Children. 2.30—Choral Selections and Songs. 3.30—Report on the Football Match, Belgium v. France, relayed from the Heysel Stadium. 5.0—Orchestral Concert, conducted by Arthur Meulemans. 5.45—Concert by the Quaregnon Workers' Choir and a Brass Band. 7.15—Religious Address by the Reverend Father Draime. 7.30—Le Journal Parlé. 8.0—Concert. 9.0—Reading from "The Weavers" (Hauptmann). 10.0—Talk on Pigeons. 10.10—Gramophone Concert of Modern Dance Music.

BRUSSELS (Belgium) (No. 2)

N.I.R. 887 kc/s (338.2 m.); 15 kW. Programme in Flemish. 0.0 a.m.—See Brussels No. 1. 11.30 —Concert of Popular Music on —Concert of Popular Music on Gramophone Records. 12 110011— Selections from Sound Films on

Address. 7.30—Music Review. 8.0—Choral and Orchestral Concert, relayed from Antwerp. 10.0—Local Dournal Parlé. 10.10—Concert of Dance Music on Gramophone Re-

BUCHAREST (Romania)

Radio-Bucarest. 761 kc/s (394 m.); 12 kW.

12 kW.—Programme for Children.
10.15 a.m.—Programme for Children.
10.30—Religious Reading. 10.45—
Choral Selections of Sacred Music.
11.0—Orchestral Concert. 12 noon—
Light Music on Gramophone Records.
12.45 p.m.—News and Time Signal.
1.0—Popular Music on Gramophone Records.
4.0—Programme for Pageants.

Peasants.
5.0—Light Music and Romanian Music by the Jean Marco Orchestra.
6.0—News and Time Signal. 6.10
—Concert by the Jean Marco Orchestra (contd.). 7.0—Readings and Recitations for Easter. 7.40—Light Music on Gramophone Records.
8.0—"Baba Harca"—Operetta in Three Acts (Flechtenmacher). In the intervals, News.

BUDAPEST (Hungary)

545 kc/s (550 m.); 18.5 kW.
Transmits at intervals from 7.0 a.m.
Also relayed on 210 metres from 3.0—3.45 p.m. and from 6.0 p.m. to 12 midnight.
11.0 a.m.—Service, followed by

3.0—3.45 p.m. and from b.o p.m. to 12 midnight.

1.0 a.m.—Service, followed by Concert by the Royal Hungarian Opera House Orchestra, conducted by Otto Berg. Talk in the interval.

2.0 p.m.—Gramophone Records of Variety Music. 3.0—Agricultural Talk. 3.45—Orchestral Concert, conducted by Stefan Bertha. Soloist: Weygand (Vocalist).

5.0—Transmission to America. Concert by the Royal Hungarian Opera House Orchestra, conducted by Ernst von Dohnanyi. Hungarian National Hymn (Erkel). Symphonic Poem, Tasso (Liszt). Rakozy March (Berlioz). In the first interval: Talk in English—A Word to the American People.

5.40—Concert by the Opera House Orchestra, conducted by Ernst Ophnanyi. 6.25—Microphone Report from Kalocsa. 7.0—Talk.

7.30—"The Gipsy Baron"—Operetta (Johann Strauss), relayed from the Opera House. After the Opera: Cigány Concert from the Kovacsevics Restaurant.

Restaurant. COPENHAGEN (Denmark)

1,067 kc/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 kc/s

(1,153 m.). ransmits at intervals from 8.30 a.m.

Transmits at intervals from 8.30 a.m. (Gymnastics).

11.30 a.m.—Weather and News.

12.noon—Town Hall Chimes.

12.2 p.m.—Instrumental Concent.

Overture, "Preciosa" (Weber).

Minuet in F. Major (Mozart). Waltz,

Hofballfainze (Johann Strauss). Selection from "A Masked Ball"

(Verdi). Gavotte (Lully). Chanson

Louis XIII et Pavane (Couperin).

Minuet and Tambourin (Poise).

Overture, "Idomeneus" (Mozart).

1.0—Talk in English: A Holiday in

London. 1.20—German Lesson.

1.40—French Lesson. 2.0—Accordion Recital. 2.30—Programme for

Children.
3.0—Orchestral Concert, conducted by Launy Gröndahl. Soloist: Esther Vagning (Pianoforte). 5.0—Divine Service from the Cathedral. 6.20—Talk. 6.50—Weather and News. 7.15—Time and Sports Notes. 7.30—Talk: The Soil of Denmark—Chalk and Lime. 8.0—Town Hall Chimes. 8.2—Fantasia on Workers' Songs (Emil Reesen).

on workers songs (chair Reesen).

8.10—"New Signals"—a Radio Play (Peder Nörgaard and Julius Bemholt).

9.5—Trio in G Major for Two Violins and 'Cello (Boccherini).

9.30—News Bulletin.

9.30—News Bulletin.
9.40—"Springtime in Denmark"—Programme by the Radio Orchestra, conducted by Emil Reesen, and the Lilly Ericson Vocal Quartet. with Readings by Tavs Neiiendam. 10.55—Dance Music from the Lodberg Restaurant. 12 midnight (in an interval)—Town Hall Chimes. 12.30 a.m. (Monday)—Close Down.

Gramophone Records.

12. 1000—
Selections from Sound Films on Gramophone Records.

12.30 p.m.

—Weather Forecast. 12.40—Sound Films on Gramophone Records.

12.30 p.m.

—Weather Forecast. 12.40—Sound Films on Gramophone Records.

2.0—Programme for Children.

2.0—Programme for Children.

3.0—Running Commentary on the Football Match France v. Belgium, relayed from the Heysel Stadium.

5.0—Concert by the Station Symphony Orchestra, conducted by Tavs Neinendam.

5.0—Concert by the Station Symphony Orchestra, conducted by Tavs Neinendam.

5.0—Concert by the Station Symphony Orchestra, conducted by Tavs Neinendam.

12.30—Running Commentary on the Evidence Restaurant. 12 midulght (in an interval)—Town Hall Chimes.

12.30 a.m. (Monday)—Close Down.

12.30 a.m

SUNDAY continued

FÉCAMP (France)

Radio Normandie. 1,364 kc/s (219.9 m.); 10 kW.
12 noon — Radio Announcements.
12.30 p.m.—News Bulletin. 12.45—
Sponsored Concert. 6.0—Dance
Music. 8.0—Concert of Popular 1,364 kc/s

Music. 9.0—Concert. 12.30 a.m. (Monday)—Dance Music. In the intervals, throughout the Evening, Fifty Minutes after each Hour, Election Results. 3.0 (approx.)—Close Down.

FRANKFURT-am-MAIN

(Germany)

770 kc/s (390 m.); 1.5 kW.
Relayed by Cassel, 1,220 kc/s
(246 m.).

Transmits at intervals from 6.15 a.m.
(Hamburg Relay).

11.0 a.m. — See Leipzig. 12 noon
— Gramophone Concert of Chassical
Music. 1.5—Choral Concert, preceded by a Talk on the Workers'
Sirging Moyement 2.0—Talks Music. 1.5—Choral Concert, pre-ceded by a Talk on the Workers' Singing Movement. 2.0—Talks arranged by the Wiesbaden Board of Agriculture. 2.10—Rural Pro-gramme—Two Talks. 3.0—Sec Stuttgart. 4.20 (Farm. Wiesbaden)—Concert by

gramme—Two Talks. 3.0—Sec Stuttgart.
4.30 (from Wiesbaden)—Concert by the Municipal Orchestra. Symphonic Poem, Korsholm (Järnefelt). Overture, "The Merry Wives of Windsor" (Nicolai). Waltz, A Summer Evening on the Rhine (Zimmer). Selection from "The Gipsy Baron" (Johann Strauss). March, Heil Europa (Blon).
5.30—Concertina Recital by Hermann Untik. 6.0—Astronomical Talk: The Heavens in May and June. 6.25—Talk (to be announced). 6.50—Thirty Gay Minutes. 7.20—Weather and Sports Notes. 7.35—10.35—See Stuttgart. 10.35—Time, Weather and News. 10.55—Light Music from Berlin (Witzsteben). 12 midnight (approx.)—Close Down.

HAMBURG (Germany)

Norag (ha, in Morse). 806 kc/s (372 m.); 1.5 kW. Relayed by Bremen, 1,112 kc/s (270 m.); Plensburg, 1,373 kc/s (218 m.); Planover, 530 kc/s (566 m.) and Kiel, 1,292 kc/s (232.2 m.).
Transmits at intervals from 6.15 a.m. (Bremen Harbour Concert).
11.0 a.m.—Talk: The Hagenbeck

II.O a.m.—Talk: Zoo after the War.

Zoo after the War.

11.30—See Leipzig. 12 noon—Astronomical Talk: The Stars in May.

12.15 p.m.—Time and Weather.

12.20 (from Hanaver)—Open Air Concert. 1.0—Concert from Berlin (Witzleben). 2.0—" Glass"—a Scientific Fairy Tale (Anne Rhees), with the collaboration of the Station

the collaboration of the Station Orchestra.
3.0—Violin Recital by Sonia Gramatte from her own Works. Sonata No. 1 in D Major for Violin and Pianoforte. Fugue expressive. A Festival in a Spanish Village. Elégie. Danse marocaine.
3:30—Report on the General Assembly (Landesgemeinde) in Appensell, Switzerland. 4:30—"In Praise of the Seasons"—Readings from the Works of Adalbert Srifter. Introduction and Commentary by W. Henneberg. 4:55 (from Kie)— Mr. Henneberg. 4.55 (from Kiel)—
Relay of the Second Half of the Final of the North German Football Championship, HSV Hamburg v. Holstein-Kiel. 5.45—Light Athletics—a Microphone Report by Karl Lerbs.

—a Microphone Report by Karl Lerbs.
5.55 (from Hanover)—Sacred Music from the Cathedral of Henry the Lion at Brunswick. Soloists:
Susanne Kasch (Soprano), Margarethe Horn-Linde (Contralto), Robert Schwiers (Violin) and Walrad Guericke (Organ). Mitten wir im Leben sind—Passacaghia and Fugue for Organ in C Sharp Minor (Ploner). Beruft Gott selbst—Duet for Soprano and Contralto with Violin and Organ (Bach). Concerto in D Minor for Violin and Organ (Tartini). Aria for Contralto: O hör mein Flehen (Händel). Aria for Soprano: O hätt' ich Jubals Harf (Händel). Duet for Soprano and Contralto with Violin and Organ (Bach). Prelude, Fugue and Chaconne in D Minor for Organ (Pachelbel).
6.55—Weather Report. 7.0—See Berlin (Witsleben) 7.50—Sports Report.

eport.
0—Tchaikovsky Concert conducted
by Richard Richter, relayed from
the Musikhalle. Soloist: Wolfgang
Hattenbach (Pianoforte). Overture,
Romeo and Juliet. Pianoforte Concerto in B Flat Minor. The Fifth

Symphony in E Minor. In the interval, News Bulletin.
10.0—Time, Weather and News.
10.10—Topical Talk. 10.20—Dance Music relayed from the Boccaccio.
11.10 (from Bremen)—Dance Music from the "Atlantik."

HEILSBERG (Germany) 1,085 kc/s (276.5 m.); 60 kW. Relayed by Danzig, 662 kc/s

HEILSBERG (Germany)

1,085 kc/s (276.5 m.); 60 kW. Relayed by Danzig, 602 kc/s (453.2 m.).

Transmits at intervals from 6.30 a.m. (Concert from Danzig).

11.30 a.m.—See Leipzig.

11.30 a.m.—See Leipzig.

12 noon—Concert by the Königsberg Opera House Orchestra, conducted by Werner Richter-Reichhelm.

Overture, "Peter Schmoll" (Weber). Suite No. 1 from "L'Arlésienne" (Bizet). Wedding Music (Jensen). Symphonic Poem, The Midday Witch (Dvorak). Overture, Scherzo and Nocturne from "A Midsummer Night's Dream" (Mendelssohn). Selection from "The Queen of Spades" (Tchaikovsky). Waltz, Frühlingsstimmen (Strauss).

2.0—m.—Chess Talk. 2.30—Talk for Young People: The Animals of the South American Primeval Forests. 3.0—Talk: Traffic Regulations and Safety. 3.30—Report on the General Assembly (Landesgemeinde), at Trogen in the Canton of Appenzell, Switzerland (on Gramophone Records). 4.30—See Breslau.

5.10—Concert by the Königsberg Opera House Orchestra, conducted by Karl Hrubetz. 6.5—Sports Notes: Riding. 6.15—Talk on the Krüger Polar Expedition: Is Dr. Krüger still alive? 6.40—Musical Diary for the Month of April. 7.00—See Berlin (Königs Wusterhausen). 7.50—See Berlin (Königs Wusterhausen). 7.50—See Berlin (Königs Wusterhausen). 7.50—See Berlin (Königs Wusterhausen). 7.50—See Berlin (Witzleben). 8.45 (from Danzig)—A May Day Variety Programme. 10.15—News Bulletin, followed by Dance Music from Berlin (Witzleben). 12.30 a.m. (Monday)—Close Down.

HILVERSUM (Holland)

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW.
8.40—10.40 a.m.—Programme of the Workers' Radio Society (V.A.R.A.).
8.40—May Day Chimes. 8.45—Organ Recital. 9.0—Address by Heer de Vries. 9.10—Organ Recital (contd.).
9.25—Recitations. 9.40—Selections by a Children's Choir. 9.55—Recitations. 10.10—Selections by a Children's Choir (contd.). 10.25—Address by Heer Zwertbroek.
11.10—12.40 p.m.—Programme of the Liberal Protestant Radio Society (V.P.R.O.). Divine Service from Haarlen.
12.40 p.m. till Close Down—V.A.R.A.

Haarlen. 12.40 p.m. till Close Down—V.A.R.A. Programme, 12.40—The Unveiling of the Beckers Monument at Maas-

of the Beckers Monument at Maastricht.

1.10—Septet Concert. (Schumann). Adagio (Haydn). Minuet (Bolzoni). Scherzando (Beethoven). Waltz, Du liebes Wien (Stolz). 1.40—Programme by the Amsterdam Modern Art Ensemble. 2.10—Concert (contd.). Potpourri, Quintessences (Morena). Waltz: Die Berge, die sind meine Heimat (Birkhofer). Adagio and Minuet frem the Septet in E Flat Major, Cp. 20 (Beethoven). Prelude (Rachmaninov). 2.40—Recitations. 3.10—Concert by the V.A.R.A. Philharmonic Orchestra, conducted by de Groot. (Soliosts: Nieland (Organ) and Wins (Harpsichord). Suite of Orchestra! Pieces by Johann Sebastian Bach, arranged for Orchestra, Organ and Harpsichord (Mahler). The Unfinished Symphony (Schubert). 3.55—Address. 4.10—Concert (contd.). Fantusia for Organ (Weber). Jubel-Ouvertüre (Weber). 3.30—See Vienna. 5.0—Concert (contd.). Overture, "Die Fledermaus" (Joh. Strauss). Waltz from "Der Rosenkavalier" (R. Strauss). Entry of the Guests into the Wartburg from "Tannhäuser" (Wagner). 2.5—Address. 5.40—Programme for Children. 5.5—Concert of the V.A.R.A. Mandoline Orchestra. March, Durch

for Children.
6.25—Concert by the V.A.R.A. Mandoline Orchestra. March, Durch Kampf zum Sieg (Translateur). May Fantasia (Kok). Minuet from the Symphony in B Flat Major. (Mozart). Mattinata (Leoncavallo). The Match Parade (Wehle).
6.50—Talk. 7.10—Choral Concert. 7.40—"Karl Marx"—A Play (Ernst Johansen). Recital by Reginald

Johansen).

8.55—Organ Recital by Reginald Foort of London. 9.40—Songs by Henri Marchand.

9.55—Orchestral Concert, conducted by Hugo de Groot. Spring Song (Mendelssohn). To Spring (Grieg).

Wiltz, O schöner Mai (Strauss). Gallop, Spring in's Feld (Strauss). Spring Suite (Nevin). 10.25—Topical Talk. 10.40—Concert

(contd.). Waltz, Frühlingsstimmen (Strauss). Der Lenz ist da (Hildach). Blumengeflüster (Blon). Spring Suite (Wesly).

11.40—Songs by Henri Marchand.
11.55—Address. 12.10 a.m. (Monday).—Gramophone Records of Variety Music. 12.40 (approx.)—Close

HUIZEN (Holland)

HUIZEN (Holland)

160 kc/s (1,875 m.); 8.5 kW.

9.10—10.10 a.m.—Religious Programme by the Christian Radio Society (N.C.R.V.).

10.10—5.40 p.m.—Programme of the Catholic Radio Society (K.R.O.).

10.10 a.m.—Gramophone Records of Light Music. 10.40—Mass from the Capucin Church at Tilburg. 12.25 p.m.—Talk: The Capucins in the Netherlands. 12.40—Sextet Concert. 2.20—Religious Instruction. 2.50—Literary Talk.

3.10—Concert by a Harp Ensemble.

Netherlands. 12.40—Sextet Concert.
2.20—Religious Instruction. 2.50—
Literary Talk.
3.10—Concert by a Harp Ensemble.
Rosa Spier (Harp). W. van Hoek
(Flute), Fernando Zepparoni (Violin), Louis Oostdam (Viola), and
C. van der Beek ('Cello). Concerts
royaux for Violin, 'Cello and Harp
(Couperin). Quartet in D Major
for Flute, Violin, Viola and 'Cello
(Mozart). Suite for Flute, Violin
and Harp (Goossens). Suite for
Flute, Violin, Viola, 'Cello and
Harp (d'Indy). Concert a cinq, for
Flute, Violin, Viola, 'Cello and
Harp (d'Indy). Concert a cinq, for
Flute, Violin, Viola, 'Cello and
Harp (Graph).
4.40—Programme for Invalids. 5.40
—8.25—N.C.R.V. Programme. 5.40
—Organ Recital. 6.30—Divine Service from a Church in Wessp.
8.25 till Close Down.—K.R.O. Programme. 8.25—Relay of the Catholic
May-Day Service from the Cathodral
of St. John, at Bois-le-duc. 9.40—
News Bulletin. 9.55—Talk on
Spiritualism. 10.20—Gramaphone
Records of Light Music. 11.20—
Epilogue by the Choir. 11.40
(approx.)—Close Down.

KALUNDBORG (Denmark)

Kalundborg Radio. (1,153 m.); 7.5 kW. See Copenhagen. 260 kc/8

KATOWICE (Poland)

734 kc/s (408 m.); 16 kW. Transmits at intervals from 10.25 a.m. Transmits at intervals from 10.25 a.m.
5.45 p.m.—Orchestral Concert. 8.15
—Concert of Popular Music. Soloist
Aniela Szleminska. 9.50—'Cello
Recital by Emmanuel Feuermann.
11.0—Dance Music.

LAHTI (Finland)

167 kc/s (1,796 m.); 54 kW. Re-layed by Helsinki, 815 kc/s (368.1

m.).
Transmits at intervals from 7.45 a.m.
II.0 a.m.—May Day Concert. 11.50
—Weather and Time. 12 noon—
Divine Service in Swedish, followed by Orchestral Concert. 5.10—Talk. 5.35—Recital of Songs. 5.59—
Time and Weather. 6.10—Talk on History. 6.40—Vocal Quartet Recital. 7.0—"Old Heidelberg"—(Meyer-Foerster), followed by Dance Music from the Grand Hotel. 11.0 (approx.) Close Down. Close Down.

LANGENBERG (Germany)

LANGENBERG (Germany)

Westdeutscher Rundfunk. 635 kc/s (473 m.); 66 kW.

Transmits at intervals from 7.0 a.m. (Hamburg Relay).

11.30 a.m.—See Leipzig. 12 noon—
Talk: The Rising of the Silk-Weavers of Lyons in 1831. 12.25—Talk on Spitzbergen. 12.50—Talk by Hans Ebert: The Music of the Week. 1.0—Orchestral Concert, conducted by Eysoldt. 2.30—German Shorthand Lesson. 2.50—Lesson in Chess. 3.25—Talk for Bec-keepers. 3.45—Talk on Music. 4.5—The World on Gramophone Records—May-Day Singing in West Germany. 4.30—Orchestral Concert conducted by Kühn. In the interval at 5.20—Relay of the Last Final of the West German Football Championship. 6.0—Talk: The Siebengebirge. 6.40—Talk: The Development of the Human Senses and Intellect.

tellect.
7,0—See Berlin (Königs Wuster-Sports Notes. 8.0 hausen). 7.50—Sports Notes. 8.0—See Berlin (Witzleben). In the interval at 10.15—News and Sports Notes. 12 midnight (approx.)—Close Down.

LEIPZIG (Germany)

1,157 kc/s (259 m.); 2 kW. Relayed by Dresden, 941 kc/s

(319 m.).
Transmits at intervals from 6.0 a.m.
11.30 a.m.—"Bisher habt ihr nichts gebeten in meinen Namen"—Cantata (Bach), by the Municipal and Gewandhaus Orchestras, the Choir

of St. Thomas' and Soloists. 12
noon—Talk: From Daumier to
Kathe Kollwitz. 12.30 p.m.—Concert
by the Leipzig Symphony Orchestra,
conducted by Hilmar Weber. 2.30—
Talk: The Week's Programmes.
2.50—Agricultural Notes. 3.0—Resperanto Lesson. 3.30—Report
on the General Assembly (Landesgemeinde) in Trogen, Appenzell,
Switzerland. 4.30—5.30—The Dansant by the Emdé Dance Orchestra.
5.45—Reading from "Vor dem Fenster" (Georg Rendl).
6.15—Recital of May-Songs and
Children's Songs by Elena Gerhardt. Spring Song (Mendelssohn).
Barcarolle (Rubinstein). May
Song (Beethoven). Komm lieber
Mai (Mozart). Three Songs (Schubert): (a) Gott im Frühling, (b) Das
Lied im Grünen, (c) Im Frühling,
Two Songs (Palmgren): (a) Mainacht, Op. 27, No. 4, (b) Abendstimmen, Op. 47, No. 1. Two
Songs (Brahms): (a) An die
Nachtigall, (b) Maienkätzchen, (c)
Meine Liebe ist grün. Das war
im ersten Lenzesstrahl (Tchaikovsky). Auf einer Wanderung
(Hugo Wolf). An den Frühling
(Grieg).
7.0—See Berlin (Königs Wusterhausen). 8.0—Topical Report. 8.15
—Sports Talk. 8.20 till Close Down
—See Berlin (Witzleben). 12 midnight (approx.)—Close Down.

LJUBLJANA (Yugoslavia)

LJUBLJANA (Yugoslavia)

522 kc/s (574.7 m.); 2.5 kW.
Transmits at intervals from 9.30 a.m.
4.45 p.m.—Humorous Programme.
5.0—Quartet Concert. 8.0—Duets
from Operettas. 8.45—Quintet
Concert. 10.0—Time Signal and
News Bulletin. 10.15—Concert of
Light Music.

LWÓW (Poland)

788 kc/s (381 m.); 16 kW. Transmits at intervals from 9.0 a.m. 7.0 p.m.—Miscellaneous Items. 7.25 —Talk. 7.45—See Warsaw. 12 might (approx.)—Close Down.

LYONS (France)

La Doua (PTT). 644 kc/s (465.8 m.); 1.5 kW.

8.0 a.m.—Review of the Paris Morning Press, relayed from Paris (Ecole Supérieure), 671 kc/s (447.1 m.). 12 noon—Relay from Paris (Ecole Supérieure). 7.15 p.m.—Sports Notes. 8.30—Election Results and Orchestral Concert. 2.0 a.m. (Monday)—Close Down.

MADRID (Spain)

Union Radio (EAJ7). 707 kc/s (424.3 m.); 2 kW.
9.0—10.30 a.m.—Topical Review.
3.0—4.30 p.m.—Chimes, Time, Theatre
Notes and Variety Concert. 8.0—9.30
—Chimes and Request Gramophone

Concert.
10.30—Chimes, Time and Concert:
Guitar Solos, Russian Songs by José
Angerri (Baritone) and Pianoforte
Solos by Margarita Albert. After
the Programme, Dance Music. 1.0
a.m. (Monday)—Chimes and Close
Down

MILAN (Italy)

Ente Italiano Audizioni Radio-foniche. 905 kc/s (331.5 m.); 7 kW.

MORAVSKÁ-OSTRAVA (Czechoslovakia)

Transmits at intervals from 6.30 a.m. 5.30 p.m.—See Prague. 8.5—See Bratislava. 10.35—Programme Announcements and Theatre Guide. 10.40—See Prague.

MOSCOW (Russia)

Trades Union. 230.1 kc/s (1,304 m.); 100 kW.

Transmits at intervals from 4.0 a.m. 8.0 a.m.—3.0 p.m.—The May Demonstration of Workers and Peasants, relayed from the Red Square. 8.0—10.0—Report on the 1st May Celebrations in French. 10.0 (approx.)—Close Down.

MUNICH (Germany)

Solvin (Scientify)

563 kc/s (533 m.); 1.5 kW.
Relayed by Augsburg and Kaiserslautern, 536 kc/s (560 m.); and
Nürnberg, 1,256 kc/s (239 m.).

10.0 a.m. (from Nürnberg).—Evangelical Service. 10.45—Chimes from
Our Lady's Church. 11.0—Chamber

SUNDAY continued

Music Concert with Introductory Talk by Dr. Ludwig Gerheuser. 11.30—May-day Concert. Choral and Orchestral Selections and Reci-

and Orchestral Selections and Recitations.

12.10 p.m.—Haydn Concert by the Station Orchestra, conducted by Hans Winter. 1.5—Time, Weather and Announcements. 1.15—Agricultural Talk. 1.35—Gramophone Variety Concert. 2.30—Chess for Beginners. 3.10—Programme for Women: "Maria im Mai." Selections for Speaker, Soprano, Violin, Flute and Children's Choir. 3.30—See Leipzig. 4.30—Violin and Pianoforte Recital.

5.5 (from Nümberg)—Concert by the Mixed Choir of the Institute for the Blind. 5.30—Talk: Music, Song and Dance in Ancient Egypt. 6.0—Concert. Soloist: Guido Gialdini (Siffleur). 6.40—Programme for Workers. 7.0—Weather and Sports Notes.

Workers. 7.0—Weather and Sports Notes. 7.10—Bavarian Literature in 1932—the Goethe Year. Foreword by Thomas Mann, and Readings from their own Works by W. E. Süsskind, Manfred Sturmann and Josef Ponten. 8.0—See Berlin (Witzleben). 10.20—Time, Weather and News. 10.45—Orchestral Concert, conducted by Erich Kloss.

OSLO (Norway)

OSLO (Norway)

Kringkastingselskapet. 277 kc/s (1,083 m.); 60 kW. Relayed by Fredriksstad, 816 kc/s (367.6 m.); Hamar, 536 kc/s (560 m.); Notodden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (453.2 m.); and Rjukan, 671 kc/s (447.1 m.).

10.30 a.m.—Dedication of the New Church at Volda by Bishop Fleischer, relayed from Adlesund, 671 kc/s (447.1 m.).

5.0 p.m.—Pianoforte Recital by Mary Barrat Due. 5.30—Talk (to be announced). 6.0—Concert by the Haaland Orchestra, conducted by Ingebret Haaland. Soloist: Willy Johansen (Violin). 7.0—Parliamentary Review. 7.15—Weather Forecast and News Bulletin. 7.30—Song Recital by M. Reidar Kaas. 8.0—Time Signal. 8.1—Programme for Workers. 9.40—Weather and News Bulletin. 10.0—Topical Talk.

10.15—Concert by the Station Orchestra, conducted by Hugo Kramm. Festival Polonaise (Svendsen). International Suite (Tchaikovsky). När fjordene bläner (Paulsen). Romance (Rubinstein). Potpourri (Rechtenwald).

11.0—Dance Music on Gramophone Records. 12 midnight (approx.)—Close Down.

PALERMO (Italy)

Ente Italiano Audizioni Radio-foniche. 554 kc/s (542 m.);

3 kW.
10.40 a.m.—Sacred Music. 11.5—
Agricultural Report. 12.45 p.m.—
Giornale Radio. 1.0—2.0—Concert of
Light Music. In the interval at
1.30—Time, Announcements and

Weather.
5.30—6.30—Light Music and Dance Music relayed from the Olympia Tea-Room. Sports Notes in the intervals.
8.0—Announcements and Giornale Radio. 8.20—Sports Notes. 8.25—Light Music on Gramophone Records. In the interval at 8.30—Time Signal and News Bulletin.
8.45—Symphomic Commonwealth of the Room o

and News Bulletin.

8.45—Symphony Concert conducted by A. La Rosa Parodi. Overture, "Le baruffe chiozzotte" (Sinigaglia). Symphonic Variations (Elgar). Talk on Art by G. Maggiore. Overture, "Le donne curiose" (Wolf-Ferrari). Selections from "El amor hrujo" (Falla). Largo (Guiseppe Mulè). Dances from "Prince Igor" (Borodin). After the Programme, Theatre Notes and Programme of Songs. 10.55—News Bulletin.

PARIS (France)

PARIS (France)

Eiffel Tower (FLE). 207.5 kc/s (1,445.7 m.); 13 kW.

Time Signals (on 2,650 m.) at 10.26 a.m. and 11.26 p.m. (preliminary and 6-dot signals);

1.0 p.m.—News Bulletin. 1.10—Weather Forecast.

1.20—Symphony Concert conducted by Edouard Flament. Soloists: M. Bruniau (Clarinet), M. Flament (Pianoforte) and M. Manouvrier (Flute). Rhapsody in Blue for Clarinet and Pianoforte (Gershwin). Andante quasi lento from the Quintet for Flute and Strings (E. Flament). Selection from 'La Vie Parisienne' (Offenbach-

Chapelier). Waltz: Wine, Woman and Song (Joh. Strauss).
6.45—Le Journal Parlé.
Programme for Children.
Weather Forecast.
8.30—Gramophone Concert of Italian Opera Music and Light Music.
10.0 (approx.)—Close Down.

PARIS (France)

Poste Parisien. 914 kc/s (328.2 m.); 1.2 kW.

Poste Parisien. 914 kc/s (328.2 m.);
1.2 kW.
12 noon—Gramophone Records, News and Announcements. 12.15 p.m.—
Light Music on Gramophone Records.
1.45—News and Announcements.
2.0—6.45—Interval. 6.45—News and Announcements.
7.0—Gramophone Records, Talk and News.
7.30—Concert of Popular Music on Gramophone Records, Talk and News.
8.30—Gramophone Records, Talk and News.
8.45—Vocal and Orchestral Concert.
Prelude to "Le Chemineau" (Leroux). Waltz, Du und Du (Johann Strauss). Chants russes, for 'Cello and Orchestra (Lalo). "Peer Gynt" Suite (Grieg): (a) Morning, (b) Anitra's Dance, (c) Death of Aase, (d) In the Hall of the Mountain King. Serénade à Mabel from "Scenes écossaises" (Godard). Ballet Music from "La Cigale" (Massenet). Selections from "Children's Corner" (Debussy): (a) Jimbo's Lullaby, (b) The Snow is dancing, (c) Doctor Gradus ad Parnassum.
Waltz, Liebeslieder (Brahms). Ronde française (Boëllmann).
10.45—News Bulletin. mann).

10.45—News Bulletin.
(approx.)—Close Down.

(approx.)—Close Down.

PARIS (France)
Radio-Paris (CFR). 174 kc/s
(1,725 m.): 75 kW.

7.45 a.m.—Gramophone Records. Selection from "Dedé" (Christiné).
Selection from "Le Chemin du Paradis" (Heymann).
s.o.—News, Weather and Press Review. 8.30—Physical Culture Lesson.
10.20—Book-keeping Lesson. 10.40—Spanish Lesson. 12 noon—Religious Address by the Reverend Father Dassonville.
12.20 p.m.—Sacred Music. Andante from the Symphony No. 4 (Widor). Fantasia in G Minor (Bach).
12.30—Bilboquet. 12.45—Press Review, News and Weather. 1.0—Variety Music on Gramophone



REMARKABLE SELECTIVITY-

INFINITE RANGE-SUPERLATIVE TONAL QUALITY.

"The Wireless World" says :-

"On test the receiver proved to be highly selective.

"The quality of reproduction reached a high standard.

"The high and low notes were well balanced."

"The sensitivity is ample for the reception of the weakest stations."

Demonstrations without obligation; at home or in our showrooms. G. & H. Receivers - Radiograms and Chassis. Literature on request. Write Dept. B.I.



HALFORD RADIO LTD.

Sales distributors for Gambrell Radio Ltd. Telephone: Regent 7136/7

39, Sackville Street, London, W.1.



Records. 1.30—Popular Gramophone Concert. 2.0—Concert of Decca Records. 6.45—Variety Concert on Gramophone Records. 7.45—Radio Paris Circus. 8.15—News, Sports Notes, Press Review and Weather Report. 8.30—Variety Music on Gramophone Records. 9.15—Press Review and News. 9.30—Popular Concert — "Through Europe."

POZNAŃ (Poland)

806 kc/s (335 m.); 1.9 kW.

Transmits at intervals from 10.15 a.m.
7.0 p.m.—Miscellaneous Items and
Announcements. 7.15—Light Music
on Gramophone Records. 7.45—
10.40—See Warsaw. 10.40—Sports
Notes and Police Report. 10.50—
Dance Music relayed from the
"Esplanade" Café. 12 midnight
(approx.)—Close Down.

PRAGUE (Czechoslovakia)

PRAGUE (Czechoslovakia)

614 kc/s (488.6 m.); 120 kW.
Transmits at intervals from 6.30 a.m.

10.30 a.m.—Programme in Honour
of Anton Dvorák. Mass (Suk) by the
Krizkovsky Male Voice Choir and
the Teachers' Choir and Orchestra.

11.0—Dvorák Concert. 12 n00n—
Chimes.

12.5 p.m.—Variety Concert. 1.5—
Agricultural Report: 1.35—Agricultural Report from Brno.

1.50—Talk: Social Institutions. 3.30

—Choral Concert. 4.0—Concert,
relayed from the Josefovsky Restaurant, Brno. 5.30—Programme.

7.0—Concert by the Typographia
Choral Society. 8.0—Announcements.
8.5—See Bratislava. 9.0 (in the
interval)—Time and News. 10.35—
Miscellaneous Announcements. 10.40

—Variety Music on Gramophone
Records.

RADIO-SUISSE ROMANDE (SOTTENS) (Switzerland)

743 kc/s (403 m.); 25 kW.; Lausanne, 442 kc/s (680 m.); and Geneva, 395 kc/s (760 m.). 9.45 a.m. (from Lausanne)—Protestant Service Relay. 11.0 (from Lausanne)—Light Music on Gramophone Records. 12.30 p.m.—Weather Forecast and News Bulletin. 12.40—Concert by the Station Orchestra, conducted by Fernand Clossett. 2.0—5.30—Interval.

conducted by Fernand Clossett. 2.0.

5.30—Interval.

5.30—Orchestral Concert. (6.30 (from Fribourg)—Religious Address and Sacred Songs. 7.25 (from Lausanne)—Sports Notes. 7.30—Programme for the Festival of Lehout (a) Concert from Lausanne, (b) Talk from Geneva.

8.30—Concert by the Station Orchestra, with Interludes by Mme. Camille Fournier of the Comedy Theatre. 10.0—Weather and News Bulletin. 10.15 (approx.)—Close Down.

RIGA (Latvia)

RIGA (Latvia)

572 kc/s (525 m.); 15 kW.
Transmits at intervals from 9.0 a.m.
530 p.m.—Choral Concert of Latvian Songs. 6.0—Agricultural Talk.
6.30—Programme on the occasion of the Twelfth Anniversary of the Constitutional Assembly of Latvia Talk by Spricis Paegle, and Vocal and Orchestral Concert of Popular Latvian Music. 8.0—News Bulletin.
8.20—Orchestral Concert. Selections from (a) "Pique Dane" (Suppé), (b) "Berlin wie es lacht und weint" (Conradi). (c) "Lysistrata" (Lincke), (d) "Die schöne Galathee" (Suppé), (e) "Orpheus in the Underworld" (Offenbach), and (f) "Flotte Bursche" (Suppé), 0.0—Weather and News. 9.35—Old Dance Music. 10.0—Modern Dance Music. 11.0 (approx.)—ROME (Italy)

ROME (Italy)

Ente Italiano Audizioni Radiofoniche (1RO). 680 kc/s (441 m.);
50 kW. Relayed by Naples,
941 kc/s (319 m.), and 2RO,
11,810 kc/s (2-4 m.).
9 45 a.m.—Agricultural Notes. 10.0—
Bible Reading. 10.15—Gramophone
Records of Sacred Music. 10.45—
Sports Notes and Amusement Guide.
11.0—Talk: Dante's Rome, relayed from the "House of Dante."
12 30 p.m.—Concert of Light Music.
130—Time and Announcements.
4-15 (from Naples)—Programme for Children, Weather and Sports Notes.
50—Symphony Concert or Concert of Chamber Music. Sports Notes in the interval. 7.25 (from Naples)—Shipping. 7.30—Football Results, Announcements and News. 8.0—
Time, Announcements and Gramophone Records of Variety Music.
8.30—Sports Review.

8.45—Variety Concert. Soloists:
Margherita Cossa (Soprano) and
Tito Rosati ('Cello). Prelude and
Fugue (Bach). Soprano Solos:
(a) Ah, perfido I (Beethoven), (b)
Lia's Aria from "L'enfant prodigue" (Debuscy). Marcia dei
giullari (Peroni).
9.30—"Chiodo scaecia chioclo"—
Comedy in One Act (Achille Torelli).
10.15—Concert (continued). Overture
"The Bartered Bride" (Smetana),
'Cello Solos: (a) Elégie (Fauré),
(b) Scherzo (van Goëns). Vocal and
Instrumental Selections from "Cendrillon" (Massenet). 10.55—
News Bulletin.

SCHENECTADY (U.S.A.)

General Electric Company (WGY).
790 kc/s (379.5 m.); 50 kW. Relayed at intervals by W2XAF on
9,530 kc/s (31.48 m.) and by
W2XAD on 15,340 kc/s (19.56 m.).
Transmits at intervals from 1.0 p.m.
8,30 b.m.—6.0 a.m. (Monday)—New
York Relay. 8,30—National Sunday
Forum. 9.0—Musical Programme.
9,15—lodent Programme. 9,30—
Musical Programme. 9,30—
Musical Programme. 10,30—General
Electric Circle.
11.0—Catholic
Hour. 11.30—Melody Trail. 12
midnight—L'Heure Exquise.
12.15 a.m. (Monday)—Rexall Radio
Party. 12.30—Orchestral Gems;
1.0—Chase and Sanborn Programme!
2.0—David Lawrence Talk. 2.15—
American Album of Familiar Music.
2.45—The Buick Revellers.
3.0—Musings. 3,15—Talk: "What
would You do?"
3.20—National Oratorio Society. 3,45
—Sunday at Seth Parker's. 4,15—
Ralph Kirbery, the dream singer.
4,30—Jesse Crawford (Organ). 5,0—
Palais d'Or Orchestra. 6.0 (approx.)—
Close Down.

SCHWEIZERISCHER LANDESSENDER (BERO-MÜNSTER) (Switzerland)

LANDESSENDER (BERO-MÜNSTER) (Switzerland)
653 ke/s (459 m.); 60 kW.;
Basle, 1,229 ke/s (244.1 m.); and
Berne, 1,220 ke/s (244 m.)
10.30 a.m. (from Berne)—Protestant
Address. 11.15 (from Berne)—Concert
of March Music by the Hägendorf Musical Society, conducted by
M. Jaeggi. 11.50 (approx.)—Choral
Concert on Gramophone Records.
12.28 p.m.—Time Signal and Weather
Forecast. 12.30—News Bulletin.
12.40—Concert by the Station Orclestra. 1.45—3.0—Interval. 3.0
(from Berne)—Humorous Reading.
3.25 (from Berne)—Concert by the
Berne Mandoline Orchestra from
the Works of Richard Amon.
4.30—Song Recital by Franz Volker
on Gramophone Records. 5.0—Dance
Music on Gramophone Records.
5.30—5.30—Interval.
6.30 (from
Berne)—Reading: "The Legend of
the Glacier Giant in the Bernese
Oberland" (Jegerlehner).
7.25—Sports Notes. 7.28—
Time Signal and Weather Forecast.
7.30 (from Berne)—Talk: The Improvement in the Economic and
Social Position of the Worker during
the Last Fifty Years.
8.0 (from Zürich)—Chocal and Orchestral Concert. The Tramways'

the Last Fifty Years.
8.0 (from Zürich)—Choral and Orchestral Concert. The Tramways' Choral Society, conducted by Rudolf Schoch. The Wireless Orchestra, conducted by Ewin Gilbert. Soloist: Vera Liessem (Recitations). 9.15—Concert of Popular Music by the Station Orchestra, conducted by Erwin Gilbert. 10.0—Weather Forecast, News and Sports Notes. 10.15 (approx.)—Close Down.

STOCKHOLM (Sweden)

Radiotjänst (SASA). 689 kc/s (436 m.); 55 kW. Relayed by Boden, 244 kc/s (1,229.5 m.); Göteborg, 932 kc/s (322 m.); Hörby, 1,166 kc/s (257 m.); Motala, 222.5 kc/s (1,348 m.); Ostersund, 389 kc/s (770 m.); and Sundsvall, 554 kc/s (542 m.).

Ostersand, 380 kc/s (770 m.); and Sundsvall, 554 kc/s (542 m.).

10.30 a.m.—Programme for Workers.

11.0—Divine Service. 12.45 p.m.—Weather Forecast. 12.55—Time Signal. 3.0—Talk in German: Austria in May. 3.20—Soloist Concert from Góteborg. 4.0—Programme for Children. 4.30—Reading. 5.0—Evensong, from Lund. 6.0—Recital of Student Songs, relayed from Mahmö, 1,301 kc/s (231 m.). 6.45—Concert. Flute Solos: (a) Melody (Gluck), (b) Polonaise and Badimerie (Bach). Pianoforte Solos: (a) Böljesäng (Alfvén), (b) Two Concert Etudes (Backer-Gröndahl). Flute Solo: Le Carnaval de Venise (Genin).

7.15—Weather and News. 7.30—Talk by Axel Ahlman.

8.0—Orchestral Concert. 9.15—A Play in One Act (Herbert Grevinius).

SUNDAY continued

9.45—Weather and News. Concert of Light Music. (approx.)—Close Down.

STRASBOURG (France)

Radio-Strasbourg (PTT). 869 kc/s (345 m.); 11.5 kW. 0.45 a.m.—Protestant Service. 11.30 Rogs 1343
10.45 a.m.—Protestant Service.
12 noon—
Variety Music on Gramophone
Records.
12.45 p.m.—News in
French and German. 1.0—Time
Signal.
1.2—Popular Gramophone
Music.
2.0—Agricultural Talk in

German.
2.15—Gramophone Dance Music.
3.45—Light Music on Gramophone Records.
4.30—Talk in German: Old and Modern Architecture in Alsace.
4.45—Agricultural Talk in French.
5.0—Dance Music.
6.0—Medical Talk in French.
6.15—Sports Notes.
6.20—Sports Talk in French.

Medical Talk in French. 6.15—
Sports Notes. 6.20—Sports Talk in French.
6.30—Orchestral Concert conducted by Maurice de Villers. 7.30—Time Signal. 7.32—News in French and German. 7.45—Orchestral Concert conducted by Maurice de Villers.
8.30—Concert by the Augmented Municipal Orchestra and the St. William Choir conducted by Paul. Bastide and Fritz Munch relayed from the Palais des Fêtes. Soloists: Mune. Vincent of Amsterdam (Soprano), Mme. Debonte (Contralto), M. Bauer of Geneva (Tenor) and M. Peter (Baritone). Part I. Overture, "Carnaval romain" (Berlioz). Symphonic fantastique (Berlioz). Part II. The Ninth Symphony (Beethoven). 12 midnight (approx.)—Close Down.

STIITTGART (MÜHL-

STUTTGART (MÜHL-

ACKER) (Germany)

Süddeutscher Rundfunk. 832 kc/s
(360-5 m.); 60 kW. Relayed by
Freiburg, 527 kc/s (570 m.).

Transmits at intervals from 6.15 a.m.
(Hamburg Relay).

11.30 a.m.—See Leipzig. 12 noon—
Historical March Potpourri on
Gramophone Records. 1.0 p.m.
(from Mannheim)—Topical Talk.

1.15—Aria and Duet Recital by
Elisabeth Jentsch (Soprano) and
Karl Jautz (Tenor). Soprano
Solo: Aria from "Lakmé" (Delibes). Tenor Solo: The Dream
from "Manon" (Massenet). Soprano Solo: Arietta from "Mirella" (Gounod). Tenor Solo:
Aria from "Carmen" (Bizet).

1.45—Choral Concert, relayed from
the Wilhelma Theatre. 2.30—Agricultural Talk. 3.0—Programme for
Children. 3.30—Radio Report on
the General Assembly (Landesgemeinde) at Trogen in the Canton of
Appenzell, Switzerland. 4.30—6.0—
See Frankfurt. 6.0—Authors' Programme—Jakob Schafiner.
6.25—Chamber Music by Ferdinand
Merten (Cello) and Hans Brome
(Pianoforte). Sonata in F Sharp
Minor, Op. 1 (Pfitzner). Sonata in
F Major, Op. 6 (Richard Strauss).
7.25—Sports Notes.
7.35—"Minna von Barnhelm"—
Comedy (Lessing), by the "Spielgemeinschaft des Westens," Berlin,
under the direction of Willy Buschoff.
Agnes Straub in the role of Minna.

9.0—Spring Concert by the Philharmonic Orchestra, conducted by
Emil Kahn. Overture, Amid
Nature (Dvorák). On hearing the
Frist Cuckoo in Spring (Delius).
Frühlingsbilder (Strässer). Good
Friday Magic from "Parsifal"
(Wagner). Overture, In the
Springtime (Goldmark).

10.5 (from Freiburg)—Popular Viennese Music from the Works of
Schrammel by the Vienna Schrammel-Quartet. March, ViennaBerlin. Waltz, Weana Gmüat.
Two Viennese Songs (a) Der
Frieden auf Erden, (b) s Herz
von an echten Weana. March,
Dornbacher Hetz. Waltz, AltWienerisch. Viennese Song, Der
Schwalbe Gruss. Two Marches:
(a) Kunst und Natur, (b) Wiener
Künstler.

10.35—Denne Music from
Berlin (Witzleben). 12 midnight
(approx.)—Close Down.

TOULOUSE (France)

Radiophonie du Midi. 779 kc/s (385 m.): 8 kW.
12.30 p.m.—Catholic Service. 1.0—
Overture, "William Tell" (Rossini).
1.15—Chansonnettes. 1.30—Agricultural Report. 1.45—Protestant Service. 5.0—Esperanto Lesson. 5.15—
Military Music. 5.30—News Bulletin. 5.45—Symphony No. 34 in C (Mozart).

6.0—Songs from "Carmen" (Bizet) and "Cavalleria rusticana" (Mas-

and "Cavalleria rusticana" (Mascagni).

6.15—Accordion Solos. 6.30—News Bulletin. 6.45—Concert of Operatic and Light Music. In the interval at 7.30—News.

8.15—Songs from (a) "La Bohême" (Puccini), (b) "L'enfant prodigue" (Debussy) and (c) "La Tosca" (Puccini).

8.30—Military Music. 8.45—Accordion Solos. 9.0—Light Music. 9.15—Dance Music.

9.30—Orchestral Selections from "Carmen" (Bizet) and "Louise" (Charpentier).

9.45—Selections by an Argentine Orchestra. 10.0—Orchestral Music and Songs. 10.30—News Bulletin. 10.45—Musical Programme. 11.0—Chansomettes. 11.15—North African News. 11.30—Symphony No. 7 (Beethoven). 12 midnight—Weather, Announcements and Close Down.

TRIESTE (Italy)

Ente Italiano Audizioni Radio-foniche. 1,211 kc/s (247.7 m.); io kW.

0.40 a.m.—12.20 p.m.—See Turin. 12.20—German Lesson on Gramo-phone Records. 12.30—7.5—See

Turin.
7.5—Quintet Concert. Overture,
"Tutti in Maschera" (Pedrotti).
Silvana (Gramantieri). Waltz,
Wienerblut (Johann Strauss). Decidiamoci (Mariotti). Selection
from "Cavalleria Rusticana" (Mascagni). Rosalba (Lavazza). Bionde
sartine (Caviglia).
8.0 till Close Down—See Turin.

TURIN (Italy)
Ente Italiano Audizioni Radiofoniche. 1,096 kc/s (273.7 m.);
7 kW. Relayed by Milan, 905 kc/s
(331.5 m.); Florence, 599 kc/s
(500.8 m.), and Genoa, 959 kc/s (312.8 m.).

Chimes and Missa Cantata from the Cathedral of San Giusto. 11.0—Religious Programme. 11.20—Agricultural Notes. 12:30-m.—Concert of Light Music. 1.0 (in an interval)—Time and Annouscements.

12:30-p.m.—Concert of Light Music.
1.0 (in an interval)—Time and
Announcements.
4.0—Football Results.
4.10—Concert by the Turin Railway Band. In
the intervals: Notes on Sport and
Art. 5.40—Dance Music from the
Fiaschetteria Toscana. 6.15—Giornale Radio and Sports Notes. 6.25—
Topical Review. 7.0—Football
Report. 7.5—Announcements. 7.10—
Musical Selections. 7.30—Time and
Announcements.
7.31—Gramophone Records of Variety Music.
8.0—Giornale Radio and Sports Notes.
8.20—Concert of Light Music.
9.0—"I Puritani"—Opera in Three
Acts (Bellini). In the intervals:
Reading of Poems, Theatre Notes
and Giornale Radio. News after the
Programme.

VIENNA (Austria)

VIENNA (Austria)

Programme.

VIENNA (Austria)

Radio-Wien. 581 kc/s (517 m.);
15 kW. Relayed by Graz, 852 kc/s
(352.1 m.); Innsbruck, 1,058 kc/s
(283 m.); Klagenfurt, 662 kc/s
(453.2 m.); Linz, 1,220 kc/s
(246 m.); and Salzburg, 1,373 kc/s
(218 m.).
0.25 a.m.—May-Day Festivities—a
Report from the Tower of the Town
Hall, followed by Fanfare and Call.
0,40—Work and the Joy of Life in
Song—Concert by a Children's Choir.
10.5—Talk: The International Organisation of Work.
10.35—National Anthem by the Volk-soper Choir. 10.40—Symphiony Concert, conducted by Anton Webern.
Soloist: Dr. Oscar Adler (Violin).
11.45—"Dances from Austria"—
Concert by the Vienna Symphony Orchestra. March (Fux). Ochsenmenuett (Haydn). Mödlinger
Tanze (Beethoven). German
Dances (Schubert-Webern). Annen-Polka (Johann Strauss). Merry
Marches (Krenek). Waltz from
"Der Rosenkavalier" (Rich.
Strauss). Dances from Austria (Bittner). Polka and Waltz from
"Der Taugenichts von Wien"
(Salmhofer). Festlicher Marsch
(Wellesz).
1.15 p.m.—Folk Song Recital by Hede
Fischer (Soprano) and Fritz Lunzer
(Bass). 3.c—Time and Announcements.
3.5—Readings' of Topical Interest.
3.30—Chamber Music by the
Majrecker Ouartet. String Ouartet.

ments. 3.5—Readings of Topical Interest.
3.30—Chamber Music by the Mairecker Quartet. String Quartet in G Major, Op. 161 (Schubert). Italian Seronade (Hugo Wolf).
4.30—Talk: The May Day Fes-

vities.

O—Orchestral Concert. March, Immer voran (Leopoldi). Overture, "Irrfahrt ums Gück" (Suppé). Kometen-Walzer (Zeller). Prelude to the Third Act of "Aschenbrödel" (Johann Strauss). Ro-Concert. March.

mance (Svendsen). Potpourri, Five O'Clock Tea with Robert Stolz (Dostal). Waltz, Weana Madln (Ziehrer). Song, Frauenaugen sind gefährlich (Straussellen Gestein from "The Land of Smiles" (Lehar). Overture, "Frühlingsluft" (Josef Strauss-Reiterer). Arbeiterfest-

"The Land of Smiles" (Lehar).
Overture, "Frühlingsluft" (Josef Strauss-Reiterer). Arbeiterfestmarsch (Rey)
6.30—"The Song of Freedom"—
Programme of Recitations and Songs.
6.55—Pianoforte Recital by Eduard Steuermann. 7.30—"Time and Announcements.
7.40—"The Life of Mr. Fischer"—A History in Five Acts (Heinz Graumann). 10.0—News Bulletin. 10.15—Dance Music with Vocal Refrains.

WARSAW (Poland)

WARSAW (Poland)
Polskie Radio. 212.5 kc/s (1,411 m.); 120 kW.
9.0 a.m.—Mass, and Organ Recital, relayed from Wilno, 533 kc/s (563 m.).
10.0—Easter Service, relayed from the Wallachian Church, Luctur. 11.58
—Time Signal and Bugle Call from the Tower of St. Mary's Clurch, Cracow. 12.5 p.m.—Programme Announcements. 12.10—Weather Report.

Cracow. 12.5 p.m.—Programme Announcements. 12.10—Weather Report.
12.15—Symphony Concert by the Warsaw Philharmonic Orchestra, conducted by F. Rybicki. Soloists: Mme. Korska (Soprano) and Alex Wielhorsky (Pianoforte). Symphonic Poem, Phaeton (Saint-Saëns). Pianoforte Concerto in C Minor (Saint-Saëns). Songs: (a) Invitation.au Voyage (Duparc), (b) Les Violettes (Dubois), (c) L'Attente (Saint-Saëns). (d) Aria from "Le Cid" (Massenet). Symphony in D Minor (Franck). 2.0—Agricultural Talk. 2.20—Relay from Luów. 2.40—Talk: Hail—an Atmospheric Phenomenon. 3.0—Programme relayed from Luów. 3.55—Programme for Children. 4.20—Light Music on Gramophone Records. 4.40—Talk: The Importance of China in the Feminine World. 4.55—Popular Music on Gramophone Records. 5.15—Taik: The Last of the Dzialynskys. 5.30—Talk on Language. 5.45—Concert by the Station Orchestra, conducted by Josef Oziminsky, André Kalinowsky (Clarinet), and Louis Urstein (Pianoforte). News in the Interval. 7.0—Misscellaneous

sky, André Kalinovsky (Clarinet), and Louis Urstein (Pianoforte). News in the Interval. 7.0—Miscellaneous Items. 7.25—Light Music on Gramophone Records. 7.40—Programme Announcements. 7.45—"The Old Huxband"—Sketch (after Korzeniovalus).

Alliodicelles. Ag. After Korzeniovsky).

the Station Orchestra. conducted by Josef Oziminsky. Scloists:
A. Szleminska (Soprano) and A. Bromte (Trumpet). Overture,
"Bajka" (Moniuszko). Overture,
"Bajka" (Moniuszko). Trumpet
Solo: Evening Song (Moniuszko). Mazurka from "The Siren"
(Maliszevsky). Songs: (a) The Cuckoo (Moniuszko), (b) Convertie (Moniuszko), (c) Popular Venetian Song (Troszel). Italian Ballet (Gabutti). Songs: (a) Popular Neapolitan Songs, (b) La Rosa (Mercadante). Ballet Suite, Nuit de Printemps (Chapuis). Songs: (a) Popular Venetian (Mercadante). Ballet Suite, Nuit de Printemps (Chapuis). Songs: (a) Popular Neapolitan Songs, (b) La Rosa (Mercadante). Ballet Suite, Nuit de Printemps (Chapuis). Songs: (a) Popular Venetian (Mercadante). The Tumper (Chapuis). Songs: (a) Popular Neapolitan Songs, (b) The Rose and the Nightingale (Rimsky-Korsakov). Two Dances from "The Demon" (Rubinstein). 9.55—Literary Programme: Reading from "The Flag on the Mast" (Ostrovsky).

(Ostrovsky).

9.50—Violoncello Recital by Emanuel Feuermann, with Pianoforte accompaniment by Louis Urstein. Sonata in A Minor for 'Cello and Pianoforte (Schubert). Kol Nidrei (Bruch). Allegro appassionato (Saint-Saëns).

10.40—Weather and Police Notes.

10.45—Sports Notes. 10.55—Interval. 11.0—Dance Music. 12 midnight (approx.)—Close Down.

WILNO (Poland)
533 kc/s (563 m.); 16 kW.
Transmits at intervals from 9.0 a.m.
7.0 p.m.—Literary Programme. 7.20
—Educational Talk. 7.40—Programme Announcements. 7.45—See
Warsaw. 12 midnight (apprex.)—
Close Down.

ZAGREB (Yugoslavia)

ZAGREB (Yugoslavia)
977 kc/s (307 m.); 0.75 kW.
10.0 a.m.—Divine Service Relay and
Sacred Music. 12 noon—Overtures
and Opera Selections on Gramophone
Records. 1.0—5.0 p.m.—Interval.
5.0—Dance Music on Gramophone
Records. 6.30—7.30—Interval. 7.30
—Announcements. 7.45—Talk: The
Chinese Home and the Chinese
Housewife. 8.5—Talk in connection
with Radium Week. 8.30—Orchestral
Concert. Soloist: Desider Halasz
(Baritone). 10.30—News and
Weather. 10.40—Dance Music.
11.0 (approx.)—Close Down.

Germany. Sheltered as it is between the Odenwald and the hills of the Pala-tinate on the other side of the Rhine

Plain, the blossom appears here a fort-

PRINCIPAL EVENTS

MONDAY (May 2)

SYMPHONY CONCERTS

8.10 p.m. Radio Suisse Romande: Conductor, Ansermet.

8.50 - ,, Huizen. 9.0 Italian stations.

CONCERTS (Vocal and Instrumental)

Hamburg, Breslau: Weber programme 7.20 p.m. Budapest: Choir and Orchestra.

Brussels No. 2 (9.0 p.m. No. 1): The

new Radio Orchestra. 7.40 8.0

8.0

8.0 8.15

Radio-Paris.
Vienna: Vocal Duets with Orchestra.
Copenhagen: Lange-Müller programme.
Langenberg: Contemporary Sacred Choral Music.

9.0 Schweizerischer Landessender: Operetta programme.

Strasbourg. 9.30

OPERAS AND OPERETTAS

7.35 p.m. Munich: "La Bohème" (Puccini).
8.0 , Leipzig: "The Corregidor" (Wolf).
8.0 , Berlin (Witzleben): "Tiefland" (D'Albert).

Stockholm, Oslo: "Carmen" (Bizet).
Palermo: "Aida" (Verdi) (gram.). 8.0 9.0

CHAMBER MUSIC

8.10 p.m. Bucharest: Quartet, Op. 132 (Beethoven). " Copenhagen: (Dvorak). 9.15 Quintet, Op.

TALK

9.0 p.m. Hamburg: "Humour in Shakespeare."

DANCE MUSIC

10.15 p.m. Vienna.

Spring on the Bergstrasse

On Monday, at 7.25, Paul Laven, the well-known Frankfur speaker, is giving a talk from the famous Bergstrasse, which will take the form of conversations with local foresters and innkeepers. They will be invited to give their impressions of the tourists and hikers of this and the last generations. The Bergstrasse, the road which skirts the hills of the Odenwald between Darmstadt, the capital of Hesse, and the romantic medieval University town of Heidelberg, is known as the flower-garden of



Desiré Befauw

night earlier than in South Germany generally, and is already attracting its annual stream of visitors. Brussels' New Orchestras

For the augmented programmes which the Brussels stations are now to give, a reorganisation of the orchestra and the creation of a new one have

been necessary. new orchestra, which is to make its twofold debut this evening-at 8 o'clock from BRUSSELS No. 2 and at 9 o'clock from No. 1—will be called the I.N.R. Radio Or-chestra. Its task will be light music, both of the symphonic and operetta order, and it will take charge of such programmes as selections, the music of sound films, and dance music. It is composed of twentysix players, and the instruments include a



Franz André

trio of saxophones and all the modern components of jazz bands. Its conductors are to be M. Franz André, whose portrait we give here, and M. Charles Walpot. The usual orchestral programmes will be in the hands of the Symphony Orchestra, which consists of forty players, but for the more important symphony concerts it is to be augmented to sixty-five musicians, and they will play only under the direction of M. Desiré Defauw, the artistic Director at Brussels and a conductor who is well-known beyond the frontiers of Belgium. The first appearance of the new augmented Symphony Orchestra is set down for Wednesday; both BRUSSELS stations will broadcast its programme that evening.

NATIONAL

London: 1,148 261.3 50 Daventry: 193 1,554.4 30 Northern: 995 301.5 50.

Northern: 905 301.5 50.

10.15 a.m.—The Daily Service.
10.30—Time Signal (Greenwich),
Shipping Forecast.
10.45—"Off the Shelf"—I. Miss
A. S. Cooke (County Librarian for Kent).
11.0—11.5—Housewives' News.
12 noon—A Light Classical Concert.
Georgie Henschel (Soprano). The Serre Trio.
12.45 p.m.—The Commodore Grand Orchestra, directed by Joseph Muscant.

Orchestra, directed by Joseph Muscant.

1.0—Time Signal (Greenwich).

2.0—Gramophone Records.

2.25—Reception Test.

2.30—3.0—World History. Mr. J. A. White: "Empires Movements, and Nations—III, France."

3.45—Sonata Recital. Elsic Owen (Violin). Kathleen Thomson (Pianoforte).

4.15—Moschetto and his Orchestra.

4.45—Time Signal (Greenwich).

5.15 (Daventry)—The Children's Hour.

5.15 (Daventry)—The Children's Hour.
5.15 (London and Northern)—The IB.B.C. Dance Orchestra, directed by Henry Hall.
6.0—"The First News."
6.30—Time Signal (Greenwich).
6.30—Time Signal (Greenwich).
6.30—The Foundations of Music. Schumann Quartets, played by The Kutcher String Quartet.
6.50—"New Books." Miss V. Sackville-West.
7.10—7.25—Topical Talk.
7.30—"Music, Old and New"—IV. Mr. Victor Hely-Hutchinson.
8.0—A Programme by The Wisbech Male Choir.
8.30—"Dr. Abernethy—His Book."

8.30—"Dr. Abernethy—His Book."
A Play in One Act, by Alicia
Ramsey and Rudolph de Cordova.
Adapted by Dulcima Glasby.
Produced by Howard Rose. 9.25—"The Unknown Island"—XVII. Mr. S. P. B. Mais.

9.40—An Orchestral Concert. Kate Winter (Soprano). The B.B.C. Orchestra (Section E), conducted by Percy Pitt. 11.0—12 midnight—Dance Music.

11.30-Time Signal (Greenwich).

REGIONAL

London: 842 356.3 50 Midland: 752 398.9 25 Northern: 626 479.2 50

10.15 a.m. (London and Northern)—
'The Daily Service.

10.30—11.5 (London and Northern)
—Daventry National Programme.

11.30—12 noon (London)—Experimental Television Transmission (Baird Process).

(Baird Process).

12 noon—Ernest Parsons and his Orchestra.

1.0 p.m.—Reginald New at the Organ.

1.45—3.0—The Midland Studio Orchestra. Frances Bond (Mezzo-Soprano).

3.45 (London and Northern)—
Daventry National Programme.
5.15—The Children's Hour.
6.0—"The First News."
6.30 (London)—The B.B.C. Orchestra (Section D), conducted by B. Walton O'Donnell. Hilda Dederich (Pianoforte).
6.30 (Midland)—The Midland Studio Chorus.
6.30 (Northern)—A. Mills

6.30 (Midland)—The Midland Studio Chorus.
6.30 (Northern)—A Military Band Concert. The Band of H.M. Royal Corps of Signals. Booth Unwin (Bass).
6.45 (Midland)—The Regional Director's Monthly Talk: "Coming Events."
7.0 (Midland)—A Band Concert. The Creswell Colliery Band.
8.0 (London)—The Erhart String Chamber Orchestra. Conductor, Dorothy Erhart. Arnold Matters (Baritone). Charles Souper (Flute). Julia Wolfe (Harp).
8.0 (Midland)—An Orchestral and Ballad Programme. The Midland Studio Orchestra. Charles Dean (Baritone).
8.0 (Northern)—The Rev. E. C. Tanton: "Literary Tours of the North."
8.20 (Northern)—The Studio Orchestra. Arthur Dixon (Enterstra.

North."
20 (Northern)—The Studio Orchestra. Arthur Dixon (Enter-

orchestra. Arthur Dixon (Enter-tainer).

9.15—Vaudeville. A Special Vaude-ville Programme of Street Pave-ment Artists.

10.15—"The Second News."

10.35—11.0 (Midland)—As London.

10.35—12 midnight (London and Northern)—Dance Music.

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO BRITISH SUMMER TIME

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW.

Transmits at intervals from 12.30 p.m.
7.0 p.m.—Violin and Pianoforte Solos.
Canzonetta (d'Ambrosio). Melody
(Kreisler). Schottische (Beethoven)

hoven).
10—Financial Notes and Exchange

hoven).

7.10—Financial Notes and Exchange Quotations. 7.20—Shipping Report and Weather Forecast. 7.25—Film Review. 7.35—Songs from Sound Films. 7.55—News and Time Signal.

8.0—Concert by the Station Orchestra. Soloist: M. Tessier (Violin). Overture, "Tutti in maschera" (Pedrotti). Impressions provençales (Brun). Canzonetta (Godard). Ballet Music from "Isoline" (Messager). Waltz, Ala Française (Wohanka). Violin Solo: Ronde des Lutins (Bazzini). En vue d'Alger (Saint-Saéns). French Military March (Saint-Saéns). Masques et Bergamasques (Fauré). 9.15—Airs from "La Basoche"—Operetta (Messager). 9.30—Dance Music, relayed from the Municipal Casino.

BARCELONA (Spain)

Radio-Barcelona (EAJ1). 860 kc/s (349 m.); 8 kW.

Radio-Barcelona (EAJ1). 860 kc/s (349 m.); 8 kW.

Transmits at intervals from 12 noon. 8.0 p.m.—Concert by the Station Trio. Overture, "Der Freischütz" (Weber). Nocturne No. 1 in B Flat, Op. 32 (Chopin). Silhouettes (Ewing).

8.30—Exchange Quotations and Talk. 9.0—Request Gramophone Records, Sports Notes and News. 10.0—Chimes and Weather. 10.5—Humorous Review of the Week's Events in Verse. "10.15—Concert of Sardanas.

11.0—Orchestral Selections. Selection from "La Reina mora" (Serrano). Menuet des follets (Berlioz).

11.30—Choral Concert. 12.30 a.m. (Tiesday)—Dance Music from the Excelsior Dance Hall. 1.0 a.m. (approx.)—Close Down.

BELGRADE (Yugoslavia)

BELGRADE (Yugoslavia)
607 kc/s (430.4 m.); 2.5 kW.
Transmits at intervals from 11.0 a.m.
4.0 p.m.—Light Music on Gramophone Records. 5.0—Yugoslavian
Melodies by the Privrednik Orchestra.
6.55—Time Signal and Programme
Announcements. 7.0—Popular Music
on Gramophone Records. 7.30—
Yugoslavian Melodies by the Radiojevic Orchestra.
8.10—Selections from the Works of
Davorin Jenko, for Soloists, Choir
and Orchestra. 9.40—News and
Sports Notes. 10.0—Relay of Foreign
Stations.

BERLIN (Germany)

BERLIN (Germany)

Königs Wusterhausen. 183.5 kc/s

(1,635 m.); 60 kW.

Transmits at intervals from 5.45 a.m.
(Weather, Gynnastics and Concert
from Witzleben).

12.5 p.m.—Talk in English for Schools,
followed by Gramophone Concert of
May Music and Weather for Farmers.

12.55—Nauen Time Signal. 1.30—
News Bulletin. 2.0—"From Offenbach to Lehar"—I. Gramophone
Concert, relayed from Berlin (Witzleben). 2.45—The Children's Radio
Journal. 3.30—Weather Report and
Exchange Quotations. 3.40—Talk
for Young People: In a Collapsible
Boat on the North Sea. 4.0—Talk:
Photography as an Educational Factor. 4.30—See Berlin (Witzleben).

5.30—Talk: South America in the
Crisis. 6.0—Making Music with
Invisible Partners. 6.30—Elementary
Spanish Lesson. 6.55—Weather for
Farmers. 7.0—Topical Talk. 7.20—
Agricultural Talk. 7.35—Talk
by Prof. Becker: My Travels in
Eastern Asia.

8.15—Programme from Frankfurt.
Part Relay of a Military Band Concert, followed by a Radio Play.
10.30—See Berlin (Witzleben).
12.30 a.m. (Tuesday)—Close Down.

BERLIN (Germany)

Witzleben. 715 kc/s (419.5 m.);
1.5 kW.
Transmits at intervals from 6.0 a.m.
(Gymnastics and Concert from Breslau)
4.30 p.m.—Recital of Modern Organ Music. Prelude (Zoltan Kodaly).
Passacaglia (Hugo Kauder).
4.45—Recital of Loeve Ballads by Gotthold Ditter (Bass-Baritone).
Archibald Douglas. Kleiner Haus-

halt. Süsses Begräbnis. Odins
Meeresritt. Prinz Eugen.
5.15—Sonata in C. Sharp Minor,
Op. 27, No. 2 (Beethoven).
7 alk: Curing the Sports Fanatic.
5.50—Talk: Men and their Work—
the Salesman. 6.10—Reading of Prose.
6.30—Talk: The Crisis and Social Accomplishments.
6.55—"The Witzleben Station informs its Listeners.
7.0—Topical Talk.
7.10—Topical Programme.
7.30—Talk: The Inhabitants of the Ruhr.
7.55—Talk on the following transmission. Talk: The Inhabitants of the Ruhr. 7.55—Talk on the following transmission.
8.0—"Tiefland"—Opera in Two Acts and a Prelude (d'Albert), relayed from the Municipal Opera House, Charlottenburg.
10.30—News, followed by Radio Report on the Four Countries' Boxing Tournament in the Kaiserdamm Exhibition Hall (on Gramophone Records). After the Report, Dance Music from the Femina. 12.30 a.m. (Tuesday)—Close Down.

BORDEAUX-LAFAYETTE

(Tuesday)—Close Down.

BORDEAUX-LAFAYETTE

(France)

(PTT). 986 kc/s (304 m.); 13 kW.
Transmits at intervals from 12.45 p.m.
7.30 p.m.—News, Exchange and
Market Prices. 7.40—Sports
Notes. 7.55—Lottery Results. 8.0—
Talk on Children. 8.15—Charades.
8.20—News and Weather Forecast.
8.20—News and Weather Forecast.
8.20—Light Music on Gramophone
Records.
9.0—Concert of Classical and Modern
Music. Soloists: M. Champeil
(Violin), M. Vigno (Vocalist), MI.
Beaudoin, M. Barouk ('Cello), M.
Grange (Pianoforte). Violin Solo:
Polonaise (Wieniavsky). Songs;
(a) Aria from "The Pearl Fishers,"
(b) Aria from "Der Freischütz"
(Weber). Two Solos by M.
Beaudoin: (a) Larghetto from the
Ninth Quintet (Mozart), (b) Concertante Variations (Weber).
'Cello Solos: Two Pieces (Marcello-Salmon). Pianoforte Solos:
Fantasia and First Movement from
the Eighteenth Sonata (Mozart).
Violin Solos: (a) Two Pieces
(Bonnal), (b) Syncopation (Kreisler).
Two Songs: (a) Si tu le veux
(Koechlin), (b) Song from "Iphigénie en Tauride" (Gluck). Solos
by M. Beaudoin: (a) Three Pieces
(Schumann), (b) Sarabande et
Thème varié (Hahn). Two 'Cello
Solos: (a) Suite for 'Cello (Bach),
(b) Butterfiles (Fauré). Two

BRATISLAVA

1,076 kc/s (279 m.); 14 kW.
Transmits at intervals from 11.0 a.m.
7.0 p.m.—See Prague. 7.20—See
Brno. 8.55—See Prague. 9.0—Orchestral Concert of Swedish Music,
conducted by Fr. Dyk. 10.0—
Programme Announcements. 10.20
—Concert of Popular Music.

BRESLAU (Germany)

BRESLAU (Germany)

923 kc/s (325 m.); 1.5 kW. Relayed by Gleiweitz, 1,184 kc/s (253 m.).

Transmits at intervals from 6.0 a.m. 6.25 p.m.—English Lesson. 6.40—1.egal Talk: Everyday Problems. 7.0—Weather Forecast. 7.5—Talk: The Work of an Author. 7.30—Concert from Hamburg. 9.0—News Bulletin 9.10—"Mediaeval Wandering. Scholars"—a Lyrical Radio Sequence (arr. Otto Zarek). 10.0—Time, Weather, News, Sports Notes and Programme Announcements. 10.40—Talk: Olympiads and the Present Industrial Situation. 11.0 (approx.)—Cluse Down. Close Down

BRNO (Czechoslovakia)

BRNO (Czechosłovakia)
878 kcj. (342 m.); 35 kW.
Transmits at intervals from 11 a.m.
7.0 p.m.—See Prague, 7.5—Talk:
Alodern Architecture, 7.20—Radio-Revue in Two Parts and Ten Scenes.
8.55—See Prague, 10.15—Announce-ments, 10.20—See Bratislava.

BRUSSELS (Belgium) (No. 1) 1.N.R. 500 kc/s (500 m.); 15 kl 2 noon—Organ Recital from t armelite Church. 12:30 p.m. 'armelite'

Carmelite Church. 12:30 p.m.Weather Report.
12.40—Trio Concert. March of the
Dwarfs (Grieg). Napoli (d'Ambrosio). Violin Solo: Andalouse
(Sarasate). Selection from
"Paganini" (Lehár). Gavotte
for 'Cello (Popper). Old Spain for 'Celle (Demon). -Gramophone Records of Old

1.0-Gramophone Records. Slepicka (Smetana). Valse caprice (Wieniav-sky). Aria from "The Marriage of Figaro" (Mozart). Aria from "The Force of Deatiny"

40—Gramophone Records of New

Dance Music. 2.0—Broadcast 107 Schools.

5.0—Orchestral Concert, conducted by Arthur Meulemans. Overture, "Le Roi l'a dit" (Delibes). Suite funambulesque (Messager). Selection (Honegger). Chant du soir (Schmitt). Berceuse (Fauré). Tango, (Milhaud). Valse des Brunes (Ganne). Ballet Music from "Henry VIII" (Saint-Saëns). 5.0—Gramophone Records. Faust Overture (Wagner). Hungarian March in C Minor (Schubert-Liszt). 6.15—Talk: Alchemy. 1.30—Belgian Sonata Recital by Georges Pitsch and Charles Scharres. Sonata (Sammartin). Sonata in B Flat, Op. 45, No. 1 (Mendelssohn). 7.15—Microphone Report: The Belgian Rail-

Sonata in B Flat, Op. 45; No. 1 (Mendelssohn). 7, 15—Microphone Report: The Belgian Railways—Tourist Traffic. 7,30—Theatre Review. 8.0—Songs of Old Liege, arranged by Charles Defrécheux, with the Collaboration of Mme. Couturier, M. Wadeleux, M. Stevart and M. Halleux. 45—Gramophone Records of Light Viusic.

3.45—Gramophone Records of Light Music.

8.0—Concert by the New INR Orchestra, conducted by Franz André.
Soloists: M. Gazon (Saxophone).

M. Brenders (Pianoforte), M. Gras (Pianoforte), M. Misson (Violin), Mile. Y. Sam (Songs) and M. Géodel (Songs). Fantasia on Motives by Suppé (Michaelov). Saxophone Solo: Vanity Waltz (Widoeft). Selections for Two Pianofortes. Czardas for Violin and Orchestra (Monti). Xylo-Pianofortes. Czardas for Violin and Orchestra (Monti). Xylophone Solo (Rickson). By the Swanee River (Myddleton) Tango for Violin, O Cara Mia (Brodsky). Songs from "Rose Marie" (Friml). Foxtrot from "Nikki" (Charing). Selection from "The Drum Major's Daughter" (Offenbach). Two-Daughter" (Offenbach). Two-step, Manuela del Rio (Lucchesi). 10.0—Talk on Gardening. 10.10— Dance Music by Charles Remue and his Orchestra. 11.0 (approx.)—

BRUSSELS (Belgium) (No. 2) N.I.R. 887 kc/s (338.2 m.); 15 kW. Programme in Flemish.

12 noon—Concert by the Max Alexys Orchestra. 12.30 p.m.—
Weather Forecast. 12.40—Concert (contd.). 2.0—Educational Pro-

gramme. 5.0—Dance Music by Charles Remue and his Orchestra. 6.0—Gramophone Records. Quintet with Clarinet (Mozart). Romantic Waltz (de Séverac). 6.15—Review of New Books. 6.30—Concert of Popular Music on Gramophone Records. Camelia March (Volant). Fantasia on the Works of Offenbach (Urbach). Milonga (Cadicanno). Por la Pinta (Franco). Melodious Memories (Finck). Goodnight Sweetheart (Noble). My Sunshine is you (Stolz). Greg-Erinnerungen (Urbach). March on Motives from "The Huguenots" (Meyerbeer).

(Urbach). March on Motives from "The Huguenots" (Meyerbeer).
1.5—Variety ltems. 7.39—Le ournal Parlé.
0.—Concert by the New Station Orchestra, conducted by Franz André. Soloists: M. Gazon (Saxophone), M. Béthune (Violin), M. Lombard (Xylophone), M. Branders (Pianoforte), M. Gras (Pianoforte), and M. Feror (Violin). Vocal Interludes by Mlle. Yvette Sam and M. Géodel. Saxophone Solo: Schön Rosmarin (Kreisler). The Canary, for Violin and Orchestra (Poliakin). Xylophone Solo: Schön Rosmarin (Kreisler). The Canary, for Violin and Orchestra (Poliakin). Xylophone Solo: Soxtor, Steppin' out (Robbyns). Fantasia, Way Down Solo: Tango (Benatzky). Selection for Two Pianofortes. Violin Solo: Tango (Benatzky). Selection from "No, No, Nanette" (Youmans).

from "No, No, Nanette" (Youmans).

Omega to the Station Symphony Orchestra, conducted by
Jean Kumps. Recitations by Mile.

G. Malcorps. Overture, "Semiramis" (Rossini). Selection from
"Cavalleria Rusticana" (Mascagni). Songs. Waltz (de Boeck).

10.0—Le Journal Parlé. 10.10—
Concert (contd.). Une Fête à Aranjuez
(Demersseman). A Musical Box
(Nicolaievsky). Rêve de Bonheur
(Brusselmans). Songs. Selection
from "Lohengrin" (WagnerPopy). Dance of the Hours from
"La Gioconda" (Ponchielli).
Waltz from "The Dollar Princess"
(Fall).

BUCHAREST (Romania)

BUCHAREST (Romania)
Radio-Bucarest. 761 kc/s (394 m.);
12 kW.

12 kW.

Transmits at intervals from 12 noon.
5.0 p.m.—Concert of Jazz Music.
6.9—News and Time Signal. 6.10—
Jazz Music (contd.). 7.0—Readines and Recitations. 7.40—Popular Music on Gramophone Records.
8.0—Talk on the following transmission.

mission.
8.10 Quartet in A Minor, Op 132
(Beethoven), by the Theodoresco
Quartet. 8.50—Talk (to be an-Quartet.

nounced).

9.5—Song Recital by Edgar Istratty (Bass). Aria from the Mass in B Minor (Bach). Largo (Handel). Aria from "Parsifal" (Wagner). La Vague et la Cloche (Duparc).

9.25—Romanian Musie by the Aleco Ionesco Orchestra.

Bulla Appare

BUDAPEST (Hungary

BUDAPEST (Hungary)

454 kc/s (550 m.); 18.5 kW.

Transmits at intervals from 9.15 a.m.
Also "relayed on 210 m. from 5.30 p.m. to 12 midnight.

5.30 p.m. to 12 midnight.

5.30 p.m.—Concert of Ballet Music by the Royal Hungarian Opera House Orchestra, conducted by Otto Berg. Selection (Mozart). Ballet Music from "Herodiade" (Massenet). Ballet Music from "Die Zauberwase" (Huvös). Selection from "The Seasons" (Glazounov).

6.45—Germant Lesson. 7.15—Talk (to be announced).

7.40—Concert from the Hechschule. The Palestrina Choir and the

The Palestrina Choir and the Budapest Concert Orchestra, con-Budapest Concert Orchestra, con-ducted by Ludwig Bardos. The Nelson Mass (Haydn). Ah, lo previdi (Mozart). The Symphony of Psalms (Stravinsky); followed by Cigány Concert from the Hotel Spolarich. 11.0—Dance Music from the Hotel Bellevue.

COPENHAGEN (Denmark) 1,067 kc/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 kc/s

Relayed by Kauman (1,153 m.).

Transmits at intervals from 7.30 a.m. 12 noon—Town Hall Chimes. 12.2—2.0 p.m.—String Ensemble Concert from the Hotel d'Angleterre.
2.50—Gramophone Concert. The lewel Song from "Faust" I

from the Hotel d'Angleterre.
2.50—Granophone Concert. The Jewel Song from "Faust" (Gounod). Canio's Aria from "I Pagliacci" (Leoncavalle). Aria from "A Masked Ball" (Verdi). Aria from "Ernani" (Verdi). Vienna, City of my Dream (Sieczynsky). Wie baas isch mir da obe (Schmalz and Krenger). Potpourri, Schlagsahne (Kermbach-Flessburg).

pourri, Schlagsahne (Kermbach-Flessburg).
3.20—Talk for the Housewife. 3.30
—Concert from the Wivex Restaurant.
5.0—Reading (Sophus Michaëlis).

MONDAY

continued

Talk. 6.20—Elementary English Lesson. 6.50—Weather Report. 7.0—News Bulletin. 7.15—Time Signal. 7.30—Pfogramme for Girls. 8.0—Town Hall Chimes. 8.2—"The Hansen Family"—A Humorous Episode (Jens Locher). 8.15—Song Recital from the Works of Lange Müller. 8.35—"Nordensguder".—Poem (Adam Ochlenschläger).

lager).
—Chamber Music. Quintet in 3 Major, Op. 77 for two Violins, Viola, 'Cello and Double Bass

Viola, 'Cello and 'Double Bass (Dvorak).

9.45—News Bulletin. 10.0—Variety Programme for the Benefit of Children's Aid Day. 1.0 a.m. (Tuesday)—Close Down.

DUBLIN (Ireland)

(2RN). 725 kc/s (413 m.); 1.2 kW. Relayed by Cork, 1,337 kc/s

(2RN). 725 kc/s (413 m.); 1.2 kW. Relayed by Cork, 1,337 kc/s (224.4 m.).
1.30—2.0 p.m.—Time Signal, Weather Forecast, Stock Report and Light Music on Gramophone Records.
6.0—Popular Music on Gramophone Records.
6.15—Programme for Children.
7.0—Light Music on Gramophone Records.
8.15—Sommen by the Station Sextet.
8.15—Soprano Solos by May Doyle.
8.30—Songs of the Sea, by Robert Irwin (Baritone). 8.45—"Dr. Abernethy"—Play, presented by the Studio Players.
9.15—Violin Solos by Signor Grossi.
9.30—Talk: "Mission and Movie."
9.50—Sextet Music.
10.0—Concert by the Ceilidhe Trio.
10.30—Time Signal, News, Weather Report and Close Down.
FECAMP (France)

FÉCAMP (France)

Report and Close Down.

FECAMP (France)

Radio Normandie. 1,364 kc/s (219.9 m.); 10 kW.

12 noon—Popular Music on Gramophone Records. 12.30 p.m.—News Bulletin.

12.45—Concert of Operatic Music. Selection from "Les Noces de Jeannette" (Massé). Selection from "La Fille de Madame Angot" (Lecocg). Jeune fille au jardin (Mompou). Selection from "The Damnation of Faust" (Berlioz). Selection from "The Damnation of Faust" (Berlioz). Selection from "Othello" (Verdi). Selection from "Gerand Mogol" (Audran). La rue, le guitariste et le vieux chèval (Mompou). Selection from "The Fair Maid of Perth" (Bizet).

7.30—Radio Announcements. 8.0—News Bulletin. 8.15—Wireless Review. 8.30—News Bulletin. 8.45—Concert, with Dramatic Items in the Intervals. Selection from "Manon Lescaut" (Auber). Valse Lente (Caruso). Selection from "L'Avare" (Molière). Selection from "Control of the Selection from "L'Avare" (Molière). Selection from "Rigoletto" (Verdi). Chanson de juin (Godard). Selection (Messager). Reading from "Amphitryon" (Molière). Selection (Leoncavallo). II.0—Dance Music and Variety Items. 1.0 a.m. (Tuesday)—Close Down.

FRANKFURT-am-MAIN

FRANKFURT-am-MAIN

(Germany)

770 kc/s (390 m.); 1.5 kW.
Relayed by Cassel, 1,220 kc/s
(246 m.).
Fransmits at intervals from 6.0 a.m.
6.50 p.m.—English Language Lesson.
7.15—Time, Programme Announcements, Weather and Economic Notes.
7.30—Military Band Concert. March,
Regimentsgruss (Steinbeck). Overture, "The Merry Wives of Windsor" (Nicolai). Bleisoldaten auf
Wache (Prager). An den Frühling Regimentsgruss (Steinbeck). Overture, "The Merry Wives of Windsor" (Nicolai). Bleisoldaten auf Wache (Prager). An den Frühling (Grieg). Waltz, Frühlingsstimmen (Johann Strauss). Army March (Adam). Overture, "Mignon" (Thomas). Rumpelstilzchen (Hartenhauer). Ausmarsch der Feldgrauen (Jessel). Emperor Waltz (Johann Strauss). Army March (Orlin). Potpourri, Tonwellen (Manfred). Deutsche Marschperlen (Blankenburg).

(Manfred). Deutsche Marschperlen (Blankenburg). 9.10—"Gossip"—Radio Play (Hans Fallada). 10.30—Time, Weather and News. 10.45—Dance Music from Munich. 12 midnight (approx.)— Close Down.

HAMBURG (Germany)

Norag (ha, in Morse). 806 kc/s (372 m.); 1.5 kW. Relayed by Bremen, 1,112 kc/s (270 m.); Flensburg, 1,373 kc/s (218 m.); Hanover, 530 kc/s (566 m.); and Kiel, 1,202 kc/s (232.2 m.)

Transmits at intervals from 5.45 a.m. 6.35 p.m.—Talk for Workers: A Commercial Clerk tells about his Work. 6.55—Exchange and Market Prices. 7.0—Topical Talk. 7.15—Westber Property of the control of the

Commercial Clerk tells about his Work. 6.55—Exchange and Market Prices. 7.0—Topical Talk. 7.15—Weather Report. 7.20—Weber Concert by the Station Choir and Orchestra, conducted by José Eibenschütz. Soloists: Eva Schlee, Erna Kroll-Lange (Soprano) and Alexander Schneider (Violin). Overture, "Peter Schmoll." Mixed Choir Selection: Frohe Mut from "Preciosa." Violin Solo: Larghetto (arr. Kreisler). Ocean Aria from the Second Act of "Oberon." Overture, "Abu Hassan." Soprano Solo: Unbefangenheit. German Dances. Selection for Male Voice Choir: Die Tale dampfen, from the Second Act of "Euryanthe." Grand Polonaise in E Major. Soprano Solo: Glöcklein im Tal. Overture, "Luryanthe." 9.0—"Humour in Shakespeare"—Concert by the Norag Orchestra and Soloists, with Introductory Talk by Johannes Tralow. Conductor: Adolf Secker. Overture, and Scene from "The Merry Wives of Windsor" (Nicolai). Overture, "A Midsummer Night's Dream" (Mendelssohn). Pyramus and Thisbe—Scene from "A Midsummer Night's Dream" (Mendelssohn). Pyramus and Thisbe—Scene from "A Midsummer Night's Dream" (Mendelssohn). 10.0—Time, Weather and Announce-ments. 10.20—Concert from the Café Wallhof.

HEILSBERG (Germany)

1,085 kc/s (276.5 m.); 60 kW. Relayed by Danzig, 662 kc/s

1,085 kc/s (276.5 m.); 60 kW. Relayed by Danzig, 662 kc/s (453.2 m.).

Transmits at intervals from 6.0 a.m. 11.40 a.m. (from Hamburg)—Concert from Hanoter.

1.5—2.30 pm.—Gramophone Concert.

1.5—2.30 pm.—Gramophone Concert.

Overture, "The Flying Dutchman" (Wagner). Songs by Anton Baumann (Bass): (a) Aria from "Martha" (Flotow), (b) Aria from "Martha" (Flotow), (b) Aria from "Martha" (Auber). Duet from "Lucia di Lammermoor" (Donizetti). Yehudi Menuhin: First Movement from the Sonata for Violin in C Major (Bach). Overture, "Preciosa" (Weber). Selection from "Marietta" (Oscar Straus). Elizabeth von Endert (Soprano): (a) Zauberlied (Meyer-Helmund), (b) Ob du mich liebst (Lincke). Xylophone Solo: Al Fresco (Herbert). Serenata '(Tarengh). Piaisir d'amour (Martini). The Orchestra and Chotus of the Berlin State Opera House: Spinning Chorus from "The Flying Dutchman" (Wagner). March, Fest im Sattel (Blon).

(Wagner). March, Fest im Sattel (Blon).

4.0—Programme for Children: Reading of Animal Stories.

4.30—Concert from Breslau. The Upper Silesian Landestheater Orchestra, conducted by Erich Peter. Soloists: Franz. Sykora (Violin), Alwin Kirchhoff ('Cello) and Dora Wagner (Harp). Prelude to "Zigeunerprimas" (Kálmán). Unter der Linde—for Violin, 'Cello and Harp (Komzak). Ballet Music from "Carmen" (Bizet). Improvisation on an Old Egerland Song (Sykora). Selection from "A Waltz Dream" (Oscar Straus). Rendezvous bei Lchár (Hruby). 3.30—Talk on Friedrich, Baron von Hardenberg, on the Hundred and Sixtieth Anniversary of his Birth. 5.45 (from Danzig)—Talk: Danzig and Königsberg. 6.15—Agricultural Prices. 6.25—Review of Books. 6.55—Talk: Memorable Days of the Week. 7.5—Talk: The Modern Smith. 7.30—Weather Forecast. 7.35—See Berlin (Königs Wusterhaussen).

8.15—Concert of Chamber Music for Four Wind Instruments and Pianoforte (Walter Jentsch). Wind Instrument Quintet in G Minor (Mozart). 9.0—Announcements. 9.10—See Frankfurt. 10.30—News Bulletin.

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW.
7.25—10.40 a.m.—Programme of the
Workers' Radio Society (V.A.R.A.).
7.25—40 and 8.10—8.25—Gymnastics. 8.40—Gramophone Records 7.25—7.40 and 8.3 nastics. 8.40—Gram of Variety Music.

Concert.
Concert.
Concert.
Liberal Protestant Radio Society Concert.
10.40—Religious Programme by the
Liberal Protestant Radio Society
(V.P.R.O.).
10.55 till Close Down—V.A.R.A.
Programme 10.55—Recitations.
11.10—Quintet Concert. 12.25 p.m.
—Baritations. Restaurant in's andere (Millöcker). Waltz, Très jolie (Waldteufel). Gallop, Petersburger Schlittenfahrt (Eilenberg). Gramophone Records of Variety Music. Selection from "The Black Domino" (Auber). Waltz, Einmal kommt der Tag (Benatzky). Butterfly Waltz (Friml). Gramophone Records of Variety Music. Patrouille enfantine (Gillet). In meinem Herzen bist du die Königin (Doelle). Overture, "A Night in Venice" (Straus). Gramophone Records of Variety Music. Waltz, Tesoro mio (Becucci). Rèverie (Ganne). Hiawatha (Moret). Gramophone Records of Variety Music. Potpourri, Ein Opernabend (Manfred). Pasodoble, Marietta (Kapplusch). 2.25—2.55—Interval. 2.55—Reading. 3.40—Quintet Concert. March, Hoch Heidecksburg (Herzer). Waltz, Japansy (Klerner). Musica proibita (Gastaldon). The Match Parade (Wehle). Gramophone Records of Variety Music. Selection from "The Geisha" (Jones). Foxtrot, Du bist das Liebste (Kálmán). Gramophone Records of Variety Music. Czardas (Monti).

Records of Variety Music. Selection from "The Geisha" (Jones). Foxtrot, Du bist das Liebste (Kálmán). Gramophone Records of Variety Music. Czardas (Monti). Waltz, Roses from the South (Strauss). Jumping Jack (Bloom). Gramophone Records of Variety Music. Potpourri, Von Wien durch die Welt (Hruby). Foxtrot, Song of Happiness (Gottler). Onestep, Wenn ich vergnügt bin (Hans May). 5.10—Programme for Children.

Wenn ich vergnügt bin (Hans May). 5.10—Programme for Children.
5.40—Quintet Concert. March, Wien bleibt Wien (Schrammel). Dynamidenwalzer (Strauss). Heinzelmännchens Wachtparade (Noack). Waltz, Wiener Blut (Strauss). Japanese Lantern Dance (Yoshitomo). Gramophone Records of Variety Music. March. Das ist die Liebe der Martosen (Heymann). Ninon du Kind der Stadt Paris (Kálmán). Saxophobia (Wiedoeft). Chōo-Choo (Malnek). Tango, Ich träume von einer Märchennacht. L'étudiant passe. Gramophone Records of Variety Music. Barataria-March (Komzak). Waltz, Hofballtänze (Lanner). Hearts and Flowers (Czibulka). Waltz, The Good Old Times (Strauss). Radetzky March (Strauss). Gramophone Records of Variety Music. Ein bisschen Liebe für mich (Abraham). Waltz, Reaching for the Moon (Berlin). La Paloma (Yradier). Parle-moi (Lenoir). An Old Violin (Fisher). Porpourri, Das Beste vom Besten (Doctal). 7.20—Talk. 7.40—Concert by the V.A.R.A. Philharmonic Orchestra, conducted by Tiggers, with the Kässler Madrigal Society and J. v. Rennes (Clarinet). 8.40—Recitations. 9.0—Concert (condd.). Overture, "Ruy [Blas" (Mendelssohn). Potpourri of Russian Melodies for Orchestra (Liadov). Overture, "Romeo and Juliet" (Tchai-kovsky).

Orchestra (Liadov). Overture,
"Romeo and Juliet" (Tchaikovsky).
9.40—Choral Selections.
9.55—
"An Everyday Affair"—Radio
Drama (Bruck) translated by Priem.
10.35—Concert (contd.). Academic
Festival Overture Op. So (Brahms).
Overture, "Tancred" (Rossini).
10.55—News Bulletin.
11.10—Septet Concert. March, Wien
bleibt Wien (Schrammel). Waltz,
Wienerblut (Johann Strauss). Waltz,
Im Prater am Abend beim Wein
(Engelberger). Im Gartchen zum
Ribstock beim Wein (Friedmann).
Gramophone Records of Variety
Music. Potpourri, From A to
Z (Geiger). Waltz, Meiner Liebe
blüth alle Jahre auf's Neu (Salter).
Canzonetta (d'Ambrosio). Gramophone Records of Variety Music.
Waltz, Balisrenen (Lehár). Wonderful World of Romance (Wood).
Se mein Kamarad (Gilhert).
Gramophone Records of Variety
Music. Songs of the Nations
(Bodewalt-Lampe). Tango, Eine
wie du (Mann). Radetzky-Marsch
(Strauss). 12.40 a.m. (Tuesday)—
Close Down.

HUIZEN (Holland)

HUIZEN (Holland)

160 kc/s (1,875 m.); 8.5 kW.

160 kc/s (1,875 m.); 8.5 kW.
Programme of the Christian Radio Society (N.C.R.V.). 8.40 a.m.—Bible Reading. 8.55—10.10—Gramophone Records of Light Music. 11.10—Programme for Invalids. 11.40—Religious Reading. 12.10 p.m.—Gramophone Records of Variety Music. 12.40—Police Notes. 12.55—Gramophone Records of Variety Music.

1.10—Organ Recital by J. Zwart. Concerto in G Major (Vivaldi-Bach). Concerto in F Major (Händel). Sonata No. 5 (Mendelssohn). Symphony No. 2 (Widor). Passacaglia (Bach). Suite of Chorals (Zwart).

- Recitations.

12.40—Septet Concert. Aus cinem Horticultural Talk. 3.55—Lesson

Dressmaking 4.40—Programme for Invalids.

Dressmaking
Invalids:
5.40—Concert. Mme. A. Zeller
(Mezzo-Soprano), M. J. Middendorp (Violin and Oboe) and
H. G. v. d. Berg (Pianoforte
and Harmonium). Sonata No. 4
in D Major (Händel). Schlage
doch (Bach). Toccata and Fugue
in G Minor (Bach). Recitative
and Aria from "Xerxes" (Händel).
Concerto (Marcello). Pie Jesu
(Fauré). Schlafendes Jesuskind
(Wolf). Gebet (Wolf). Romance
(Svendsen). Deemstering (v. d.
Berg). Avondbed (v. d. Berg).
Pastorale from the Sonata for
Oboe and Pianoforte (Saint-Saens).
Gebed des Heeren (Pomper).
7.10—The Letter Box. 8.10—Police
Notes. 8.40—Special N.C.R.V.
Transmission.

7.10—The Letter Box. 8.10—Police Notes. 8.40—Special N.C.R.V. Transmission. 8.50—Orchestral Concert. Academic Festival Overture (Brahms). Five Tone Pictures (Reinceke). Rhapsody, Piet Hein (Anrooy). Four Paraphrases (Engels). 9.40—Talk. 10.10—Concert (contal). First Suite from "Carmen" (Bizet). Fantasia on Two French Melodies (Lekeu). Pastorale d'été (Honegger). L'Apprenti Sorcier (Dukas). In the interval at 10.40 (approx.)—News. 11.10—Gramophone Records of Light Music. 12.10 a.m. (Tuesday)—Close Down.

KALUNDBORG (Denmark) Kalundborg Radio. (1,153 m.); 7.5 kW. ce Copenhagen.

KATOWICE (Poland)

734 kc/s (498 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
4.20 p.m.—French Lesson. 5.35—
Concert of Light Music followed by
Relay from a Polish Station. 110.45—
Dance Music.

LAHTI (Finland)

LAHTI (Finland)

167 kc/s (1,796 m.); 54 kW. Relayed by Helsinki, 815 kc/s (368.1 m.).

Transmits at intervals from 7.30 a.m.
5.0 p.m.—Oboe Recital. Concerto for Oboe (Haydn). 5.20—German Lesson. 5.50—News in Finnish.
5.59—Time and Weather. 6.10—News in Swedish. 6.15—Agricultural Report. 6.30—Recital of Songs from the Works of Otto Kotilainen.
6.45—Talk. 7.10—Musical Selections. 7.30—Talk on Finnish Music.

8.0—Concert of Finnish Music. Finnish Melodies (Pahlman). The First Waltz (Klemetti). Violin Solo: Reminiscences (Ikonen). Violin Solo: Canzonetta (Pesola). Saaristolaislauluja (Kauppi). Waltz, A Summer's Night (Merikanto). 8.45—News in Finnish and Swedish.

LANGENBERG (Germany)

Westdeutscher Rundfunk. 635 kc/s (473 m.); 60 kW.
Transmits at intervals from 6.45 a.m.
11.20 a.m.—Gramophone Concert.
Eysler Operetta Potpourri (Hruby).
Two Waltzes: (a) Herbststimmung, (Lincke), (b) Tesoro mio (Becucci), by Edith Lorand and her Orchestra. Tenor Solo by Herbert Ernst Groh: Dir sing ich mein Lied (Lehār.) Two Selections by Edith Lorand and her Orchestra: (a) Humoresque (Dvorak), (b) Czardas (Monti).
Tenor Solo from "The Bird Fancier" (Zeller). Viennese Waltz, So küsst man nur in Wien (Abraham), by Magda Schneider, with Orchestra! accompapiment. Potpourri, Ufaton-Bomben (Borchett) by Edith Lorand and her Orchestra.

Potpourri, Ufaton-Bomben (Borchert) by Edith Lorand and her Orchestra.

12 noon.—Concert from Stuttgart.
12.50—Weather News and Time.
13.50—Weather News and Time.
14.50—Weather News and Time.
15.50—Weather News and Time.
16.50—Read Concert of Overture, onducted by Eysoldt.
16.50—Solos (Grieg): (a) Herzwunden, (b) Letzter Frühling.
16.50—Solos (Grieg): (a) Herzwunden, (b) Letzter Frühling.
16.50—Read Concert of Hearth (Goldmark).
16.50—Read Concert Waltz (Moszkovsky).
16.50—Seecond Japanese Suite, From the Kingdom of the Sun (Yoshitomo).
17.50—Cattle Market Prices.
17.50—Cattle Market Prices.
18.50—Programme for Children.
18.50—Programme for Young People.
18.50—Chamber Music.
18.50—Programme for Young People.
18.50—Chamber Music.
18.50—Talk for Women: German Women Overseas.
18.50—Chamber Music.
18.50—Talk 7.50—Legal Talk.
18.50—Topical Talk.
18.70—Weather, Time, Economic and Sports Notes.
18.50—Topical Talk.
18.70—Legal Talk.
18.70—Concert of Modern Sacred

MONDAY continued

Choral Music by the Dörlemann Choir and Members of the Bochum Municipal Orchestra and the Station Orchestra and the Station Orchestra, relayed from the Ernst-Moritz-Arndt House, Bochum. Conductor: Busch-Rötter. Soloists: Marianne Lutz, Elisabeth Schaefers (Soprano), Trude Rösler (Contralto), Karl Kromberg (Bass), Dela Dierichs and Egbert Grape (Pianoforte). "Tröstung"—Canata for Three Choirs, Two Solo Voices and Small Orchestra (Roeseling). Concert Music for Ten Wind Instruments, Two Harps and Solo Pianoforte (Hindemith). Choral Inventions in Two Parts for Choir, Three Solo Voices, Lute, Choir and Orchestra (Pecters).

10.0—News and Sports Notes. 10.45
—See Munich. 12 midnight (approx.)
—Close Down.

LEIPZIG (Germany)

LEIPZIG (Germany)

1,157 kc/s (259 m.); 2 kW. Relayed by Dresden, 941 kc/s (319 m.).

Transmits at intervals from 6.0 a.m. 6.0 p.m.—Review of New Books. 6.30—Reading: Alfred de Musset (Dr. Arno Schirokauer) on the Seventy-fifth Anniversary of de Musset's Death. 6.50—Talk on Wireless by Karl Minde. 7.0—"Annaberg."—a Radio Sketch (Rudolf Schuster) on the occasion of the Erzgebirge Festival of Music at Annaberg. 7.30—Talk: Reminiscences of the First Production of The Corregidor in Mannheim, and an Introduction to the Opera.

8.0—"The Corregidor"—Opera in Four Acts (Hugo Wolf). No.15—News, followed by Concert by the Emde Orchestra. Item to be announced. Selection from "The Daughter of the Regiment" (Donizetti). Item to be announced. Selection from "The Daughter of the Regiment" (Donizetti). Item to be announced. Song, Addio (Leoncavallo). Persian Scene, Am Ziehbrunnen (Rust). Wedding March from "A Midsummer Night's Dream" (Mendelssohn). Potpourri, Fünf-Uhr-Tee bei Robert Stolz (Dostal). Narcissus (Nevin). Zigeuner-Sehnsucht (Nicklass-Kemoner). March, König Karl (Unrath). 12 midnight (approx.)—Close Down.

The Marvellous "Adana"

The Marvellous "Adana All-Steel Super 1932 Model Automatic Self-Inking Printing Machine . especially designed for Commercial Use in all Large and Small Printing Estab-

in all Larger Printing ments. Price

LJUBLJANA (Yugoslavia) 522 kc s (574.7 m₁); 2.5 kW. Transmits at intervals from 12.15 p.m. 6.0 p.m.—Quintet Concert. 7.0—Czech Lesson. 7.30—Talk on Hygiene. 8.0—Concert of Chamber Music. 9.0—Quintet Concert. 10.0—Time, News and Close Down.

LWÓW (Poland) T88 kc/s (381 m.); 16 kW.

Transmits at intervals from 11.45 a.m.
6.50 p.m.—Miscellaneous Items. 7.15

Talk. 7.30—See Warsaw. 7.35—
Popular Music on Gramophone Records.
7.45—See Warsaw. 12

midnight (approx.)—Close Down.

LYONS (France)

La Doua (PIT). 644 kc/s (465.8 m.); 1.5 kW.

Transmits at intervals from 8.0 a.m.
7.0 p.m.—Popular Music on Gramophone Records. 7.30—Radio Gazette for Lyons and the Sourh-East.
8.30—Sponsored Concert.

MADRID (Spain)

Union Radio (EAJ7). 707 kc/s (424.3 m.); 2 kW.
R. o. p.m.—Chimes, Exchange, Market Prices and Request Gramophone Concert. 9.15—News Bulletin. 9.30 (approx.)—Close Down.

MILAN (Italy)
Ente Italiano Audizioni Radiofoniche. 905 kc/s (331.5 m.);
7 kW.
See Turin.

MORAVSKÁ-OSTRAVA

(Czechoslovakia)
1,137 kc/s (263.8 m.); 11 kW.
Transmits at intervals from 11.0 a.m.
7.0 p.m.—See Prague. 7.20—See
Brno. 8.55—See Prague. 10.15—
Programme Announcements and
Theatre Guide. 10.20—See Bratis-

MOSCOW (Russia)

Trades Union. 230.1 kc/s (1,304 m.); 100 kW.
Transmits at intervals from 7.0 a.m.
7.0 a.m.—8.55 p.m.—Programme relayed from Komintern, 202.6 kc/s (1,481 m.); 100 kW. 6.0—Concert relayed from Leningrad. 8.0—German Transmission. Orchestral Concert and Speeches by the Dele-

gates. 9.0—English Transmission Orchestral Concert and Speeches by the Delegates. 10.0 (approx.)— Close Down.

Close Down.

MUNICH (Germany)

563 kc/s (533 m.); 1.5 kW. Relayed by Augsburg and Kaiserslautern, 536 kc/s (560 m.); and Nünnberg, 1,256 kc/s (230 m.).

Transmits at intervals from 6.45 a.m. 7.5 p.m.—Book Review. 7.20—Introductory Talk to the following Transmission.

7.35—"La Bohême"—Opera in Three Acts (Puccini), relayed from the National Theatre. 9.45—Reading. 10.20—Time, Weather and News. 10.45—Dance Music. 12 midnight (approx.)—Close Down.

OSLO (Norway)

OSLO (Norway)

Kringkastingselskapet. 277 kc/s (1,083 m.); 60 kW. Relayed by Fredriksstad, 816 kc/s (367.6 m.); Hamar, 536 kc/s (550 m.); Notodeden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (453.2 m.) and Riukan, 671 kc/s (447.1 m.).

Transmits at intervals from 11.10 a.m. 5.0 p.m.—Chamber Music by the Radio Ensemble. 6.0—German Lesson. 6.30—A Visit to a Slaughter-Ho u s e. 7.0—Announcements, Weather, and News Bulletin. 7.30—Agricultural Talk. 8.0—Time Signal. 8.1—See Stockholm. In the intervals, Weather, News and Topical Talk.

PALERMO (Italy)
Ente Italiano Audizioni Radiofoniche. 554 ke/s (542 m.); 3 kW
Transmits at intervals from 12.45 p.m.
5:30—6:30 p.m.—Dance Music and
Light Music from the Olympia TeaRoom. 8.0—Agricultural Notes,
Report of the Royal Geographical
Society and Giornale Radio. 8.20—
Popular Music on Gramophone
Records. 8.30—Time Signal, and
News Bulletin.
9.0—"Aida"—Opera (Verdi), on
Gramophone Records. In the intervals, Fashion Review and Talk.
10.55—News and Close Down.
PARIS (France)

PARIS (France)
Eiffel Tower (FLE), 207.5 kc/s (1,445.7 m.); 13 kW.
Time Signals (on 2,650 m.) at 10.26 a.m. and 11.26 p.m. (preliminary and 6-dot signals).
Transmits at intervals from 1.0 p.m.

SPARE-TIME £££'s For Enterprising Men!

Start a Profitable Business With

MACHINE MAKES MONEY

Supply the WEEKLY demand for printed material in your own District and make LARGE PROFITS in your SPARE TIME! The Possibilities are Enormous—the market HUGE. Tradesmen, Cinema Proprietors, Dance and Concert Organisers, clc., etc.—all MUST Have a regular supply of Printed Material from Week to Week. YOU could easily produce this!

If you own a Business, SAVE MONEY by doing your own Printing! Produce your own Leaflets, Circulars, Noteheadings, etc., and put the Printer's Profits into your own Pocket.





THE CAMCO SEAL IS FOUND ONLY ON GENUINE CAMCO CABINETS.

THE CAMCO "WAVERLEY" CABINET

strong in build and handsome phone motor, £5. 10. 0. in appearance. Made in two Write for the 24-page models, Senior and Junior, and Camco Catalogue, giving full finished in Oak and Mahogany. details.

The "Waverley" is a beauti- Full provision is made for an fully-made piece of furniture, electric or clockwork gramo-

Name	
Address	W.R.38

CARRINGTON MFG. CO., LTD.
Showrooms: 24, Hatton Garden,
London, E.C.1.
'Phone: HOLburn 8202
Works: S. Croydon. Journal Parlé. 8.20—Weather Forecast. 8.30—Variety Programme.
9.35—Concert with Commentary by André Delacour. Soloists: Mme. Marie-Antoinette Pradier, Leon Zighera, Jules Lemaire and Berthe Erza. Allegro, Andante and Rondo from the Hungarian Trio (Haydn). Life is a Dream (Haydn). Arietta (Paisiello). La Calandrina (Jomell). Pianoforte Solos: Waldszenen (Schumann). Three Songs (Schumann). 1935 (approx.)— (Schumann). Three Son (Schumann). 10.35 (approx.) Close Down.

PARIS (France)

Poste Parisien. 914 kc/s (328,2 m.); 1.2 kW.

Poste Parisien. 914 kc/s (328.2 m.); 1.2 kW.

Transmits at intervals from 12 noon. 6.45 p.m.—News and Announcements. 7.0—Gramophone Records, Talks and News. 7.30—Concert of Popular Music on Gramophone Records. 8-30—Gramophone Records, Talk and News. 8.45—Vocal and Orchestral Concert. Overture, "Light Cavalry" (Suppé). Waltz, Abandon (Waldteufe)). Selection from "The Czardas Princess" (Kalmán). Selection from "Pas sur la Bouche" (Yvain). Selection from "La helle Hélène" (Offenbach). Elegy (Rachmaninov). Selection from "Coups de Roulis" (Messager). Poursuites (Bousquet). Marche miniature (Ganne).

PARIS (France)

Radio-Paris (CFR). 174 kc/s (1,725 m.); 75 kW.
45 a.m.—Physical Culture Lesson.
30—Weather and Physical Culture (continued).

(continued).

7.45—Gramophone Records. Sarabande (Ferroud). Waltz, Donauwellen (Ivanovici). Selection from "The Quaker Girl" (Monckton). Selection (Lombardo).

8.0—News, Weather and Press Review.

Selection from "Circumpter the Properties".

2.30 p.m.—Gramophone Concert.
Part I. Meyerbeer Programme on
the Anniversary of his Death,
Selections from "L'Africaine."
Torch March. Selection from
"Les Huguenots." Selection from
"The Prophet." Selection from
"Robert le Diable." Part II.
Opéra-Comique Music. Selections
from "Carmen" (Bizet). Selection
from "Carmen" (Bizet). Selection from "Circumpter Music.
Selection from "Tip Toes" Opéra-Comique Music. Selections from "Carmen" (Bizet). Selection from "Ciboulette" (Hahn). Selection from "Tip Toes" (Gershwin). Selection from "Tip Toes" (Gershwin). Selection from "The Czardas Princess" (Kâlmán). Selection from "Les Mousquetaires au Couvent" (Varney). In the intervals, at 1.0—Exchange, News and Weather, and at 1.30 and 2.0—Exchange and Market Prices. 6.30—Market Prices, Weather, Agricultural Report and Racing Results. 7.0—Talk on Films: René Clair—a Great Director. 7.10—Book Review. 7.30—Elementary English Lesson. 7.45—Commercial Prices and News.

and News.

8.0—Concert given by the ExServicemen's Musical Association.
The Orchestra, conducted by Eugène
Bigot. In the intervals at 8.30—News.
Sports Notes, Weather and Review
by Paul Reboux and at 9.15—
Press Regiew and News.

POZNAŃ (Poland)

896 kc/s (335 m.); 1.9 kW.
Transmits at intervals from 11.45 a.m.
6.50 p.m.—Miscellaneous Items and
Announcements. 7.15—English Linguaphone Lesson. 7.30—Topical
Talk. 7.45—10.35—See Warsaw.
10.35—Sports Notes and Police
Report. 10.50 (approx.)—Close Down.

PRAGUE (Czechoslovakia)

PRAGUE (Czechoslovakia)

614 kc/s (488.6 m.); 120 kW.

Transmits at intervals from 11.0 a.m.
6.5 p.m.—Agricultural Report. 6.15

—Talk for Workers. 6.25—German
Transmission: Nows and Talks. 7.0

—News Bulletin. 7.5—Music Review. 7.20—See Brno Programme.
8.55—News Bulletin. 9.0—Time and
News. 9.15—Concert of Ruthenian
Music by the Vozrozdenie Choir
conducted by Gustav Pechar. Part
1. Sacred Songs. Part II. Folk
Songs. 10.0—Time and News.
10.15—Announcements. 10.20—See
Bratislava.

RADIO-SUISSE ROMANDE

RADIO-SUISSE ROMANDE
(SOTTENS) (Switzerland)
743 kc/s (403 m.); 25 kW.;
Lausanne, 442 kc/s (680 m.);
and Geneva., 395 kc/s (760 m.)
12.30 p.m.—Time Signal from Neuchâtel Observatory. 12.32—Weather
Forecast and News Bulletin. 12.40—Orchestral Concert. 1.0—Exchange
Quotations and Market Prices. 1.5
—Concert (contd.). 2.0—4.30—
Interval. 4.30—Time Signal from
Neuchâtel Observatory. 4.32 (from
Geneva)—Orchestral Concert. 6.0

Lausanne)-Programme for

Children.
6.30 (from Lausanne)—Ligh Music on Gramophone Records. 7.0—Weather Forecast. 7.1 (from Lausanne)—Gramophone Concert (contd).
7.15 (from Lausanne)—A Visit to the Printing Works of the Newspaper, Le Journal, on the Tenth Anniversary of its Foundation. 7.55—Announcements. 8.0 (from Geneva)—Talk: The Work of the Disarmament Conference.
8.10—Concert by the Station Orchestra, conducted by Ernest Ansermet. 9.30 (from Lausanne)—Cabaret

met. 9.30 (from Lausanne)—Cabaret Concert. 10.15—Weather Forecast and News Bulletin. 10.20— (from Lausanne)—Answers to Correspon-dents. 10.40 (approx.)—Close Down.

ROME (Italy)

Ente Italiano Audizioni Radio-foniche (1RO). 680 kc/s (441 m.); 50 kW. Relayed by Naples, 941 kc/s (319 m.); and 2RO, 11,810 kc/s (25.4 m.). Transmits at intervals from 8.15 a.m. 12 noon—2.0 p.m.—Gramophone

12 noon-2.0 p.m.-Gramophone Concert of Variety Music. In the intervals: Weather, Giornale Radio, Exchange, Time and Announcements. 5.0—Exchange, Programme for Children, Giornale Radio and Announcements.

dren, Giornaie Radio and Announcements.
5.30—Concert conducted by Maestro Vincenzo di Donato, relayed from the Royal Philharmonic Academy. 6.15—Giornale dell'Enit. 6.55 (from Naples)—Shipping and Sports Notes, 7.0—Agricultural Notes, Weather, Announcements, Giornale Radio and Press Review. 8.5—Gramophone Records of Variety Music. 8.45—Sports Notes and Announcements.
9.0—See Turin. 10.0—Fashion Review.

10.10—Concert of Light Music and Folk Music. March, Portabandiera (Mignone). Soprano Solos: (a) Suonno 'e fantasia (Capolongo), (b) 'A voce d' 'o mare (Sansanella). Waltz, Manola (Waldteiffel). Tenor Solo: Torna (Valente). Soprano Solo: Siente Mari' (Valente). Foxtrot, Giaccio bollente (Chant). Soprano Solos: (a) 'A 'infranscata (Lama), (b) O mare canta (Lama). Tango (Benatzky). Tenor Solo (Abraham). Soprano Solo: Canzone della neve (Mazzucchi). Foxtrot (Gifford). Soprano Solo: Passione hawayana (Lama). Tenor Passione hawayana (Lama). Tenor Solo: Donna Grazia (Ravasini). Onestep, Dolly (Simonetti). 10.55

SCHENECTADY (U.S.A.)

General Electric Company (WGY). 790 kc/s (379.5 m.); 50 kW. Re-layed at intervals by W2XAF on 190 KeJs (379.5 m.); 50 kW. Relayed at intervals by W2XAF on 9,530 kc/s (31.48 m.) and by W2XAF on 15,340 kc/s (19.56 m.). Transmits at intervals from 11.45 a.m. 8.30 p.m.—Woman's Radio Review from New York. 9.0—Book Chat. 9.15—Chester Vedder (Baritone). 9.30—Wrigley Programme from New York. 9.45—Musical Ad Men. 9.55—News Items. 10.0—Stock Reports and Police Notices. 10.15—11.0—New York Relay. 10.15—11.0—New York Relay. 10.15—11.30—Musical Weavers. 12 midnight (WGY only)—New Kenmore Orchestra. 12 midnight (W2XAF only)—Stock Reports and News Items.

Items.
12.30 a.m. (Tuesday)—4.0—New York
Relay. 12.30—Prince Albert Quarter
Hour. 12.45—Trials of the Goldbergs. 1.0—Soconyland Sketch.
1.30—Voice of Firestone, 2.0—
A. and P. Gypsies. 2.30—Parade
of the States

Dergs.
1.30—Voice of Firestone.
A. and P. Gypsies. 2.30—Parade of the States.
3.0—National Radio Forum. 3.30
—Mr. Bones and Company. 4.0—
Arm-Chair Chats. 4.15—John Albright (Crooner). 4.30—DeWitt 5.0—Gordie 5.30—New Clinton Orchestra. 5.0—Gordi Randall's Orchestra. 5.30—New Kenmore Orchestra. 6.0 (approx.)— Close Down.

SCHWEIZERISCHER LANDESSENDER (BERO-MÜNSTER) (Switzerland)

MÜNSTER) (Switzerland)

653 kc/s (459 m.); 60 kW.; Basle,
1,229 kc/s (244.1 m.); and Berne,
1,220 kc/s (246 m.).

12.28 p.m.—Time Signal from the
Neuchâtel Observatory.

Weather Forecast and News Bulletin.
12.40—Popular Music on Gramophone Records.
1.45—3.30—Interval.
3.30—Schubert Songs on Gramophone Records.
4.0—Concert by
the Station Orchestra.
5.0 (from
Zürich)—Programme for
5.30—Weather Forecast.
5.35—6.30
—Interval.
6.30—Popular Music on

MONDAY continued

Gramonhone Records. 6.50 (from Berne)—Dialogue between a Peasant and a Teacher of Agriculture. 7.20 (from Berne)—Review of Memorable Events. 7.28—Time Signal and Weather Forecast. 7.40 (from Berne)—Reading from the Works of La Fontaine and Toepfler. 8.0 (from Berne)—"Der treue Soldat"—Musical Play (Franz Schubert).

bert).
9.0 Operetta Concert by the Station
Delsarta Orchestra. Soloists: Lucia Delsarta (Soprano), Marc-André Hugues (Tenor), and André von Dielil (Bari-tone). 10.0—Weather Forecast and News Bulletin. 10.15 (approx.) tone). 10.0—W News Bulletin. Close Down.

STOCKHOLM (Sweden)

STOCKHOLM (Sweden)
Radiotjänst (SASA). 689 kc/s (436 m.); 55 kW. Relayed by Boden, 244 kc/s (1,229.5 m.); 676teborg, 932 kc/s (322 m.); Hôrby, 1,166 kc/s (257 m.); Motala, 222.5 kc/s (1,348 m.); Ostersund. 380 kc/s (770 m.); and Sundsvall, 554 kc/s (542 m.).
Transmits at intervals from 7.20 a.m. (Gymnastics and Service). 5.0 p.m.—Recital of Accordion Music, with Reading of Tales, 5.45—Gramo-phone Records of Variety Music. 6.45—Elementary English Lesson, relayed from Yönköping, 1,400 kc/s (202 m.). 7.15—Weather and News. 7.30—Parliamentary Review. 7.50—Introductory Talk to the following Transmission.

a ransmission.

8.6—" Carmen" — Opera in Four Acts (Bizet), relayed from the Royal Opera-House. 9.40 (in the interval) — Weather and News. 11.15 (approx.) Close Down.

STRASBOURG (France)

STRASBOURG (France)
Radio-Strasbourg (PTT). 869 kc/s
(345 m.); 11.5 kW.
9.30—9.45 a.m.—Tourist Report relayed from Rocanadour (Lot).
11.30—Gramaphone Concert. Selections (Beethoven): (a) Quartet in
G Major, (b) Ballad in G Minor.
Selection (Morena). Fantasia, Islamey (Balakirev). Selections
(Buxeuil): (a) Cœur de Jeannette,
(b) Reviens au village. Extase
(Ganne). Popular Song (Komzak).
Selections (Ellenberg): (a) Charlatan, (b) Cajoleuse. Amargura
(Lucchesi). Alla va el caldo
(Peppo-Rache).
12.45 p.m.—News in French and

tan, (b) Cajoleuse. Amargura (Lucchesi). Alla va el caldo (Peppo-Rache).

12-45 p.m.—News in French and German. 1.0—Time Signal.

1.2—Gramophone Concert. Impressions de Damas (Kougell). Kermesse from "Faust" (Gounod). Valse poudrée (Popy). Granada (Garcia). Potpourri of Russian Songs. Fugue in D (Marpeng). L'Hirondelle (Daquin). Gavotte (Bach). Allegressimo (Clementi). From the Rhine to the Danube (Rhode). Cachadora (Loniuto). Garufa (Colazo). In the interval at 1.15—Tourist Report from Padirace (Lot).

2.0—4.45—Interval. 4.45—Talk in French: Goethe and France. 5:0—Orchestral Concert. March, Inter nos (Maré). Waltz, Nachtfalter (Lincke). A Musical Box (Nikolaievsky). Trio for Pianoforte, Violin and 'Cello: L'Addio (di Marco). Comedy Overture (Kéler-Béla). Fleur de Mai (Kalkman). Trio from "Sigurd" (Reyer-Alder). Serenade (Hollman). Complainte and Caravane from "Marouf" (Rabaud). Polonaise in A (Chopil). 6.0—Talk in French. 6.15—Topical Talk.

alk.

30-Gramophone Concert. Eine Kleine Nachtmusik (Mozart). Overture, "Mignon" (Thomas). Arietta from "Romeo and Juliet" (Gounod). Ein Traum (Grieg). Selection from "Alceste" (Lully). Selection from "The Flying Dutchman" (Wagner). Selections (Chopin): (a) Mazurka No. 23, (b) Romance from the Concerto in E. Cœur brisé (Gillet). Erotica (Grieg).

E. Cœur brisé (Gillet). Erotica (Grieg).

(Gillet).

(Grieg).

(Grieg).

(Grieg).

(Grieg).

(Gillet).

(Grieg).

(G

"Penelope" (Faure). Suite in Old Style (Blockx). Variations aponaises (Vidal). Prelude to the Third Act of "Monna Vanna" (Février). Ballet Music from "Naila" (Gaubert). 10.30 (approx.)—Close Down.

STUTTGART (MÜHL. ACKER) (Germany)

ACKER) (Germany)
Süddeutscher Rundfunk. 832
kc/s (360.5 m.); 60 kW. Relayed
by Freiburg, 572 kc/s (570 m.).
Transmits at intervals from 6.0 a.m.
(Time, Weather and Gymnastics).
10.0 a.m.—Cinema Organ Recital
from the Works of Russian Composers, relayed from the Palace Cinema.
10.30 (from Karlsruhe).—French Horn
Ouartet Concert Frikesna

sers, relayed from the Palace Cinema.
10.30 (from Karlsrulie).—French Horn
Quartet Concert. Eriksang
(Kretschmar). Leb wohl du
goldige Aue (Knierer). Minuet
(Knierer). Waldlied (Müller).
Folk Song, Sandmännchen. Morgenständehen (Blumenstengel).
Gretelein (Küken). Landsknechtmarsch (Steinitzer).
11.0—News, Time and Weather.
12 noon.—Orchestral Concert, conducted by Gustav Görlich. Overture, "Titus" (Mozart). Rococo
Suite (Ailbout). International
Waltz Potpourri (Robrecht). Intermezzo, Wedding of the Marionettes (Kockert). Viennese
Operetta Potpourri (Robrecht).
12.50—Time, News and Announcements. 1.0—Concert from Langenberg. 1.55—News Bulletin. 2.0—
Sponsored Gramophone Concert.
2.30—Elementary Spanish Lesson.
3.35 (from Freibrig)—Reading of
Lyrics (Ludwig Freidrich Barthel),
by Irmgard Giessler. 4.30—Talk
on Stamp-collecting.
5.0—Concert from Munich. 6.15—
Time and Agricultural Notes. 6.25—
(from Mannheim)—Talk by an Architect: Cheap Houses. 6.50—10.30—
See Frankfurt.

tect: Cheap Houses. 6.50—10.30—See Frankfurt. In the interval at 7.15—Time and Weather. 10.30—News, Time and Announcements. 10.45—Elementary Chess Lesson. 11.110—Dance Music from Munich. 12 midnight (approx.)—Close Down.

TOULOUSE (France)

Radiophonie du Midi. 779 kc/s (385 m.); 8 kW. Transmits at intervals from 12.45 p.m. 5.0 p.m.—Transmission of Pictures. 5.15—Hawaiian Guitar Solos. 5.30—

5.15—Hawanan Guitar Solos. 5.30—News Bulletin.
5.45—Orchestral Concert. Prolude and Selection from "Tristan und Isolde" (Wagner). Dancing Doll (Poldini). Serenata (Braga). Concerto in A Minor for Organ and Orchestra (Bossi). The Modest Violet (Darcy). 6.15—Songs from "Siegfried" (Wagner), "La Juive" (Halévy) and "L'Africaine" (Meyerbeer).
6.30—News Bulletin. 6.45—Talk for Tourists. 7.0—Quartet in E Flat (Schubert). 7.15—Accordion Solos. 7.30—Gramophone Concert of Variety Music. 8.30—English Lesson. 8.35—News and Horse-Racing Results. 8.45—Orchestral Selection: Mascarade cortège (Lacôme). 9.0—Songs from "Louis XIV." (Parès-Van Parys): (a) Un tout petit baiser, (b) Quand on aime, (c) C'est avec des mots comme ça, (d) Henri, pourquoi n'aimes-tu pas les femmes? 9.15—Accordion Solos. Sentimentale (Vacher). Quelques Bulletin.

Orchestral Concert. Prelude and

femmes? 9.15—Accordion Solos.
Sentimentale (Vacher). Quelques
mots d'amour (Peleumeule). Les
Lilas (Dohel). Way down South

mots d'amour (Peleumeule). Les Lilas (Dohel). Way down South (Myddieton).

9.30—Light Music. 9.45—Military Music. 10.0—Selections by an Argentine Orchestra.

10.15—Songs from (a) "La Bohême" (Puccini), (b) "Les Dragons de Villars" (Maillart), (c) "The Daughter of the Regiment" (Donizetti). 10.30—News Bulletin. 10.45—Orchestral Selections: Egiogue (Rabaud). Mosaik (Zimmer). 11.0—Concert. Selection from "The Barber of Seville" (Rossini). Aria from "The Marriage of Figaro" (Mozart). Danse macabre (Saint-Saêns). Selection from "Lakme" (Delibes). Berceuse de Jocelyn (Godard). Souviens-toi (Borel-Clerc). The Blue Danube (Joh. Strauss). Séduction (Cazes). Ave Maria (Schubert). Embouteillage (Bach-Laverne). La Dacquoise (Darichen). 12 midnight—Weather, Announcements and Close Down.

TRIESTE (Italy)

Ente Italiano Audizioni Radio-foniche. 1,211 kc/s (247.7 m.); 10 kW.

Transmits at intervals from 8.15 a.m.
7.10 p.m.—Quintet Concert.
till Close Down.—See Turin.

TURIN (Italy)

TURIN (Italy)
Ente Italiano Audizioni Radiofoniche. 1,096 kc/s (273.7 m.);
7 kW. Relayed by Milan, 905
kc/s (331.5 m.), Florence, 599 kc/s
(500.8 m.) and Genoa, 959 kc/s
(312.8 m.).
Transmits at intervals from 8.15 a.m.
6.45 p.m.—Agricultural Notes and
Report of the Royal Geographical
Society. 7.5—Announcements. 7.10
—Gramophone Records of Variety
Music. 7.30 (in an interval)—Time

and Announcements. 8.0—Giornale Radio and Weather. 8.15—Concert. Intermezzo from (Schmiedt). Intermezzo from L'Amico Fritz' (Mascagni).

"L'Amico Fritz" (Mascagni).
March (Kálmán).
9.0—Orchestral Concert conducted
by Ugo Tansini, with Piatigorski
('Cello). 10.0—A Comedy in One
Act. 11.0—Giornale Radio,

VIENNA (Austria)

VIENNA (Austria)
Radio-Wiep. 581 kc/s (517 m.);
15 kW. Relayed by Graz, 852 kc/s (352.1 m.); Insbruck, 1,058 kc/s (352.1 m.); Insbruck, 1,058 kc/s (252.1 m.); Insbruck, 1,058 kc/s (253.2 m.); Klagenfurt, 662 kc/s (453.2 m.); Klagenfurt, 662 kc/s (453.2 m.); Klagenfurt, 373 kc/s (246 m.), and Sulzburg, 1,373 kc/s (218 m.).
Transmits at intervals from 9.20 a.m.
5.0 p.m.—Concert of Light Music by the Karl Haupt Orchestra. March (Lorens). Waltz, Delirien (Josef Strauss). Overture, Lachendes Leben (Rust). Selection from "The Rose of Stamboul" (Fall). Melody (Rachmaninov). Potpourri, Fahrende Musikanten (Schumann). Waltz, Mein Baden (Komzak). Song, L'amour toujours Pamour (friml). English Waltz (Gray). Six-Eight (May).
6.10—Talk: Education among Primitive Peoples. 6.35—Talk: Julius Langbehn—on the Twenty-fith Anniversary of his Death. 6.55—Talk: Reference Books and Aids to the Weck's Talk. 7.0—Notes on the Broadcasts for Schools. 7.5—English Lesson. 7.25—Time Signal, Weather Report and Programme Announcements. 7.35—Wener Bergengruen

Tail: Reference Books and Aids to the Week's Talk. 7.0—Notes on the Broadcasts for Schools. 7.5—English Lesson. 7.25—Time Signal, Weather Report and Programme Announcements. 7.35—Werner Bergengruen reads from his own Works; with Introductory Talk by Franz Spunda. 8.0—Concert by the Volksoper Orchestra, conducted by Oswald Kabasta. Soloists: Vera Schwarz (Soprano) and Joseph Schmidt (Tenor). Overture, "The Magic Flute" (Mozart). Tenor Solo: Air from "The Magic Flute" (Mozart). Tenor Solo: Air from "The Magic Flute" (Mozart). Introduction to Act II, and Soprano Solo from "Tannhäuser" (Wagner). Tenor Solo: The Stars were shining, from "La Tosca" (Puccini). Soprano Solo: Ernani, Ernani, involami, from "Ernani '(Verdi). Overture, "Sicilian Vespers" (Verdi). Soprano Solo: Aria-from "Carmen" (Bizet). Entr'acts to the Sccond and Third Acts of "Carmen" (Bizet). Tenor and Soprano Duetfrom "Carmen" (Bizet). Tenor and Soprano Duetfrom "Carmen" (Bizet). Ballet Music frem "Othello" (Verdi). Tenor Solo: Your Tiny Hand is frozen from "La Bohème" (Puccini). Soprano Solo from "La Tosca" (Puccini). Introduction to Act III of "Madame Butterfly" (Puccini). Soprano Solo from "La Tosca" (Puccini). Introduction to Act III of "Madame Butterfly" (Puccini). Duet from "Madame Butterfly" (Puccini). Duet from "Madame Butterfly" (Puccini). Duet from "Madame Butterfly" (Puccini). Polskie Radio. 212 5 kgle (a. 12).

WARSAW (Poland)

WARSAW (Poland)
Polskie Radio. 212.5 kc/s (1,411
m.); 120 kW.

11.20 a.m.—Aviation Weather Report. 11.25—Interval. 11.45—
Press Review. 11.38—Time Signal and Bugle Call from the Tower of St. Mary's Church, Cracov. 12.5 p.m.—Programme Announcements. 12.10—Light Music on Gramophone Records. 1.20—
Weather Report. 1.25—Interval.

nouncements. 12.10—Light Music on Gramophone Records. 1.25—Interval. 1.35—Light Music on Gramophone Records. 1.55—Interval. 2.45—Popular Music on Gramophone Records. 3.5—Economic Report and Exchange Quotations. 3.15—Traffic Report. 3.25—Educational Programme. 3.45—Hydrographic Report. 3.50—Talk on Contemporary Poland. 4.10—Variety Music on Gramophone Records. 4.20—Elementary French Lesson. 4.40—Popular Music on Gramophone Records. 5.10—Talk: Four Constitutions.

4.40—Popular Music on Gramophone Records. 5.10—Talk: Four Constitutions. 5.35—Concert of Light Music. 6.50—Miscellaneous Items. 7.15—Agricultural News. 7.25—Programme Announcements. 7.30—Sports Notes. 7.35—Variety Music on Gramophone Records. 7.45—Radio Journal. 8.0—Talk on Music. 8.15—"The Dragon and the Princess"—Operetta in Three Acts (Oscar Straus). 10.15—Talk: The Prime of Life. 10.30—Radio Journal. 10.35—Weather and Police Notes. 10.40—Dance Music.

WILNO (Poland)

533 ke/s (563 m.); 16 kW
Transmits at intervals from 11.58 a.m.
7.0 p.m.—Talk: The Lithuanians in
Prussia. 7.20—Humorous Programme. 7.35—Programme Announcements and Miscellaneous
Items. 7.45—See Warsaw. 12 midmight (approx.)—Close Down.

PRINCIPAL EVENTS

SYMPHONY CONCERTS

8.0 p.m. Schweizerischer Landessender: The Zurich Tonhalle Concert, conducted by Abendroth.

"The Damnation of

8.30 ,,

Strasbourg: "The Damnation of Faust" (Berlioz).
Vienna: Goethe-Haydn programme.
Berlin (Witzleben), Hamburg: Tchai-kovsky-Prokofiev programme. 8.40 9.10

CONCERTS (Vocal and Instrumental)
8.5 p.m. Heilsberg: Meyer-Helmund programme
8.15 , Warsaw: Popular Polish Music. 8.15 ,,

Copenhagen: French Suites.
Hamburg, Königs Wusterhausen:
"Maytime Concert." 10.45

OPERAS AND OPERETTAS

Bucharest: Relay from the Romanian 7.30 p.m. opera.

Stuttgart: "Macbeth" Frankfurt, 8.0 (Verdi).

Italian stations (Northern): "Hashish" (operetta). 8.45 ,,

CHAMBER MUSIC

9.10 p.m. Munich: The Szanto Quartet.

RECITALS

4.40 p.m. Hilversum: Pianoforte.

8.45 ,, 9.30 ,, Rome: Violin (Serato).
Radio-Suisse Romande: Violin duets.

10.10 ,, Warsaw: Moniuszko's Songs.

PLAYS

London:

Daventry:

8.45 p.m. Radio-Paris: "La Chance de Fran-çoise" (Porto-Riche).

9.45 , (approx.) Palermo: A Scene from from orox.) Palermo: A Scene fro Cyrano de Bergerac" (Rostand).

MISCELLANEOUS

Radio-Paris: Variety programme. Langenberg: "Westphalian verse and 8.0 p.m. 8.45 ,,

kW

m.

1,148 261.3 50

193 1,554.4 30

DANCE MUSIC 11.0 p.m. Copenhagen (till 12.30).

kc/s.

Northern: 995 301.5 50

10.15 a.m.—The Daily Service.
10.30—Time Signal (Greenwich).
10.45—11.0—"New Ways for Hard Times"—VIII.
12 noon—Reginald Foort at the

6.50—French Talk, Monsieur E. M. Stéphan.

10.35-12 midnight-Dance Music.

Professor Hermann Abendroth

TUESDAY

A native of Frankfurt-am-Main, Professor Abendroth carried out most of his studies in Munich, and it was there that he had his first conducting post with the Society of the Friends of Music. That was in 1903, when he was only 20. From Munich he went to Lübeck as conductor of the concerts and



Hermann Abendroth

operas, and, after some years in a like post at Essen, he became Director of Music, and Principal of the Conserva-toire, in Cologne. In 1918 he was made

Generalmusikdirektor and a year later was given the title of Professor. In 1922 he had charge of the title of Professor. In 1922 he had charge of the Lower Rhine Festival, and the Symphony Concerts of the Berlin State Opera are among the other big music-makings of which he has had control. He takes charge of the orchestra in this evening's programme from the Schweizerischer LANDESSENDER station.

The Damnation of Faust

(May 3)

Berlioz has left it on record himself that the story of Faust made a profound impression on him. He made its acquaintance first in a prose translation, with a few songs and shorter pieces in verse, by de Nerval, which appeared in Paris in 1827. He immediately set about composing music for parts of it, and as soon as three or four numbers were complete, he had them published at his own expense, before he had heard a note of his music played. He wrote, at that time, "my head is full of Faust; it is impossible for me to find a subject on which my imagination can exercise itself with greater advan-His next idea was to make it the subject of a descriptive symphony, and then he thought of a ballet for the opera, on the same story. Neither of these projects was carried out, however, and instead he composed the Eight Scenes from Faust, which were published in 1829. The subject was in his mind, along with many others, for the next two decades, and the whole work as we know it now, with new numbers added to the original eight, did not appear until 1846. It is a much more serious and powerful setting of Goethe's impressive story than the other French form, which the whole world knows so well—Gounod's Faust—although it fails, as any partial setting of the great drama must always fail, to realise the profundity of its meaning, always fail, to realise the profundity of its meaning, its mysticism and philosophy. But it gave Berlioz a splendid opportunity for displaying his astonishing power of dealing with big masses of choral and orchestral tone, and the work will always rank as one of his great achievements. Strasbourg is to broadcast it at 8.30 this evening.

REGIONAL NATIONAL

kW kc/s 356.3 50 London: 842 398.9 Midland: 752 25 Northern: 626 479.2

10.15 a.m. (London and Northern)—
The Daily Service.
10.30—11.0 (London and Northern)—Daventry National Programme.
11.30—12 noon (London)—Experimental Television Transmission (Baird Process) 12 noon—Reguald Foort at the Organ.

1.0 p.m.—Time Signal (Greenwich).

1.0 —Leonardo Kemp and his Piecadilly Hotel Orchestra.

1.55—Experimental Transmission by the Fultograph Process.

2.5—Nature Study. Mr. Eric Parker: "Round the Countryside."

2.30—Music. Sir Walford Davies.

3.35—French. Monsieur E. M. Stéplan: Early Stages in French.

4.0—The Scottish Studio Orchestra.

4.30—The Grosvenor House Orchestra, drrected by Joseph Meeus.

5.15 (Daventry)—The Children's Hour.

5.15 (London and Northern)—The B.B.C. Dance Orchestra.

6.0—"The First News."

6.30—Time Signal (Greenwich).

6.30—The Foundations of Music. Schumann Quartets, played by The Kutcher String Quartet.

6.50—French Talk, Monsieur E. M.

1.30—12 noun (London)—Experimental Television Transmission (Baird Process).
2 noon—A—Ballad Concert. Jack Holgate and J. Arnold Holgate (Pianoforte Duets). Walter Firth Stuart (Bartone). Sydney Errington (Viola).
o. p.n..—Gramophone Records.
1.5—The Manchester Tuesday Midday Society's Concert. Marie Dare (Violoncello), Heloise Russell Fergusson (Soprano).
o—3.0—The Midland Studio Orchestra.
o (London)—Daventry National Programme.

chestra.

4.0 (London)—Daventry
Programme.

4.0 (Northern)—Evensong. Relayed
from York Minster, York.

5.15—The Children's Hour.

6.0—"The First News."

6.30—Regional Bulletin for Farmers.

6.35 (London)—The Victor Olof
Sextet. Miette Muthesius (So-

Sextet. Miette Muthesius (Soprano).
6.35 (Midland)—The Studio Orchestra. Miranda Sugden (Soprano), Lucy Vincent (Oboe).
6.35 (Northern)—Laddie Clarke's Imperial Hydro Hotel Orchestra.
7.40 (Northern)—Operatic Concert.
8.0 (London and Midland)—A Recital of Gramophone Records.
8.45 (London)—Sydney Baynes and his Orchestra.
8.45 (Nidland)—A Military Band Programme.

Stéphan.
7.20—"Little Miss Make-Believe."
A Radio Musical Comedy. Book and Additional Lyrics by Charles Brewer.
8.20—"Artists at Work"—IV.
"Painting"—a Dialogue between Mr. Stanley Casson and Mr. Albert Rutherston.
9.0—"Time Signal (Greenwich).

9.0—Time Signal (Greenwich).
9.0—"The Second News."
9.20—Chamber Music. Geza Frid (Pianoforte). The Griller String Quartet: 'Isidney Griller (Violin), Jack O'Brien (Violin), Philip Burton (Viola), Colin Hampton (Violancello): Quartet in D Minor, for Strings (Op. 46) (Voces intimae) (Sibelius). Geza Frid: Twelve Musical Caricatures (Geza Frid). Quartet: Quartet for Strings, No. VIII (Biscay) (McEwen).

8.45 (Midland)—A Milliand Programme. 9.15 (Northern)—The North Re-gional Director: "Our Summer ground Director: "Summer Re-

gional Direction Programmes."
30 (Northern)—Gramophone Re-

cords.
9.45—"Dr. Abernethy—His Book."
A Play in One Act by Alicia Ramsey and Rudolph de Cordova.
Adapted by Dulcima Glasby.
10.15—"The Second News."

10.35—11.0 (Midland)—As London. 10.35—12 midnight (London and Northern)—Dance Music.

NOTE: THE HOURS OF TRANSMISSION ARE RE-DUCED TO BRITISH SUMMER TIME

SUMMER TIME

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW.

Transmits at intervals from 12.30 p.m.

7.0 p.m.—Concert of Military Music.

7.15—Financial Report and Exchange
Quotations. 7.25—Shipping Report.

and Weather Forecast. 7.30—
Instrumental Concert. 7.55—News

and Time Signal. 8.0—Instrumental

Concert (contd.) 8.30—Talk on Old

Algiers. 8.45—Pianoforte Solo:

Prefudes—First Book (Debussy).

9.0—Concert of Oriental Music.

9.55—Tourist Talk in English on

Algeria. 10.0 (approx.)—Close Down.

BARCELONA (Spain)
Radio-Barcelona (EAJ1). 860 kc/s
(349 m.); 8 kW.
Transmits at intervals from 8.30 a.m.
8.0 p.m.—Concert by the Station
Trio. Berceuse (Delmas). Selection from "The Twilight of the
Gods" (Wagner). Aria from the
Second Act of "Samson and
Delilah" (Saint-Saëns). Czardas
(Michiels).

Delilah " (Saint-Saens). Czurdas (Michiels).

8.30—Exchange Quotations and Programme for Women. 9.0—Fortnightly Football Talk. 9.15—Request Gramophone Records and News Bulletin. 10.0—Chimes, Weather, Market Prices and Relay of Foreign Stations. 10.30—Dance Music. 11.0—Radio Gazette for Catalonia. 11.45—Orchestral Concert. The Unfinished Symphony (Schubert). Overture, Carnival (Dvorák). 12.15 a.m. (Wednesday)—Gramophone Records of Popular Music. 1.0 (approx.)—Close Down.

BELGRADE (Yugoslavia)

BELGRADE (Yugoslavia)
697 kc/s (430.4 m.); 2.5 kW.
Transmits at intervals from 11.0 a.m.
4.0 p.m.—Light Music on Gramophone Records.
4.30—Concert by the Station Orchestra. Overture "Marinarella"
(Fucilo). Selection from "Der
Obersteiger" (Zeller). Potpourri
of Viennese Operettas (Hruby).
5.30—Gymnastics. 6.55—Time Signal and Programme Announcements.
7.0—Czech Lesson. 7.30—Beauty
Hints. 8.10—Concert of Polish
Music. Soloists: Fräulein Star-

kowska (Vocalist), Herr Andrija Hauser (Violin) and Dimitrije Geras-simenko (Pianoforte). Introductory Talk by the Polish Ambassador. 0,50—News and Sports Notes. 10.10 Popular Music on Gramophone Records.

BERLIN (Germany)

Königs Wusterhausen. 183.5 kc/s (1,635 m.); 60 kW.

Transmits at intervals from 5.45 a.m. (Weather, Gymnastics and Concert from Witzleben).

12 noon—Weather for Farmers, followed by Gramophone Concert from the Works of Mozart and Schubert, and Second Weather for Farmers. 12.55 p.m.—Nauen Time Signal. 1.30—News Bulletin. 2.0—"From Offenbach to Lehar"—II. Gramophone Concert relayed from Berlin (Witzleben). 3.0—Programme of Fairy Tales for Children. 3.30—Weather Forecast and Exchange Quotations. 3.45—Talk for Women. 4.30—See Leipzig. 3.30—Talk: The Bed of the Ocean. 6.0—We compose Tunes. 6.30—Advanced English Lesson. 6:55—Weather for Farmers. 7:0—Talk : Thoughts of the Ag2—For and Against Vivisection. 7.40—See Vienna. 8.40—Music. Talk by Dr. Hoffmann-Harnisch. 9.0—10.35—See Berlin (Witzleben). 10.45—See Hamburg. 1.230 a.m. (approx.) (Wednesday)—Close Down.

BERLIN (Germany)

Witzleben. 715 kc/s (419.5 m.); 1.5 kW. Witzleben. 715 kc/s (419.5 m.);
1.5 kW.
Transmits at intervals from 6.0 a.m.
6.25 p.m.—Dialogue: Contemporary
Problems of the Great Banks.
6.55—"The Witzleben Station informs its Listeners...", 7.0—Topical
Talk. 7.10—Labour Market Report.
7.15—Concert of Light Music relayed from the Traube Weinrestaurant.
8.0—"The Life of Justinus
Kerner"—Programme arranged by
Felix Ruttersack. 9.0—News Bulletin.
9.10—Pianoforte Concerto in B Flat
Minor. Op. 23 (Tchaikovsky), by
the Berlin Wireless Orchestra, conducted by Bruno Seidler-Winkler,
and Alfred Hochn (Pianoforte).
9.40—The Third Symphony, Op. 44
(Prokofiev), by the Berlin Wireless
Orchestra, conducted by Bruno Seidler
Winkler. 10.20—Second News.

BRATISLAVA

(Czechoslovakia) (Czechoslovakia)
1,076 kc/s (279 m.); 14 kW.
Transmits at intervals from 11.0 a.m.
7.0 p.m.—Sec Prague. 7.5—
Concert by the Topolcianky Male Voice Choir. 7.55—See Prague.
10.15—Programme Announcements.
10.20—Concert by a Cigány Band, relayed from the "Baross" Café.

BRESLAU (Germany)

923 kc/s (325 m.); 1.5 kW. Relayed by Gleiwitz, 1,184 kc/s

Relayed by Gletwitz, 1,184 kc/s (253 m.).
Transmits at intervals from 6.0 a.m 6.15 p.m.—Talk: The Disarmament Conference at Geneva, April, 1932.
6.40—Talk: The German Language.
7.5—Weather Forecast.
7.70—Orchestral Concert, conducted by Bruno Janz. Selection from "The Tales of Hoffmann" (Offenbach-Morena). Overture, Hokus-Pokus (Leuschner). Selection from "Gasparone" (Millocker).
Magyar Estek (Aggházy). Helios-Marsch (Schicke).
7.50—Weather Forecast. 7.55—Talk: Pessimism and World-Weariness.

7.55—Weather Forceast. 7.55—Talk: Pessimism and World-Weariness.

8.15—Operatic Concert, conducted by Carl Schmidt-Belden, relayed from the Concert House. Soloists: Hertha Böhike (Contratlot), Erika Darbow (Soprano), Gretl Hütter (Soprano), Barbara Reitzner (Soprano), Benno Arnold (Tenor), Hans Hotter (Baritone), Harold Krawitt (Bass), Rudolf Streletz (Tenor) and Leo Weith (Bass). Overture, "Alcestis" (Gluck). Address. Recitative and Duet for Soprano and Contralto from "Orpheus" (Gluck). Baritone and Bass Duet from "Doctor and Apothecary" ("Orpheus" (Miller). Trio for Soprano, Tenor and Basitone from "The Sisters of Prague" (Müller). Trio for Soprano, Tenor and Baritone from "Knight Roland" (Haydn). Prayer from "The Templar and the Jewess" (Marschner). Recitative and Duet from "Norma" (Bellini). Talk. Tenor Solo: Song at the Forge from "Siegfried" (Wagner). Baritone Solo: Aria from "Boris Godounov" (Moussorgsky). Waltz 'from "Der Rosenkavalier" (Richard Strauss).

10.0—Time, Weather and News. 10.15—Sports Talk. 10.30—Concert and Dance Music from the Admiralspalast in Hindenburg. 12 midnight (approx.)—Close Down.

BRNO (Czechoslovakia)

BRNO (Czechoslovakia)
878 kc/s (342 m.); 35 kW.
Transmits at intervals from 10.30 a.m.
7.0 p.m.—See Prague. 7.5—Concert
of Popular Music conducted by
M. Nevoral. 7.55—See Prague.
10.15—Announcements. 10.20—See
Prague.

BRUSSELS (Belgium) (No. 1)
I.N.R. 590 kc/s (590 m.); 15 kW.
12 noon—Gramophone Concert. 12.40—
h.m.—Weather Report. 12.40—
Gramophone Concert for Children.
5.0—Orchestral Concert, conducted
by Franz André. Cadet March
(Sousa). Potpourri of Flemish and
Walloon Airs, Radio Brussels
(Leemans). Selection from "La
Vivandière" (Godard). Selection
from "Le Chemin du Paradis"
(Heymann). Waltz, Pomona (Waldteufel). Russian Dance, Livonie
(Barch). Fantasia, American Successes (Salabert). 5.45—Concert
by Pupils of the Institute of the
Sacred Heart of Mary at Malaise.
6.20—Gramophone Records. 7.15
—Catholic Report. 7.30—Programme
for Women.
8.0—Concert by the Station TeaRoom Orchestra.
8.45—Talk on
Art.
9.0—Concert by the Radio Orchestra. BRUSSELS (Belgium) (No. 1)

toom Orchestra. 0.45—ram on the conducted by Charles Walpot. March, Liberty Bell (Sousa). Waltz, Wienerblut (Johann Strauss). Selection from "Hans the Flute Player" (Ganne). Japanese Dance (Yoshitomo). Stolz Potpourri (Dostal). Idylle passionnelle (Razigade). Rumba (Moretti). March (Ganne). Io.0—Le Journal Parlé. 10.10—Dance Music by Charles Remue and his Orchestra. 11.0 (approx.)—Close Down.

BRUSSELS (Belgium) (No. 2)

BRUSSELS (Belgium) (No. 2)
N.I.R. 887 kc/s (338.2 m.); 15 kW.
Programme in Flemish.
12 non-Trio Concert—Kleiner Wiener Marsch (Kreisler). Serenata (Moszkovsky). Czardas, for Violin (Monti). Clair de Lune from "Werther" (Massenet). Selection from "Rose-Marie" (Friml—Stothart). 'Cello Solo: Die Quelle (Schumann). Song from "The Marriage of Figaro" (Mozart). March, Adieu meiner kleine Garde-Officier (Stolz).
12.30 p.m.—Weather Forecast. 12.40—Recital of Popular Songs by Q. J. Van Trigt. 1.15—Concert by Charles Remue and his Orchestra. 5.0—Trio Concert. Marche des Doges (Rosse). Four Indian Love Lyrics (Woodforde-Finden). Salut d'amour (Elgar). The Bing Boys are here (Ayer). The Song of Songs (Moya). Two Hindu Pictures (Hansen-Lotter). Star of my Life (Silésu). Garden of Love (Wood). The Phantom Brigade (Middieton).

(Middleton).

(Middleton).

o—Concert of Descriptive Music
on Granophone Records. Second
Symphony in B Minor (Borodin).
Träume (Wagner). Schmerzen
(Wagner). A Night on the Bare
Mountain (Moussorgsky). Kleine
Serenade (Grünfeld). Rheinländer.
Traum der Senener (Heitigh).

Mlountain (Moussorgsky), Kleine Serenade (Grünfeld). Rheinländer. Traum der Sennerin (Labitzky). Aubade (Livschakov). The Dancer of Seville (Grunov). Rheinländer. Potpourri, Memories of Russia (Michaelovsky). Ich bin ja ein Reiter (Johann Strauss). Grotesque March (Sinding). Adoration (Filipucci). Serenata amorosa (Becce). Mazurka, Elsa (Doppler). Memories of Capri (Becce). Rève (d'Ambrosio). March (Krier). 7.30—Sports Notes. 8.0—Concert by the Station Symphony Orchestra, conducted by Meulemans. Soloist: Mme. Hougaerts (Vocalist, of the Flemish Royal Opera House, Antwerp). Rhapsody for String Orchestra (Gilson). Fantasia for Oboe (de Boeck). Intermezzo (Vandermeulen). Suite for Small Orchestra (Reylandt). Three Songs. 8.45—Literary Interlude. 9.0—Concert (contd.). Ballet Music from "Milenka" (Blockx). Overture, "Don Giovanni" (Mozart). Waltz, Neues Wien (Johann Strauss). Selection Ballet Music from "Milenka (Blockx). Overture, "Don Gio-vanni" (Mozart). Waltz, Neues Wien (Johann Strauss). Selection from "Lohengrin" (Wagner). Three Songs. Symphonic Poem, Moldavia (Smetana). Spanish

Three Songs. Sympnonic Tochy, Moldavia (Smetana). Spanish Dances (Granados).

10.0—Le Journal Parlé.
10.10—Concert by the Station Orchestra, conducted by Charles Walpot. Overture, "Morning, Noon and Night" (Suppé). Waltz, Guld and Silver (Lehár). Selection from "Tip-Toes" (Gershwin). Roses of Picardy (Haydn Wood). Marionettes on the

Musical Box (Armandole). Fan-tasia on Music from Sound Films (Salabert).

BUCHAREST (Romania) Radio-Bucarest. 761 kc/s (394 m.); 12 kW.

ansmits at intervals from 12 noon. Transmits at intervals from 12 noon.
5.0 p.m.—Concert by the Station Orchestra. March, from "Boccacio"
(Suppé). Waltz, Gold and Silver
(Lehár). Overture, "Tancred"
(Rossini). Selection from "The
Queen of Spades" (Tchaikovsky).
Spanish Dance No. 8 (Surasate).
Andante con Varizioni (Weber).
Overture, Night in Madrid (Glinka).
O.—News and Time Signal. 6.10
—Concert of Polish Music by the
Station Orchestra. 7.0—Readings
and Recitations. and Recitations.

7.30—Relay of an Opera. In the intervals—News Bulletin.

BUDAPEST (Hungary)

BUDAPEST (Hungary)
545 kc/s (550 m.); 18.5 kW.
Transmits at intervals from 9.15 a.m.
Also relayed on 210 metres from
7-35 p.m.—12 midnight.
6.0 p.m.—Talk. 6.30—Vocal and
Violin Recital. 7.35—Talk: Poland
and Hungry. 8.0—Variety Programme.
10.15—Pianoforte Recital. Fantasia
in A Minor (Bach). Aria variata
in A Minor (Bach). Sonata in A
Flat Major, Op. 110 (Beethoven).
Rondo in D Major (Mozart).
Variations in C Major on Ah,
vous dirai-je Maman (Mozart).
11.0—Cigány Concert from the
Café Baross. 11.15 (in the
interval)—Talkon Poland.
COPENHAGEN (Denmark)

COPENHAGEN (Denmark)
1,067 kc/s (281 m.); 0.75 kW.
Relayed by Kalundborg, 260 kc/s

I,067 kc/s (281 m.); 0.75 kW.
Relayed by Kalundborg, 260 kc/s (1,153 m.).
Transmits at intervals from 7.30 a.m. (Gymnaetics).

12 noon—Town Hall Chimes. 12.2—2.0 p.m.—String Ensemble Concert from the Palace Hotel.
3.0—Orchestral Concert, conducted by Emil Reesen. Soloist: Willy Loudrup Jensen (Vocalist). Overture, "Le roi s'amuse" (Delibes). Waltz, Sirenenzauber (Waldteufel). Three Hebrew Songs (Max Bruch). (a) Beweinet, die beweint an Babels Strand, (b) In ihrer Schönheit wandelt sie, (c) Arabiens Kamele am Jordan ziehn. Selection from "The Girl from the Golden West" (Puccini). Songs from Lehár Operettas: (a) Aria from "Schön ist die Welt," (b) Volga Song from "The Czarevitch" (Lehár). (c) Maiden, my Maiden from "Frederica," (d) You are my Heart's Delight, from "The Land of Smiles." The Entry of the Guests into the Wartburg from "Tannhäuser" (Wagner). Swedish Folk Melodies, arranged for Strings (Emil Reesen). Selection from "Iolanthe" (Tchaikovsky). March, The Honeymoon (Rosey).
5.0—Programme for Children. 5.40—Exchange Quotations and Fish Market Prices.

...—Programme for Children. 5.40 —Exchange Quotations and Fish Market Prices. 5.50—Gardening Falk. 6.20—Elementary German Jesson. 6.50—Weather and News. Market

Market Prices. 5.50—Cartening Talk. 6.20—Elementary German Lesson. 6.50—Weather and News. 7.15—Time Signal. 7.30—A Discussion: Opera and the People. 8.30—Recital of German Songs by the "Bel Canto" Male Voice Choir. Die Ehre Gottes in der Natur (Becthoven). Heilig, heilig (Schubert). Baritone Solo: Die Rose stand im Tau (Schumann). Wiegenlied (Brahms). Tenor and Baritone Duet: Schlechte Besserung (Zuccalmaglio). Die rote Nase (Wolfram). 0.0—Programme of Scandinavian Literature and Music.

Tenor and Manusch Caucalmaglio). Die rote Nase (Wolfram).

9.0—Programme of Scandinavian Literature and Music.

10.0—Recital of Old German Cembalo Music from the Works of Jacob Froberger. Toccata in G Minor. Variations on the Folk Song, "Auff die Mayerin." 10.15—News Bulletin.

10.30—Concert of French Suites by the Radio Orchestra, conducted by Launy Gröndahl. Suite for Orchestra (Saint Saëns). La Nursery—Six Children's Pieces (Inghelbrecht). Suite for Little Orchestra (Roger-Ducasse).

11.0—Dance Music from the Nimb Restaurant. 12 midnight (in an ininterval)—Town Hall Chimes. 12.30 a.m. (Wednesday)—Close Down.

DUBLIN (Ireland)

DUBLIN (Ireland)

(2RN). 725 kc/s (413 m.); 1.2 kW.
Relayed by Cork, 1,337 kc/s

(224.4 m.).

1.30—2.0 p.m.—Time Signal, Weather Forecast, Stock Report and Light Music on Gramophone Records.

6.0—Popular Music on Gramophone Records.

6.15—Programme for Children. 7.0—Light Music on Gramophone Records.

7.15—News Bulletin and British Market Report.

7.30—Time Signal. 7.31—Leigheacht Gaedhilge.

7.45—Talk.

TUESDAY continued

8.0—Station Sextet. 8.15—Amrhain.
8.25—'Cello Solos by Mme. K. A.
Pollaky. 8.40—Contralto Solos by
Kathleen Hartley. 8.50—Pib. 9.0—
'The Money Nose''—Sketch by
F. MacDonald and Company. 9.30
—Station Sextet. 9.40—Contralto -Station Sextet. 9.40-Contr Solos. 9.50-Banjo Solos. 10. Songs at the Piano by Mike No Station Sextet. 10.30—Time News, Weather Report and Signal, New Close Down

FÉCAMP (France)

Radio Normandie. 1,364 kc/s (219.9 m.); 10 kW.
Transmits at intervals from 12 noon. 7.30 p.m.—Radio Announcements. 8.0—News Bulletin. 8.30—Le Havre Review, followed by Relay of a Concert from Le Havre. 11.0—Dance Music and Variety Items. II.o—Dance Music and Variety Items. 1.0 a.m. (Wednesday)— Close Down.

FRANKFURT-am-MAIN

(Germany)
770 kc/s (390 m.); 1.5 kW. Relayed by Cassel, 1,220 kc/s (246 m.).
Transmits at intervals from 6.0 a.m.
6.50 p.m.—Dialogue: Building
Societies. 7.20—Time, Programme
Announcements, Weather and Economic Notes. 7.30—Talk by Hans
Rosbaud: The Fundamental Principles
of Music.

of Music.
8.0—"Macbeth"—Opera in Three
Acts (Verdi), relayed from the Opera
House. German Translation by
G. Göhler. 10.35—Time, Weather,
News and Sports Notes. 10.45 (till
Close Down)—See Stuttgart.

HAMBURG (Germany)

HAMBURG (Germany)
Norag (ha, in Morse). 806 kc/s (372 m.); 1.5 kW. Relayed by Bremen, 1,112 kc/s (270 m.); Flensburg, 1,373 kc/s (218 m.); Hanover, 530 kc/s (566 m.); and Kiel, 1,202 kc/s (232.2 m.). Transmits at intervals from 5.45 a.m. 5.55 p.m.—Variety Programme. 6.30—Talk on Economics: The Development of Ceylon as an Industrial Unit. 6.55—Exchange and Market Prices. 7.0—Topical Talk. 7.15—Weather Report.

7.0—Topical Talk. 7.15—Weather Report.
7.20 (from Hanover)—Vocal and Instrumental Concert from the Works of Hans Sommer. Three Songs from "The Pied Piper of Hamelin." Andante with Variations for Violin and String Quartet (Louis Spohr). Three Songs from "Der wilde Jäger." Gavotte for Violin and Pianoforte, Op. 41.
Three Songs from "Die Heide":

(a) Sonnenuntergang, (b) Unterm Machandelbaum, (c) Stiller Zwiegesang.

Machandelbaum, (e) States

8.0—North German Dialect Programme with the collaboration of the Station Orchestra and Soloists.
9.10—Concert from Berlin (Witzelben) 10.30—Time Weather, and News.
10.45—Maytime Concert by the Station Choir and Orchestra and Soloists. Rhapsody in May (Kämpfert). Spring's Awakening (C. Emanuel Bach). Choral Selection: Es rufen zum Reigen (C. Emanuel Bach). Choral Selection: Es rufen zum Reigen (Fritz Böhm). Seliges Waldgeheimnis (Kienzl). Bass Solo: Frühling lässt sein blaues Band (d'Albert). Waltz, Frühlingsstimmen (Joh. Strauss). Selection for Two Violins and Pianoforte: The Lark (Glinka). Norwegian Bridal Procession (Grieg-Halvorsen). Mixed Choir: An ihren bunten Liedern (Loewe). Four Miniatures, Satvrs and 'Nymphs (Juon). Spring (Reifner). Czardas from "La forêt enchantee" (Drigo). Overture. "Der Erlenhügel" (Kuhlau). Rustle of Spring (Sinding).

HEILSBERG (Germany) 1,085 kc/s (276.5 m.); 60 kW. Relayed by Danzig, 662 kc/s (453.2

Relayed by Danzig, 662 kc/s (453.2 m.).

Transmits at intervals from 6.0 a.m.

11.30 a.m.—1.0 p.m.—Concert by the Königsberg Opera House Orchestra. conducted by Strauss-Lanner. Overture, "The Gipsy Baron" (Strauss). Waltz, Die Werber (Lanner). Pizzicato Polka (Strauss). Waltz, Hofballtänze (Lanner). Perpetuum mobile (Strauss). Overture, "Die Fledermaus" (Strauss). Waltz, Die Pesther (Lanner). Waltz, Bei uns zu Haus (Strauss). Radetzky-Marsch (Strauss). 1.20—News Bulletin. 1.30—Part Relay of the Horse Auction from Trakelmen.

2.0—3.30—Gramophone Concert. Selection from "The Pearl Fishers" (Bizet). Romance (Palmgren).

from "Die Fledermaus" (Strauss). March, Völkerfrühling (Blanken-

March, burg).
3.30—Musical Improvisations. 4.0
—Talk: Geographical Rambles and Observations in the German Alps.
4.30—See Leipzig. 5.30—A Short Story (Kantorovicz). 5.45—Review 4.30—See Leipzig. 5.30—A Shuft Story (Kantorovicz). 5.45—Review of Books. 6.15—Agricultural Prices. 6.25—Talk: An Appeal to Pedestrians, Cyclists, and Chauffeurs—Protect Yourselves against Traffic Accidents. 6.30—Justinus Kerner—Talk and Recitations by Theodor Zenker. 7.0—Talk for Workers. 7.25—Haydn's Pianoforte Sonatas played by Rudolf Winkler. Sonata in C Minor. Sonata in E Flat Major. Sonata in B Flat Major. 8.0—Weather Forecast.

Major. Son. Weather

8.0—Weather Forecast.
8.5—Eric Meyer-Helmund Memorial
Concert—by the Königsberg Opera
House Orchestra, conducted by
Georg Wölner. Soloist: Josef
Poerner (Tenor). 9.10—Announcements.

ments.

9.20—"Woman in Caricature"—
a Radio Sequence (Heinz Rau).
10.10 (approx.)—News Bulletin.

HILVERSUM (Holland)

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW.
Programme of the Algemeene Vereeniging Radio Omroep (A.V.R.O.).

8.40 a.m.—Time Signal. 8.41—
Gramophone Records of Light Music.

10.40—Time Signal. 10.41—Daily
Service. 10.55—Gramophone Records of Variety Music.

11.10—Concert. Joh. de Jong (Pianoforte) and Marie Zorn (Vocalist).
Pianoforte Solos (Chopin): (a)
Etude Op. 25 No. 12, (b) Ballade
Op. 23 in G Minor. Songs (Grieg): (a) A Swan, (b) Erotica, (c) Last
Spring. Pianoforte Solos: (a)
Humoresque (Rachmaninov), (b)
Sanlucar de Barrameda and (c) En
la torre del castillo (Turina).
Songs: (a) Spring (Hildach), (b)
Song (Kuiler), (c) Cradle Song
(Andriessen) (d) North Sea (Hullebroeck). In the interval at 11.40—
Talk.

12.40 p.m.—Time Signal.

broeck). In the interval at 11.40—
Talk.

12.40 p.m.—Time Signal. 12.41—
Organ Recital by Pierre Palla with Violin Solos by Eddy Noordijk.

1.40—Orchestral Concert conducted by Louis Schmidt. March, Malkäfer (Becker). Spring Serenade (Drdla). En badinant (d'Ambrosio). Rhapsody (Lombardo). Serenata Napolitana (Rivelli). Marquisette (Lindsay-Theimer). Songs by Maräke van Tooren. Overture Lachendes Leben (Rust). Fantasia on the Works of Mendeissohn (Fetras). Songs by Marijke van Toren. Overture, "Peter Schmoll" (Weber). Selections (Haydn): (a) Serenade Op. 3, No. 5, for Strings, (b) Rondo all' ongarese. March, Soldier's Parade (Grit).

3.25—3.40—Interval. 3.40—Talk: Cutting out Patterns.

4.40—Pianoforte Recital by Else Nolthenius. Carnival (Schumann). Trois mouvements perpétuels (Poullenc).

5.10—Programme for Children. 6.10—Accordion Selections.

(Poulenc). to—Programme for Children. 6.10 Accordion Selections. 6.40—

Talk.
7.10—Orchestral Concert conducted by Nico Treep. March, Der Tausenkünstler (Blankenburg).
Spring Serenade (Lacombe). Norwegian Dance (Grieg). Selections (Tosti): (a) Serenade, (b) Ninon. Waltz, Love! and Spring (Waldteufel). Selection from "The Rose of Stamboul" (Fall). Serenade from "Les Millions d'Arlequin "(Drigo). Pizzicati (Meyer-Helmund). Toréador et Andalouse (Rubinstein).
8.10—English Lesson. 8.40—Time Signal.
8.41—Orchestral Concert. Selection

ignal. 41—Orchestral Concert. Selection from "Rosamunde" (Schubert). Suite from "Callirhoë" (Chami-

Suite from "Callirhoë" (Chaminade).
0.10—A Radio Play. 9.55—Light Orchestral Concert. Songs in the interval. 10.40—Weather and News. 10.55—Concert (continued). 11.40—Gramophone Records of Light Music, 12.40 a.m. (Wednesday)—Close Down.

HUIZEN (Holland) 160 kc/s (1,875 m.); 8.5 kW. Programme of the Catholic Radio Society (K.R.O.). 8.40-9.55 a.m. Gramophone Re-

Society (K.R.O.).
8.40—9.55 a.m.—Gramophone Records of Light Music. 10.40 a.m.—Variety Music on Gramophone Records. 12.10 p.m.—Religious Address. 12.40—Police Notes.
12.55—Trio Concert. That Tender Melody (von Lindern). Venetian Barcarolle (Mendelssohn). Waltz, In lauschiger Nacht (Ziehrer). Serenade (Widor). Mosaïque sur Rossini (Tavan). Spring Song (Stabel). Potpourri, Offenbachiana (Conradi). Songs without Words (de Micheli). Waltz from "Gri-Gri" (Lincke). Serenade (Braga). Finale.

Music. 2.40—Talk for Women. 3.40—Lesson in Dressmaking and Millinery. 4.40—Gramophone Records of Popular Music. 5.5—Intermediate Dressmaking Lesson. 5.40—Concert. Desire (Juel-Frederiksen). Clog Dance (Juel-Frederiksen). Potpourri, Contrasts (Robrecht). Chanson triste (Tchaikovsky). Russian Waltz, Ziganka (Worch). Prelude (Rachmaninoff). Polichinelle (Rachmaninoff). Serenade (Rachmaninoff). Balte Music from "La Gioconda" (Ponchielli). Air de ballet (Massenet). Selection from "I Pagliacci" (Leoncavallo). Une fête au Trianon (Popy). Seville (Alfonso). 7.40—Talk: The Catholic Encyclopædia. 8.10—Police Notes. 8.25—Talk. 8.40—Concert. In the interval at 9.55 (approx.)—News Bulletin. 11.40—Gramophone Records of Variety Music. 12.40 a.m. (Wednesday)—Close Down

riety Music. 12.40 a.m. (Wednesday)
—Close Down.

KALUNDBORG (Denmark)
Kalundborg Radio. 260 kc/s (1,153 m.); 7.5 kW.
See Copenhagen.

KATOWICE (Poland)

734 kc/s (408 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
5.45 p.m.—Orchestral Concert. 8.15
Concert of Popular Music. 10.10—
Recital by Alexandre Michalovsky of Songs by Moniuszko. 10.50—
Dance Music.

LAHTI (Finland)

LAHTI (Finland)

167 kc/s (1,796 m.); 54 kW. Relayed by Helsinki, 815 kc/s (368.1 m.).

Transmits at intervals from 7.10 a.m. 6.15 p.m.—Violin Recital. Elégic (Bériot). Minuet (Pugnani-Kreiser). Scherzino (Kuula). Du alter-Stefansturm (Brandl-Kreisler). Grief (Nuotio). 6.40—Recital of Hebrew Songs. 7.5—Talk. 7.30—Orchestral Concert, conducted by Toivo Haapanen. Soloist: Kure-Wallden (Pianoforte). Overture, "The Daughter of the Regiment" (Donizetti). Pastorale for String Instruments (Corelli). Pianoforte Concerto in C Minor (Mozart). Intermezzofrom "Cavalleria Rusticana" (Mascagni). Suite, The Swan Lake (Tchaikovsky). Frühlingsstimmen (Strauss).

LANGENBERG (Germany) Westdeutscher Rundfunk. 635 kc/s (473 m.); 60 kW. ransmits at intervels from 6.45 a.m.

1 ransmits at intervals from 6.45 a.m.
1.20 a.m.—Gramophone Concert.—
Overture, "Light Cavalry" (Suppé).
Two Waltzes (Waldteufel): (a)
Golden Rain, (b) Mon rêve.
Oriental Suite (Popy). Tenor Solo
from "Countess Maritza" (Kálmán). Tenor Solo from "The
Circus Princess" (Kálmán). Selections from "Der Sieger" (Heymann).

Circus Princess "(Kālmán). Selections from "Der Sieger" (Heymann).

12 noon—Concert from Stuttgart.

12.50 p.m.—Weather, News and Time.

1.0—Orchestral Concert relayed from the Hotel Reichshof, Wuppertal-Elberfeld. March, Entry of Spring (Blon). Overture, "Le roi d'Yvetot" (Adam). Waltz, Verschmähte Liebe (Lincke). Ballet Music from "Undine" (Lortzing). Selection from "Tiefland" (d'Albert). Paraphrase on Baumgartner's "Noch sind die Tage der Rosen" (arr. Manfred). First Little Suite (Michell). Selections from "Where the Lark sings" (Lehár). March, Mit Eichenlaub und Schwertern (Blon).

3.30—Economic Notes and Time Signal. 3.50—Programme for Children. 4.20—Notes on the Broadcasts for Schools. 4.30—Talk on University Life—Personality and Style. 5.0—Orchestral Concert. 6.15—Talk: German History as mirrored in German Hosports Notes. 7.15—Wireless Notes. 7.30—Economic Review: Retail Trade. 7.55—First News Bulletin.

8.9—Military Band Concert, conducted by Cellarius.

8.45—Programme of Westphalian Verse and Song. 10.0—News and Sports, followed by Silent Night.

LEIPZIG (Germany)

1.157 ke/s (250 m.); 2 kW. Re-

(I.anner). Pizzicato Polka (Strauss). Waltz, Hofballtänze (Lanner). Perpetuum mobile (Strauss). Overture, "Die Fledermaus" (Strauss). Overture, "Die Pether (Lanner). Waltz, Bei uns zu Haus (Strauss). Radetzky-Marsch (Strauss). Radetzky-Marsch (Strauss). 1.20—News Bulletin. 1.30—Part Relay of the Horse Auction from Trakelmen. Co-3.30—Gramophone Concert. Selection from "The Pearl Fishers" (Bizet). Romance (Palmgren). Dance of the Crimean Tartars (Spendiakof). Tales from the Vienna Woods (Strauss). Caprice (Lincke). Serenade (Braga). Valtz from "Cri" (Lincke). Serenade (Braga). Pinale. 2.25—Gramophone Records of Light. Wisits. 10.40.4m.—Concert Networks (Strauss). Sports, followed by Silent Night. Sports, follows for sports. Sports, follows for sports. Find the Common Sports for sports f

(Lehár). Barcelona March (Friede-

(Lehár). Barcelona March (Friedemann).
5,30—Weather and Time. 5,50—Economic Notes. 6,5—Talk for Women: The Care of the Convalescent Child. 6,30—French Lesson. 6,50—Talk (to be announced). 7,0—Talk for Young People.
7,30—Concert of German Operatic Music by the Leipzig Symphony Orchestra, conducted by Hilmar Weber. Entry of the Guests into the Wartburg from "Tannhäuser" (Wagner). Overture, "Zampa" (Hérold). Selection from "Hanneles Himmelfahrt" (Graener). Prelude to the Third Act of "Prince wider Willen" (Lohse). Selection from "Christelflein" (Pfitzner).
8,10—A Lyrical Radio Sequence from the Works of Arndt, Fichte, Goethe, Karl Hauptmann. Hebbel, Lagarde; Nietzsche, Novalis, Schleiermacher and Stifter (arr. Hans Eich). Music by Carl Reinecke and Richard Strauss. The Leipzig Symphony Orchestra, conducted by Hilmar Weber.
9,0—Economic Notes. 9,10—Concert from Berlin (Witzleben). 10,10—News Bulletin, followed by Fritz Reuter Recital with the Composer at the Pianoforte. Margarete Peiseler-Schmutzler (Soprano). Three Songs with Pianoforte accompaniment, Op. 2: (a) Matt giesst der Mond, (b) Gang durch die Nacht, (c) Der Fiedler. Two Songs from Brecht's Book of Family Prayers: (a) Vom Brot und dem Kindlein, (b) Vonder Freundlichkeit der Welt. Pianoforte Pieces and Variations. Songs for Soprano and Pianoforte: (a) So fern und so entlegen, (b) Nich der Nachtigall und nicht der Lerche Lied, (c) Ich hatte so viel dir zu berichten, (d) Einen guten Freund hat's. 11,30 (approx.)—Close Down. LJUBLJANA (Yugoslavia)
522 kc/s (574.7 m.): 2.5 kW. Transmits at intervals from 11.30 a.m. 6.0 p.m.—Reading. 6.30—Quintet

522 kc/s (574.7 m.); 2.5 kW.
Transmits at intervals from 11.30 a.m.
6.0 p.m.—Reading. 6.30—Quintet
Concert. 7.30—German Lesson.
8.0—Talk on the History of Art.
8.30—Programme relayed from Belgrade. 10.30—Time, News and Close
Down.

LWÓW (Poland) 788 kc/s (381 m.); 16 kW. Transmits at intervals from 10.0 a.m.

7.0 p.m.—Miscellaneous Items. 7.25—Talk on Politics. 7.45—See Wilno. 8.15—See Warsaw. 12 midnight (approx).—Close Down.

LYONS (France)

La Doua (PTT). 644 kc/s (465.8 m.); 1.5 kW.
Transmits at intervals from 8.0 a.m.
7.0 p.m.—Concert by the Station Orchestra. 7.30—Radio Gazette for Lyons and the South-East.
8.30—"The Damnation of Faust"—Opera (Berlioz).

MADRID (Spain)
Union Radio (EAJ7). 707 kc/s (424.3 m.); 2 kW.
Transmits at intervals from 9.0 a.m. 8.0 p.m.—Chimes, Exchange, Market Prices and Request Gramophone Concert. In the interval at 8.30—Talk by Joaquin España Cantos. 9.15—News Bulletin. 9.30—10.0—Interval. 10.0—French Lesson on Linguaphone Records: 10.30—Chimes, Time and Opera Selections on Gramophone Records: "Lucia di Lanmermoor" (Donizetti). 12.45 am. (Wednesday)—News Bulletin. 1.0—Chimes and Close Down.

MILAN (Italy)

Ente Italiano Audizioni Radicfoniche. 905 kc/s (331.5 m.);
7 kW.
See Turin.

MORAVSKÁ-OSTRAVA

(Czechoslovakia)
1,137 kc/s (263.8 m.); 11 kW.
1,137 kc/s (263.8 m

MOSCOW (Russia)

prox.)-Close Down.

Trades Union. 230.1 kc/s (1,304 m.); 100 kW.
Transmits at intervals from 5.0 a.m. 6,30 p.m.—Proletariat Radio Journal. 7.15—Programme for Komsomols. 8.0—Talk in Dutch: The First of May in the U.S.S.R. Speeches by Delegates. Talk in French: The Tactics of the Bolsheviks in the Imperialist War. 9.55—'Time Signal. 10.0—Weather Forecast. 11.0 (approx.)—Close Down.

MUNICH (Germany)

MUNICH (Germany)

563 kc/s (533 m.); 1.5 kW. Relayed by Augsburg and Kaiserslautern, 536 kc/s (560 m.) and
Nürnberg, 1,256 kc/s (239 m.).

Transmits at intervals from 6.45 a.m.

6.15 p.m.—Time, Weather and Agricultural Notes. 6.25—Talk on Economics. 6.45—Talk, 7.5—Talk on Bishop Michael Sailer, by His
Excellency Dr. Michael Buchberger,
Bishop of Regensburg. 7.30—
Soprano Song Recital by Eva Licbenberg (Contralto). Richard Staab at
the Pianoforte. 7.40—Sports Report.

8.0—Concert by the Oktavia Concertina Society.

8.40—"Der Wunderhund"—a Radio
Comedy (Manfred Sturmann).

9.10—Beethoven Chamber Music by
the Szanto Quartet. 10.0—A Dialogue
on Theatre Management. 10.20—
Time, Weather and News.

TUESDAY

continued

OSLO (Norway)

OSLO (Norway)

Kringkastingselskapet. 277 kc/s (1,083 m.): 60 kW. Relayed by Fredriksstad, 816 kc/s (367.6 m.); Hamar, 536 kc/s (500 m.); Notodden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (447.1 m.); Porsgrund, 662 kc/s (447.1 m.). Transmits at intervals from 11.10 a.m 5.0 p.m.—Concert by the Orchestra of the Cecil Restaurant. Overture, "Paragraph III" (Suppé). Emperor Waltz (Johann Strauss). Selection from "Iris" (Mascagni). Prelude (Svendsen). Aria from "Samson and Delilah" (Saint-Saéns). Russian Mazurka (Glinka). 6.0—Talk for the Housewife. 6.30—Talk twok in the Garden in Spring. 6.45—Accordion Recital of Popular Music. 7.0—Announcements, News and Weather Forecast. 7.30—English Lesson. 8.0—Time Signal. 8.1—Concert relayed from Hamar. Soloists: Asta Jörgensen (Soprano). Lydia Lissowskaya (Pianoforte) and Einar Schöyen (Violin). Selections from The Works of Händel, Rachmaninov, Schubert, "Thomé and Scandinavian Composers. 9.10—Talk: Contemporary Problems in Spain. 9.40—Weather and News Bulletin. 10.0—Topical Talk, 10.15—Helge Krog reads from his own

Works. Down. 10.45 (approx.)-Close

Works. 10.45 (approx.)—Close Down.

PALERMO (Italy)

Ente Italiano Audizioni Radiofoniche. 554 kc/s (\$42 m.); 3 kW.
Transmits at intervals from 12.45 p.m.
5:30 p.m.—Programme for Women 6:6—6.30— Light Music on Gramophone Records. 8.0—Announcements, Agricultural Notes and Giornale Radio. 8.20—English Lesson on Gramophone Records. 8.30—Announcements, Agricultural Notes and Giornale Radio. 8.20—English Lesson on Gramophone Records. 8.30—Time Signal and News Bulletin.

8.50—Concert of Chamber Music. Soloists: Olga Nicastro (Pianoforte), Rugueri ('Cello), V. Manno (Violin) and Gallesi (Oboe). Piano Solo: Papillons (Schumann). Concerto for Flute, Oboe and Harp (Berlioz). Two 'Cello Solos: (a) Largo (Veracini), (b) Tarantella (Ropper). Violin Solo: Sonata in D Major (Vivaldi-Respighi). The Kiss Seene from "Cyrano de Bergerac"—Comedy (Rostand). Concerto in G Minor for Oboe (Händel). 'Cello Solo: Sonata in G Major (Boccherini). Two Picces for Flute and Harp (Roussel). 'Three Violin Solos: (a) Selection (Mendelssohn). (b) Andalusjan Serenade (Ranzato), (c) La Campanella (Paganini). Three Pianoforte Solos: (a) Etude (Szymanovsky), (b) Doctor Gradus ad Parnassum and (c) Golliwogg's Cake-Walk (Debussy).

10.55—News and Close Down.

PARIS (France)

DARE-Walk (Debussy).

10.55—News and Close Down.

PARIS (France)

Eiffel Tower (FLE). 207.5 kc/s (1,445.7 m.); 13 kW.

Time Signals (on 2,650 m.) at 10.26 a.m. and 11.26 p.m. (preliminary and 6-dot signals).

Transmits at intervals from 1.0 p.m. 6.45 p.m.—Dramatic Programme. 7.0—Le Journal Parlé. 8.20—Weather Forecast.

8.30—Pianoforte Recital, with Introductory Talk: French Music from Seventeenth Century to the Present Day. Debussy Programme. La plus que lente. Les Deux Arabesques. Mouvement. Three Preludes: (a) La Fille aux Cheveux de Lin, (b) La Sérénade interrompue, (c) Feux d'artifice.

9.0—Quartet Concert. Second Quartet in F Major (Schumann)

Violin Solos: Recitative and Scherzo caprice (Kreisler). Quartet Selections (Dorson): (a) Le rire du faune, (b) Conte chinois, (c) La Chanson du vent. 10.0 (approx.)—Close Down.

PARIS (France)

Poste Parisien. 914 kc/s (328.2 m.); 1.2 kW.

Poste Parisien. 914 ke/s (328.2 m.);
1.2 kW.
Transmits at intervals from 12 noon.
6.45 p.m.—News and Announcements. 7.0—Gramophone Records,
Talks and News. 7.30—Concert of
Popular Music on Gramophone
Records. 8.30—Gramophone
Records, Talk and News.
8.45—Vocal and Orchestral Concert.
Overture, "Gretna Green" (Guraud). Waltz, La plus que lente
(Debussy). Rapsodie sur des
airs du Pays d'Oc (Lacombe).
Esquisse, No. 1 (Aubert). Cuadros
(Laparra). Symphonic Poem,
My Country (Smetana). Le petit
Elfe ferme l'oeil (Schmitt). Trois
Pièccs nontées (Satie). Polonaise
(Glinka). (Glinka).

10.45—News Bulletin. 10.50 (approx.)—Close Down.

prox.)—Close Down.

PARIS (France)
Radio-Paris (CFR). 174 kc/s (1,725 m.); 75 kW.
6.45 a.m.—Physical Culture Lesson.
7.30—Weather and Physical Culture (continued).
7.45—Gramophone Records. Popular Catalonian Song, El mestre (Llobet). Spanish Dance, Zapateado (Sarasate). Fandanguillo (Torroba). Spanish Dance No. 5 (Granados).
8.0—News, Weather and Press Review.

8.0—News, Weather and Press Review.

2.30 p.m.—Gramophone Concert. Selection from "La Vie Parisienne" (Offenbach). Recitation and Song from "Mozart" (Guitry and Hahn). Waltz, Gold and Silver (Lehár). Selection from "The Count of Luxembourg" (Lehár). Selections from "El amor brujo" (Falla). Serenade (Gounod). Hindu Song (Rimsky-Korsakov). Two Variety Items. Selections from "Hamlet" (Thomas). Selections from "Hamlet" (Thomas). Selections from "Hamlet" (Thomas). Selections from "Herodiade" (Massenet). In the intervals at 1.0—Exchange, News and Weather, at 1.30—Exchange and at 2.0—Exchange and Announcements.

3.45—Exchange and Market Prices.

6.30—Market Prices, Weather, Agri-

2 CH VALUE only 276 The new 1932 "World Beater" Loudon made Racket has rounded selected White Ash framewith BrownWalnut overlays to shoulders, and mahogany handle. It is strung to high tension with splendid English gut. Bludings in red and gold with latest type throat bindings, trebling and box-puring in red. A beautifully made, well-balanced Racket that is fully guaranteed in every way. **GET IT ON APPROVAL** Sent on 7 days' approval for only 2s. 6d., if satisfied pay further 2s. 6d, then complete purchase by five monthly payments of 5s. (Cash 27s. 6d.). This is 2 Guinea value, send for it to-day! E. J. HERAUD (Dept. W.R.17). NUMBER ONE, EDMONTON, LONDON, N.18.



Get those Foreign Stations

Clear of interference "by the Psychon Method" even though you do live within the shadow of a Broadcasting station; after 25 years research this unit has been so improved to ensure that a variable degree of selectivity more than sufficient to cope with the modern broadcasting conditions can now be obtained, easy to fit, cheap in price, and guaranteed to improve the selectivity of any set, mains or battery models.

The Psychon Selector can also be effectively used to eliminate the use of your aerial by the simple installation of a second earth connection, thus avoiding any possible damage from lightning.

Guarantee. We will re'und your money in full should you not be satisfied, if the selector is returned to us within 7 days of purchase undamaged. Fit a Psychon and test one to-day, from any dealer 5/ or sent direct.

To Psychon, Ltd., 4, Westminster Palace Gardens, London, S.W.1.

RUSSES ABOLISHED

The Great British RUPTURE Treatment supported by the MEDICAL PROFESSION

If you are ruptured, send now for Free Booklet describing the most wonderful appliance ever invented for your rellef and comfort. It is just a neat, washable little helt with a pad you inflate in a second to just the pressure required. You can adjust it in a moment, and it cannot possibly slip out of place. It is so light and comfortable that you positively will not know you have it on. Indeed, you will forget the rupture altogether.

It holds the Hernia with such gentle firmness that in nearly every case the broken tissues re-unite, and the rupture is conquered for ever. No wonder doctors everywhere recommend it. "The Lancet" has endorsed it. Write now to:—

Beasley Surgical Appliance Co., Dept. 103, 26 Charing Cross Rd., London. MEN for COMFORT and APPEARANCE wear a Beasley

WONDER BELT

an upright carriage compels attention. Get rid of superfluous flesh, and have an athelet's figure. Equal for value and results to the expensive belts advertised. Made from fine materials; so light in you hardly know you have it on. In grey and pink, advantage of this wonderful offer now. State waist measure and send P.O. for Over 42in. 1/6 extra. Goods exchanged or money retunded it unsuitable. Similar belt for women at same price, up to 36in., with suspenders. Over 35in.-1/6 extra.

Catalogue of Belts and Corsels for men and women free on request.

BEASLEY SURGICAL BELTS, Dept.103M,26,Charing X Rd., W.C.2





cultural Report and Racing Results.
7.0—Theatre Review. 7.15—Talk on Art. 7.30—Advanced English Lesson. 7.45—Review of the British Press, Commercial Prices and News. 8.0—Variety Programme. 8.30—News and Weather. 8.40—Review by Pierre Scize. 8.45—"La chance de Françoise"—Play (Porto-Riche), with the Collaboration of Roger Monteaux of the Comédie Française. In the interval at 9.15—Press Review and News.

PRAGUE (Czechoslovakia)

614 kc/s (488.6 m.); 120 kW.

Transmits at intervals from 10.30 a.m.
4.10 p.m.—Orchestral Concert, conducted by Fr. Dyk, relayed from
Bratislava. 5.10—German Transmission by Dr. Hugo Siebenschien.
5.25—Educational Talk. 5.45—
Programme for Children. 5.55—
Variety Music on Gramophone
Records. 6.5—Agricultural Report.
6.15—'Talk for Workers. 6.25—
German Transmission. News and
Concert from the Works of Contemporary Austrian Composers with
Introductory Talk. 7.0—News
Bulletin. 7.5—See Brno Programme.
7.55—Polish Lesson. 8.10—Literary
Report. 8.35—News Bulletin. 9.0—Time and News.
9.15—Orchestral Concert, conducted by Jeremias. Petite Suite for Violin and Orchestra, Op. 12
(Frenkl). Concerto in D Major for Violin and Orchestra (Mozart).
Selection (Martinu). 10.0—Time and News. 10.15—Announcements. 10.20—Variety Music on Gramophone Records.

RADIO-SUISSE ROMANDE 614 kc/s (488.6 m.); 120 kW. Transmits at intervals from 10.30 a.m

RADIO-SUISSE ROMANDE

RADIO-SUISSE ROMANDE
(SOTTENS) (Switzerland)
743 kc/s (403 m.); 25 kW.;
Lausanne, 442 kc/s (680 m.);
and Geneva, 395 kc/s (760 m.).
Transmits at intervals from 12.30 p.m.
4.32 p.m. (from Geneva)—Orchestral
Concert. 5.30 (from Lausanne)—
Programme for Women. 6.0 (from
Lausanne)—Light Music on Gramophone Records. 7.0—Weather Forecast. 7.1 (from Geneva)—Presentation of the Latest Gramophone
Records. 7.30 (from Lausanne)—
German Lesson. 7.55—Announcements. 8.0 (from Geneva)—Talk on
Mountaineering. 8.30—Concert
by the Station Orchestra.
9.30 (from Lausanne)—Violin Recital by MM. Desarzens. La
Visionnaire (Couperin). Sonata
(Corelli). Sonata (Leclair). Sonata
(Haydn).
10.0—Weather Forecast and News
Bulletin, 10.15 (approx.)—Close

ROME (Italy)

Ente Italiano Audizioni Radiofoniche (1RO). 680 kc/s (441 m.);
50 kW. Relayed by Naples, 941 kc/s (319 m.); and 2RO, 11,810 kc/s (25.4 m.).

Transmits at intervals from 8.15 a.m. 12 noon—Gramophone Concert of Variety Music. 12.35 p.m.—Weather. 12.45—2.0—Vocal and Instrumental Concert. Songs by Gina Menin (Soprano): Le regate veneziane (Rossini). Three Lyries in Venetian Dialect. Violin Solos by Maria Flori: (a) Andante from the Concerto in D Minor (Wieniavskyy, b) Hejre Kati (Hubay). Sextet Selections: (a) Russian Fantasia (Leopold), (b) Berceuse (Godard), Slow Foxtrot, Baby (Abel), (d) Selection from "La Tosca" (Puccini), (e) Romance (Bonnard), (f) One Step, Signorina (de Lupez). In the intervals: Giornale Radio, Exchange, Time and Announcements.

ments.
5.0—Exchange, Radio Journal for Children, Giornale Radio and Announcements.
5.30—Song Recital by Veila Capuano (Soprano). Two Old Spanish Songs (Laparra). Serenade (Gounod). Aria from "Lakmé"

Gounod). Aria from "Lakmé" (Delibes).

5.45—Variety Concert. Selection from "Le petit Duc" (Lecocq). Song Tango, Muchacha (Dolz). Schatzwalzer (Johann Strauss). Il ladro (Moleti). Bambola innamorata (Nucci). I casi sono tre (Mariotti).

6.15—Giornale dell'Enit. 6.20—Astronomical Talk. 6.55 (from Nables)—Shipping and Sports Notes. 7.0—Atmospheric Signals, Morse Lesson, Agricultural Notes, Weather, Announcements, Giornale Radio and Announcements. 8.5—Gramophone Records of Variety Music. 3.30—Sports Notes and Announcements. 8.30—Sports Notes and Announce-ments. 8.45—Orchestral Concert. Soloist: Arrigo Serato (Violin). Selection

from "La Vestale" (Spontini).
Sonata No. 7 in C Minor for Violin
and Pianoforte (Beethoven). Two
Contredances (Mozart). Invitation
to the Waltz (Weber, arranged
Berlioz). Announcements. Sonata
in C Minor for Violin and Pianoforte (Grieg). Two Selections
(Granados). Bacchanale for Orchestra (Glazounoff). Reading
(Fausto Maria Martini). Moment
musical (Schubert). Tambourin
chinois (Kreisler). Selection from
"Romeo and Juliet" (Zandonai).
News after the Programme.

SCHENECTADY (U.S.A.)

SCHENECTADY (U.S.A.)
General Electric Company (WGY).
790 kc/s (379.5 m.); 50 kW. Relayed at intervals by W2XAF on 9,530 kc/s (13.48 m.) and by W2XAD on 15,340 kc/s (19.56 m.).
Transmits at intervals from 11.45 a.m.
8.30 p.m.—Woman's Radio Review from New York. 9.0—Bridge Lesson.
9,30—Stock Reports and Police Notices. 9,45—Studio Ensemble.
9,55—News Items. 10.0—Sonata Programme from New York. 10.30—Billy Ross in Popular Songs. 10.45—Annette McCullough (Crooner). 11.0
—Joe and Eddie. 11.15—Time Signal. 11.16—New Kennore Orchestra. 11.29—Weather Report. 11.30—With Gray McClintock in the Canadian North-west.
11.45—Sonata Programme. 12 mid-might (WGY only)—General Electric Programme. 12 midnight (W2XAF only)—Stock Reports and News Items. 12.15 a.m. (Wednesday)—New Kennore Orchestra. 12.30—2.0—New York Relay. 12.30—2.0—New York Relay. 12.30—Prince Albert Quarter Hour. 12.45—Trials of the Goldbergs. 1.0—Black-stone Plantation. 1.30—True Story Hour. 2.0—Musical Programme. 2.30—4.30—New Yorke Dance Hour. 4.0—Freddy Engel's Orchestra. 4.30—Lucky Strike Dance Hour. 4.0—Freddy Engel's Orchestra. 5.0—Ralph Kirbery, The Dream Singer from New York. 5.5—Hotel New Yorker Orchestra from New York.
5.30—New Kenmore Orchestra. 6.0 (approx.)—Close Down.

S C H W E I Z E R I S C H E R

SCHWEIZERISCHER LANDESSENDER (BERO-

LANDESSENDER (BERO-MÜNSTER) (Switzerland)
653 kc/s (459 m.); 60 kW.; Basle,
1,229 kc/s (244 i m.); and Berme,
1,220 kc/s (244 i m.); and Berme,
1,220 kc/s (246 m.).
12.30 -m.—Time Signal from the
Neuchâtel Obervatory.
12.30 -Weather Forecast and News Bulletin. 12.40—Concert by the Station
Orchestra. 1.35—Weather Forecast
and Exchange Quotations. 1.45—
3.30—Interval.
3.30—Concert by the Station Orchestra (contd.). 4.0—Selections from
Operettas on Gramophone Records.
5.0 (from Basle)—Talk for Women.
5.30—Weather Forecast. 5.35—6.30
—Interval. 6.30—Mountain Songs
on Gramophone Records. 7.0 (from
Basle)—Elementary Italian Lesson.
7.28—Time Signal and Weather
Forecast. 7.30 (from Basle)—Talk:
The Swiss Illustrated Book of the
Eighteenth Century.

The Swiss Illustrated Book of the Eighteenth Century.

8.0—Fifth Popular Symphony Concert by the Tonhalle Orchestra, conducted by Hermann Abendroth, relayed from the Tonhalle, Zürich. To.o—Weather Forecast, News and Class Dawn

Ico.—Weather Forecast, News and Close Down.

STOCKHOLM (Sweden)
Radiotjänst (SASA). 689 kc/s (436 m.); 55 kW. Relayed by Boden, 244 kc/s (1,229.5 m.); Göteborg, 932 kc/s (322 m.); Hörby, 1,166 kc/s (257 m.); Ostersund, 389 kc/s (770 m.) and Sundswall, 554 kc/s (542 m.).
Transmifs at intervals from 7.20 a.m. (Gymnastics and Service) 5.0 p.m.—Song Recital by Einar Cajanus. Aftonstämning (Körling). Sjöfararen vid milan (Palmgren). Lillebarn (Nordqvist). Zueignung (Richard Strauss). A Dream (Grieg). 5.20—Reading. 5.45—Gramophone Records of Variety Music. 6.45—Elamentary French Lesson relayed from Malmö, 1,301 kc/s (231 m.). 7.15—Weather and News. 7.30—The Life of the Modern Swedish Worker—a Report from a Working Men's Union. 8.0—Musical Interlude. 8.15—Relay of a Discussion on Political Economy. 12 midnight (approx.)—Close Down.

STRASBOURG (France)

Radio-Strasbourg (PTT). 869 kc/s (345 m.); 11.5 kW. 30 a.m.—Tourist Report relayed

9.30 a.m.—Tourist Report relayed from Conques. 11.30—Gramaphone Concert. Après un rêve (Fauré). Souvenir (Drdla). Nocturne from the Quartet No. 2 (Borodin). Selection from "La

TUESDAY continued

Bohême" (Puccini). Bells across the Meadows (Ketelbey). Wedding March of a Doll (Lecocq). Aria from "Le Roi d'Ys" (Lalo). Selection from "Cavalleria Rusticana" (Mascagni). Aria from "Hérodiade" (Massenet). Serenade from "Faust" (Gounod). Overture, "Patrie" (Bizet). Les myrtes sont flétris (Fauré). Bonsoir, Madame la Lune (Marinier). Romance (Rubinstein). Serenade (Strelezky).

12.45 p.m.—News in French and German. 1.0—Time Signal.

1.2—Gramophone Concert. Sonata in G Major, Op. 13 (Grieg). Overture, "Don Pasquale" (Donizetti). Larghetto (Weber-Kreisler). Waltz (Hummel). Selection from "Le Petite Duc" (Lecocq). Overture, "Preciosa" (Weber). Mattena (Tenaro). Voz del Viento (Lucchesi). In the interval at 1.15 (approx)—Tourist Report relayed.

(Tenaro). Voz del Viento (Luc-chesi). In the interval at 1.15 (approx.)—Tourist Report relayed

(approx.)—Tourist Report relayed from Entraygues.
45—Legal Talk in French.
50—Dance Music. Onestep (Moretti).
Foxtrot, It looks like Susie. My Canary has Circles under his eyes.
Tango, Desdemona. Peppy Sugar.
Slow Foxtrot, What a fool I've been. Foxtrot, Trois. Selection (Heymann): I've never seen a smile like yours. Foxtrot, Ida, I don't wanna be blue. Tango, Philomène.
Foxtrot, Swance Stomp. Foxtrot, Théodule. Selection. Waltz, The Blue Danube (Johann Strauss).
Foxtrot.

Blue Danube (Johann Strauss).
Foxtrot.
6.0—Talk in French: Sesenheim seen by Alsatian-Painters. 6.15—Topical Talk in French: Soloist: M. Gregoire (Violin). Suite, The Sleeping Beauty (Tchaikovsky).
Prelude and Allegro for Violin (Pugnani-Kreisler). Overture, "The Merry Wives of Windsor" (Nicolai). Selection from "Tiefland" (d'Albert). Japanese Dance (Huguet). A Wedding Day on Troldhaugen (Grieg).
7.30—Time Signal. 7.32—News in French and German.
7.45—Orchestral Concert, conducted by M. Roskam. March, Blaze away (Holzmann). Waltz, Wienerbonbons (Johann Strauss). Dance (Gretchaninov). Prelude and Dance from "Das Pensionat" (Suppé). Idylle arabe (Chaminade). La Chaise à Porteurs (Chaminade). Trio from "The Mastersingers" (Wagner). March, Toledo (Kalkman).

man).
8.30 — "The Damnation of Faust"
—Opera (Berlioz). 10.30 (approx.)—
Close Down.

STUTTGART (MÜHL-

STUTTGART (MÜHLACKER) (Germany)
Süddeutscher Rundfunk. 832 kc/s (360-5 m.); 60 kW. Relayed by Freiburg, 527 kc/s (570 m.).

Transmits at intervals from 6.0 a.m.
(Time, Weather and Gymnastics).

10.0 a.m.—Pianoforte Recital, by Emmy Stilling. Fantasia in C Minor (Bach). Four Little Pieces (Haydn). Gigue (Blanchet). Selections (Chopin): (a) Impromptu in F Sharp Major, (b) Etude in E Flat Minor, (d) Impromptu-in F Sharp Major.

10.30 (from Mannheim)—Duets for Two Harps, by Johannes Stegman and Veronika Boruvka. Duet (John Thomas). Fantasia on Scottish Folk Songs for Two Harps (John Thomas).

Thomas).

o-News, Time and Weather.

25—Talk: Is Coffee harmful?

45—Sponsered Musical Pro-

ramme.
2 non—Orchestral Concert from the
Hindenburgbau. Marching Song,
Warum denn Stuttgart? (Gerhard
Ungewitter). Overture, "Oberon"
(Weber). Wiener Blut (Johann
Strauss). Viennese Song Potpourri, Wer kennt das nicht?
(Berndt Buchbinder). Selection
from "The Tales of Hoffmann"
(Offenbach).
2.50—Time, News and Announcetents.

ments.

1.0—Gramophone Concert. Rustle of Spring (Sinding). Wedding Day Troldhaugen (Grieg). The ments.

1.0—Cramophone Concert. Rustle of Spring (Sinding). Wedding Day on Troldhaugen (Grieg). The Two Grenadiers (Schumann). Nachtliche Heerschau (Glinka). Romance in F Minor (Tchaikovsky). Torch Dance of the Brides from "Feramors" (Rubinstein). Selection from "The Bartered Bride" (Smetana). Prague—a Fantasia on Bohemian National Songs (Leopold).

1.30—Report from the Trakehnen Horse Auction, relayed from Trakehnen.

—Sponsored Gramophone Records. 2.30—Advanced English Lesson. 4.0— Talk: Flowers. 4.30—Talk for Women.
5.0—Orchestral Concert, conducted
by Gustav Görlich. Soloist:
University (Raritone). Over-

o-Orchestral Concert, conducted by Gustav Görlich. Soloist: Karl Hauser (Baritone). Overture, "Athalia" (Mendelssohn). Suite Campestre (Amadei). Baritone Solos: (a) Andenken (Zähringer), (b) Wanderlied (Schumann), (c) Frühlingsfahrt (Schumann). Dr. Eckener-Marsch (Probst). Waltz, Les Sirenes (Waldteufel). Potpourri, Reminiscences of Offenbach (Fetras).

or Ottenbach (Fetras).
6.15—Time and Agricultural Notes.
6.25—Talk: The Divining Rod.
6.50—See Frankfurt. 7.20—Time and Weather. 7.30—10.35—See Frankfurt. 10.35—News, Time and Announcements. 10.45—Orchestral Concert. 12 midnight (approx.)—Close Down.

TOULOUSE (France)
Radiophonie du Midi. 779 kc/s
(385 m.); 8 kW.
Transmits at intervals from 12.40 p.m.
5.0 p.m.—Transmission of Pictures.
5.15—Orchestral Selections. Hungarian Rhapsody (Liszt). Selection from "Rosamunde" (Schubert). Aria (Bach). 5.30—News
Bulletin. 5.45—Orchestral Selections.

tion from "Rosamunde" (Schubert) Aria (Bach). 5.30—News Bulletin. 5.45—Orchestral Selections.
6.0—Sangs from (a) "Les Cloches de Corneville" (Planquette), (b) "Ciboulette" (Hahm), and (c) "Les Mousquetaires au Couvent "(Varney). 6.15—Dance Music. 6.30—News Bulletin.
6.45—Violin Solos. Kati (Hubay). Danse frivole (Dalcroze). La plus que lente (Debussy). Les Chérubins (Couperin).
7.0—Light Music. 7.30—News and Horse Racing Results. 7.45—Military Music.
8.0—Orchestral Selections from (a) "L'Enfant prodigue," (b) "Carmen" (Bizet). 8.15—Songs from "Grisélidis" (Massenet) and "The Magic Flute" (Mozart). 3.30—German Lesson.
8.35—Orchestral Selections. Beaux yeux (Iliescu). A Viennese Waltz (Benatzky). Chanson triste (Tchaikovsky). Dans les ombres (Finck). Toujours ou jamais (Waldteufel). Extase (Ganne). Potpourri (Lehár). 9.0—Songs from "La Bohème" (Puccini) and "Mirella" (Gounod). 9.15—Orchestral Selections. 9.30—Concert from the Café Albrighi. 10.30—News Bulletin. 10.45—Chansonnettes. 11.0—Light Music. 11.15—North African News. 11.30—Orchestral Selections. Selections from "Scènes pittoresques" (Massenet). Ioniziaque (Schmitt). Selection from "The Golden Cockerel" (Rimsky-Korsakov). 12 midnight—Weather, Announcements and Close Down.

TRIESTE (Italy)
Enie dela dela dela control dela control

TRIESTE (Italy)
Ente Italiano Audizioni Radiofoniche. 1,211 kc/s (247.7 m.);
10 kW.

Transmits at intervals from 8.15 a.m.
7.5 p.m.—Quintet Concert. Valida
Gens (Amadei). Selection (Winter). Marysa (Chiappo). Questo,
tu non lo sai (Serra). Selection
from "Lucia di Lammermoor"
(Donizetti). Currito de Triana
(Urmeneta). Mediaval Suite
(Amadei). La donna (Cassano). In
the interval at 7.25—English Lesson
on Gramophone Records.
8.0 till Close Down.—See Turin.

TURIN (Italy)

TURIN (Italy)

Ente Italiano Audizioni Radiofoniche. 1,096 kc/s (273.7 m.);
7 kW. Relayed by Milan, 905 kc/s
(330.5 m.); Florence, 599 kc/s
(312.8 m.); and Genoa, 959 kc/s
(312.8 m.)

Transmits at intervals from 8.15 a.m.
6.45 p.m.—Agricultural Notes. 7.0
—Announcements.
7.5—Musical Selections. Paris (Rauls).
Selection, In Dancinglandia (Malberto). In a Turkish Bazaar
(Dreyer). Monelli in testa (Criscuolo).

cuolo).
30—Time and Announcements.
31—Gramophone Records of contract Music. 8.0—Giornale Radio d Weather. 8.15—Musical Selectors. 8.30—Talk by Salvator

Gotta. "Hashish" — Operetta in 8.40 — Hashish — Operetia in Three Acts (Colantioni), conducted by Nicola Ricci. In the intervals: Talk and Announcements. Giornale Radio after the Programme.

VIENNA (Austria)

Transmits at intervals from 7.20 a.m.
5.0 p.m.—Gramophone Concert:
Part I: Edith Lorand and her
Orchestra. Part II: The Philadelphia
Symphony Orchestra, conducted by
Leopold Stokovsky. 6.15—Talk:
The Viennese Theatre in the Festival
Weeks. 6.25—Agricultural Talk.
6.45—Talk on Art. 7.10—Physical
Culture. 7.30—Time Signal, Weather
Report and Programme Announcements.

Report and Programme Announcements.
7.40—Concert of Viennese Music by the Otto Römisch Orchestra, with Dolesch and Weynert (Duets), Pepi Wichart and a Folk Music Quartet.
8.40—Part Relay from the Concert House of the Goethe-Haydn Concert by the Vienna Women's Symphony Orchestra, conducted by Viktor Keldorfer, with a Children's Choir, the Viennese Schubert Society and Soloists. Gesang der Geister- über den Wassern, for Male Voice Choir and Strings (Schubert). Rhapsody, Harzreise, for Contralto, Male Voice Choir and Orchestra (Reinez). Vanitas, vanitatum, for Male Voice Choir and Orchestra (Reiter). Three Canons by the Schubert Choir (Haydn): (a) Menschengefühl, (b) Das böse Weib (Lessing), (c) Das Hexeneinmaleins. Hochgesang der Deutschen (Haydn-Keldorfer), for Children's and Male Voice Choir, Soloists, Speaker, Orchestra and Organ. Organ.

Organ.
9-35—News, Weather Report and
Announcements. 9-50—Dance and
Light Music relayed from the Oase Restaurant.

Announcements. 9.50—Dance and Light Music relayed from the Oase Restaurant.

WARSAW (Poland)

Polskie Radio. 212.5 kc/s (1,411 m.); 120 kW.

10.0 a.m.—Service relayed from Cracow. 11.55—Time Signal and Bugle Call from the Tower of St. Mary's Church, Cracow. 12.5 p.m.—Programme Announcements. 12.10 Weather Report.

12.15—Concert by the Warsaw Philharmonic Orchestra and the "Lutnia Warszawska" Choir, conducted by Josef Oziminsky and Fierre Maszynsky. Soloists: S. Argasinska (Soprano), M. Janovsky (Tenor) and T. Zygadlo (Violin). Overture, "The Pariah" (Moniuszko). Violin Concerto in D Minor (Wieniavsky). Echo de souvenirs (Noskovsky). Ballad, Switzzianka, for Mixed Choir, Vocal Soloist and Orchestra.

2.0—Agricultural Talk. 2.20—Soloist: Eugen Maj. 2.35—Reading: A Country Lawsuit.

3.0—Concert of Light Polish Music by the Jean Rozewicz Orchestra. Soloist: Eugen Maj. (Baritone).

3.55—Programme for Children. 4.20—Light Music on Gramophone Records. 4.40—Talk: Polish Politics and Democracy. 4.55—Popular Music on Gramophone Records. 4.40—Talk: Polish Politics and Democracy. 4.55—Popular Music, by Mme. Adamska ('Cello), Josef Oziminsky Usolin) and G. Lefeld and Louis Urstein (Pianoforte). 7.6—Mjscellaneous Items: 7.25—Variety Music on Gramophone Records. 7.40—Programme Announcements. 7.45—Sketch relayed from Wilno. 8.15—Concert by the Station Orchestra, conducted by Josef Oziminsky. Soloist: W. Walewska (Soprano). Potovurri of Polish Concert of Polish: Walewska (Soprano).

ouncements. 7.45—Sketch relayed com Wilno.

15—Concert by the Station Orchestra, conducted by Josef Oziminsky. Soloist: W. Walewska (Soprano). Potpourri of Polish Melodics (Osmansky). Songs: (a) Song (Troszel), (b) Conversation with the Nightingale (Troszel), (c) May Idvil (Nieviadomsky). Overture, "Die Gräfin" (Moniuszko). Mazurka in D Major, Op. 33 (Chopin). Cracoviak and Waltz from the Baltet "Pan Twardowski" (Rozycki). Selection from "The Haunted Castle" (Moniuszko). Songs: (a) Deception (Karlovicz), (b) Snowball (Komorovsky), (c) Popular Airs (Szopsky). Cauiavienne (Lada). Cracoviennes (Rajczak). Oberek fantastique (Sonnenfeld).

Couravienne (Lada). Cracoviennes (Rajczak). Oberek fantastique (Sonnenfeld).

9.55—Talk on Chorography.

10.10—Recital of Songs by Moniuszko, sung by Alex. Michalovsky (Bass).

10.45—Sports Notes.

10.55—Interval. 11.0—Dance Music, 12 midnight (approx.)—Close Down.

WILNO (Poland)

Radio-Wien. 581 ke/s (517 m.); 15 kW. Relayed by Graz, 852 kc/s (382.1 m.); Innsbruck, 1,058 kc/s (283 m.); Klagenfurt, 662 kc/s (483.2 m.); Linz, 1,220 kc/s (266 m.); and Salzburg, 1,373 kc/s (218 m.).

PRINCIPAL EVENTS

SYMPHONY CONCERTS

8.0 p.m. Brussels No. 1 and No. 2: The New Augmented Symphony Orchestra, con-The New ducted by Defauw.

Heilsberg: Beethoven Concertos. Daventry: B.B.C. Orchestra and National Chorus, conducted by Adrian Boult. Ninth Symphony (Beethoven). 8.15

CONCERTS (Vocal and Instrumental)

6.25 p.m. Heilsberg: Motet.
7.40 , Leipzig: Military Band.
8.0 , Schweizerischer Landessender: Zither

8.30

Programme. Stockholm: Military Band. Radio-Paris: The Station Orchestra, 8.45 conducted by Eugéne Bigot.

8.45 Strasbourg: Metz Conservatoire Con-

9.25

Munich: Hans Sachse Programme. Vienna: Light Orchestral Programme 9.25 ,,

RECITALS

9.0 p.m. Warsaw: Pianoforte and Songs. 10.30 ,, Stuttgart, Frankfurt: Pianofort Stuttgart, Frankfurt: Pianoforte.

PLAYS AND TALKS

7.30 p.m. Frankfurt, Stuttgart: Spring on the

Bergstrasse.

Langenberg: Goethe's Werther Days.

Hamburg and Heilsberg: "The River
Elbe" (described in word and music).

Leipzig: Wilhelm Lehmanns 50th 8 30 9.10 9.10

birthday.

MISCELLANEOUS

7.30 p.m. Berlin (Witzleben), Breslau, Königs Wusterhausen: Old Berlin Dance Evening.

DANCE MUSIC

7.45 p.m. Vienna (till 8.45). 8.30 ,, Copenhagen (till 2.0 a.m.). 10.30 ,, Strasbourg (till 12.0). 10.30 ,,

In one form or another, the zither must be among the oldest of man's instruments of music. How

WEDNESDAY (May 4)



A. A. Gulliland. An Open-air Zither Concert

far it has altered in its design from the old Greek Κιθάρα we can only guess, but for many generations it has been popular

in the shape in which many German-speaking parts of the world may fairly regard it as their Throughout most of Tyrol, national instrument. Styria, Bavaria, and German-Switzerland, you will not easily find an inn without its zither for the entertainment of its guests. In all open-air festivals and merry-makings of the people in those parts of the world, the instrument has a big share, and contests of skill in playing it are a regular part of rustic holidays. Many of the people play it in a way which is the wonder and admiration of less gifted visitors. There are several varieties, differing in size and in the number of their strings, but the principle throughout is the same, the player plucking the strings with his right hand while he stops the notes with his left on a fretted keyboard. It has a very full and mellow tone, and whether as a solo instrument, or as our picture shows it, as an accompaniment to singing, it lends itself admirably both to outdoor and indoor music-makings. A programme of zither music is to be broadcast from SCHWEIZERISCHER LANDESSENDER today.

One of the giants of Beethoven's day, and, as a child, a pupil of Mozart's, Hummel made his first appearance in public when he was only nine. He was so successful that he at once set out on the first of a long series of concert tours, and for many years was looked up to as one of the foremost pianists of his generation. He and the great Beethoven were for many years good friends, until an un-fortunate remark of Hummel's offended the irritable Beethoven; only on his deathbed did he forgive his former friend in a touching scene of reconciliation. Despite the busy life he led as a concert pianist, he found time to compose a great deal of music, most of it for his own instrument. It is but seldom played now, but when chances are offered of hearing it, like that which RADIO-PARIS gives this evening, it impresses hearers both by its fresh vitality and by the admirable way in which it is laid out to make the fullest use of all the instrument's resources.

NATIONAL

kW. kc/s. 1,148 261.3 50 London: 193 1,554-4 30 Daventry: Northern: 995 301.5 50

10.15 a.m.—The Daily Service.
10.30—Time Signal (Greenwich).
10.45—11.0—"New Pennies, Old Purses"—I. Miss Helen Simpson.
12 noon—Quantin Maclean at the

organ.

12.45 p.m.—Gramophone Records.
1.0—Time Signal (Greenwich).
1.30—Jack Martin and his Hotel Majestic Orchestra.
2.25—Reception Test.
2.30—Biology and Hygiene for Senior Schools. Professor Winifred Cullis, C.B.E.—"Your Body Every Day."
3.0—English Literature. Miss N. Niemeyer: "Delight in Poetry."
3.25—Interval.
3.30—The Bournemouth Municipal Augmented Orchestra. Conductor, Sir Dan Godfrey. Cyril Smith (Pianoforte).
4.45—Time Signal (Greenwich).
4.45—Reginald New at the Organ.
5.15 (Daventry)—The Children's Four.

Hour.

5.15 (Daventry)—The Children's Hour.

5.15 (London and Northern)—Dance Music.
6.0—"The First News."
6.30—Time Signal (Greenwich).
6.30—The Foundations of Music. Schumann Quartets. Played by The Kutcher String Quartet.
6.50—"The Surprising World." Mr. Gerald Heard.
7.10—Talk on Farming. Sir Daniel Hall. K.C.B., F.R.S.
7.30—"Must Britain Starve?"—IV. Sir John Russell, F.R.S.
8.0—Interval.
8.15—B.B.C. Symphony Concert—XXIII. (Last Concert of the Series.) Isobel Baillie, Muriel Brunskill, Walter Widdop, Horace Stevens. The National Chorus. (Chorus-master, Stanford Robinson.) The B.B.C. Symphony Orchestra (Leader, Arthur Catterall). Conductor, Adrian Boult.
8.50—"The Second News."
9.0—Time Signal (Greenwich).
9.5—Symphony Concert. Part II.
10.25—Shipping Forecast; New York Stock Market Report.
10.30—Musings without Method.
10.45—Iz midnight—Dance Music.
11.30—Time Signal (Greenwich).

REGIONAL

kW. 842 London: 356.3 50 Midland: 752 398.9 25 Northern: 626 479.2 50

The Daily Service.

10.15 a.m. (London and Northern)—
The Daily Service.

10.30—11.0 (London and Northern)—
Daventry National Programme.

11.30—12 noon (London)—Experimental Television Transmission by the Baird Process.

12 noon—The Midland Studio Orchestra. Kathleen Watkins (Pianoforte).

1.15 p.m.—An Organ Recital by G.

(Pianoforte).

1.15 p.m.—An Organ Recital by G. D. Cunningham.

2.0—3.0—The Northern Studio Orchestra. Harold Uttley (Pianoforte).

3.30 (London and Northern)—Daventry National Programme.

5.15—The Children's Hour.

6.0—"The First News."

6.0—"The First News."
6.30 (London)—Reginald King and his Orchestra.
6.30 (Midland)—Light Music. Pattison's Salon Orchestra, under the direction of Norris Stanley.
6.30 (Northern)—The Northern Studio Orchestra. Dorothy Weaver (Songs at the Piano).
7.15 (Midland)—A Recital. 'The Midland Studio Chorus. Harry Stanier (Violoncello).
7.30 (London)—An Organ Recital by Guy Weitz.
7.45 (Northern)—A Sonata Recital by Leonard Baker (Violoncello) and Doris Baker (Pianoforte).
8.15—"Little Miss Make-Believe."

15—"Little Miss Make-Believe."
A Radio Musical Comedy. Book and Additional Lyrics by Charles

9.15 (London)—The Wireless Mili-tary Band, conducted by Charles Leggett. Waddington Cooke

tary Band, conducted by Charles Leggett. Waddington Cooke (Pianoforte).
9.15 (Midland)—Dance Music. Billy Merrin and his Commander.
9.15 (Northern)—"When I retire—North or South?" A Discussion between Mr. K. R. Brady and Professor T. H. Pear.
10.0 (Northern)—Gram. Records.
10.15—Second News Bulletin,
10.25 (Midland)—Experimental Transmission by the Fultograph Process.

Process.

Northern) Dance Music.

NOTE: THE HOURS OF TRANSMISSION ARE RE-DUCED TO BRITISH SUMMER TIME

ALGIERS (N. Africa)

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW.
Transmits at intervals from 12.30 p.m.
7.0 p.m.—Financial Report and Exchange Quotations. 7.10—Agricultural Report and Shipping Notes.
7.20—Selections by Viennese Orchestra. 7.35—Programme for Women. 7.50—News and Time Signal. 7.55—Selection from "Beau Brunnel"—Operetra (Hahn). 8.30—Review of New Books.
8.45—Concert by the Station Orchestra, conducted by Hubert Guillet. Overture, Fingal's Cave (Mendelssohn). Cinq Haï-Kaï (Pillois). Prelude and Death of Isolde, from "Tristan und Isolde" (Wagner). Le Festin de l'araignée (Roussel). Dolly (Fauré). 10.0 (approx.)—Close Down.

BARCELONA (Spain)
Radio-Barcelona (EAJ1). 860 kc/s (349 m.); 8 kW.
Transmits at intervals from 8.30 a.m.
8.0 p.m.—Concert by the Station
Trio. 8.30—Exchange Quotations and Lesson in Catalan Grammar.
9.0—Request Gramophone Records and Press Review. 10.0—Chimes, Market Prices and Exchange Quotations.

Market Prices and Exchange Quotations.

0.5—Orchestral Concert. March, The Washington Post (Sousa). Selection from "La Gran Via" (Chueca and Valverde). Waltz (Waldteufel). Oriental Dance (Bortkiewicz). Pyrrhic Dance (Bortkiewicz). Pyrrhic Dance (Breger). Mazurka brillante (Liszt).

11.0—"La Leyenda del Maestro"—Two-Act Comedy (José Ramos Martin). 12.30 a.m. (Thursday)—Gramophone Concert of Popular Music.

1.0 (approx.)—Close Down.

BELGRADE (Yugoslavia)
697 kc/s (430.4 m.); 2.5 kW.
Transmits at intervals from 9.55 a.m.
4.0 p.m.—Popular Music on Gramo-

Transmits at intervals and int

Circus Princess" (Kalman). Waltz from "Gri-Gri" (Lincke). 55—Time Signal and Programme nnouncements. 7.0—German Les-6.55—Time Signal and Programme Announcements. 7.0—German Les-son. 7.30—Cigány Music relayed from the "Rudnicanin" Restaurant. 8.0—Light Music on Gramophone Records. 8.30—Programme relayed from Zagreb, 977 kc/s (307 m.). 10.30—News and Sports Notes.

BERLIN (Germany)

BERLIN (Germany)

Königs Wusterhausen. 183.5 kc/s (1,635 m.); 60 kW.

Tansmits at intervals from 5.45 a.m. (Weather, Gymnastics and Concert from Witzleben).

12 noon—Weather for Farmers, followed by Gramophone Concert of Vocal Music and Second Weather Report for Farmers. 12.55 p.m.—Nauen Time Signal. 1.30—News Bulletin. 2.0—Wagner Concert on Gramophone Records, relayed from Berlin (Witzleben). 2.45—Through the Desert—Radio Play for Children. 3.30—Weather Forecast and Exchange Quotations. 3.45—Talk for Women; A Kitchen Garden on Balcony and Roof. 4.0—Educational Talk. 4.30—See Hamburg. 5.30—Talk: Technical Discoveries and the Industrial Crisis. 6.0—Talk: Music and Nationality.

Crisis. 6.0—Talk: Music and Nationality.

Oscillationality. 6.30—See Berlin (Witzleben). 6.55—Weather for Farmers, followed by Wireless Technical Talk. 7.10—Talk: The Economic Position of England. 7.30 till Close Down—See Berlin (Witzleben). 12 midnight—Close Down.

BERLIN (Germany)

(Witzleben). 715 kc/s (419.5 m.); 1.5 kW.

T.5 kW.

Transmits at intervals from 6.0 a.m. (Gymnastics and Concert).

5.50 b.m.—" The Musical Magazine"—Review of New Music, with illustrations.

6.30—Legal Talk.

1.50—Talk: England during the past Month

Listeners 7.0—Topical Taik.
7.10—Talk: England during the past
Month.
7.30—Old Berlin Dance Music
Evening, by the Otto Kermbach
Band, with Alexander Flessburg
(Tenor). 9.0—News Bulletin. 9.10—
See Hamburg. 10.0—Political Press
Review. 10.15—News Bulletin. 10.30
—See Munich. 12 midnight (apprxo).
—Close Down.

(France)

(PTT). 986 kc/s (304 m.); 13 kW. Transmits at intervals from 12.45 p.m. 7.30 p.m.—News and Market Prices. 7.40—Light Music on Gramophone Records. 7.55—Lottery Results. 8.0—Agricultural Talk. 8.15—News and Weather Forecast. 8.30—Recital of Songs and Melodies by Carlo Bertossa. tossa.

f Songs and Melodies by Carlo Berbesa.

50—Concert of Spring Music.
Spring March (Filipucci). The
First Swallows (Gung'l). Voici que
le Printemps (Debussy-Salabert).

Le Temps a laissé son manteau
(Charles d'Orléans). Spring Symphony (Theuriet). Gramophone
Records: (a) Spring Song, Op. 16
(Sibelius), (b) Selection from
"Samson and Delilah" (SairtSaëns), (c) May (Hahn). The
Swallows (Hirschmann-Casadesus). Spring Minuet (BeethovenSalabert). Bouffées Printanières
(Waldteufel). Spring (DebussyBranga). Gramophone Records:
(a) Salut de Printemps (DebussyBranga). Gramophone Records:
(a) Salut de Printemps, (b) Voilà
'Printemps (Pellemeulle). (c) Le
Printemps (Pellemeulle). (c) Le
Printemps chante (Marinier Poncin), (d) Le Parfum des Lilas
(Bisio). Spring Song (Mendelssohn-Salabert). Frühlingsnacht
(Schumann-Salabert). Frühlingsnacht
(Schumann-Salabert). Spring
(Verdi-Salabert). After the Programme, Bordeaux Amusemen
Guide and Time Signal.

BRATISLAVA (Czechoslovakia)

Transmits at intervals from 11.0 a.m. 7.0 p.m.—See Prague. 7.20—Choral Concert. 8.15—See Prague. 9.0—Orchestral Concert, conducted by M. Odchazel. 10.0—See Prague. 10.45—Programme Announcements.

BRESLAU (Germany)

BRESLAU (Germany)
923 kc/s (325 m.); 1.5 kW. Relayed
by Gleiwitz, 1.184 kc/s (253 m.).
Transmits at intervals from 6.0 a.m.
6.50 p.m.—Weather Forecast. 6.55
—Topical Pictures. 7.0—Workers
in the Works of Gustav Freytag
—Reading. 7.25—Weather Forecast.
7.30—See Berlin (Witzleben). 8.50
—Topical Talk:
9.10—Chamber Music by the Pozniak
Trio. Trio in B Major (Pizetti).
Trio in C Minor, Op. 101 (Brahms).

ro.20—Time, Weather, News, Sports Notes and Programme Announce-ments. 10.50—Gramophone Concert of Marches and Light Music. 12 midnight (approx.)—Close Down.

BRNO (Czechoslovakia)

BRNO (Czechosłowakia)
878 kcfs (342 m.); 35 kW.
Transmits at intervals from 11.0 a.m.
7.20 p.m.—"Spring in Northern
Moravia"—Programme of Songs and
Dance Melodies, with Introductory
Notes by M. Indra. 8.15—See
Prague. 9.0—A Radio-Drama (Josef
Bézdícek). 9.30—See Prague. 10.45
—Announcements.

BRUSSELS (Belgium) (No. 1) BRUSSELS (Belgium) (No. 1)

I.N.R. 590 kc/s (500 m.); f.5 kW.

12 noon—Concert by Max Alexys
and his Orchestra. 12.30 p.m.—
Weather. 12.40—Concert (contd.).

5.0—Religious Address by the Reverend Father A. Rey.

5.10—Belgian Sonata Recital by
Henry Wagemans (Violin) and
Charles Scharrés (Pianist). Sonata
for Violin and Pianoforte (Frémolle).

5.40—Light Music on Gramophone Records. 6.15—Agricultural
Talk.

phone Records. 6.15—Agricultural Talk.
6.30—Concert by the Station Tea Room Orchestra. Hindu March (Dupuis). Overture, "Lysistrata" (Lincke). Waltz, Hofballtänze (Lanner). Souvenir de Chopin (Fetras). Two Italian Songs. (Volpatti). Tango, Jealousy (Gade). Selection from "The Merry Widow" (Lehar). Toréador et Andalouse (Rubinstein). 7.15—Microphone Report: Belgian Railways—Goods Trains. 7.30—Medical Talk. 8.0—Concert by the Symphony Orchestra, conducted by Desiré Defauw. Soloist: Carlo Van Neste (Violin). The Unfinished Symphony (Schubert) Concerto for Violin and Orchestra (Brahms). Slavonic Dances (Dvorák). Interlude in the Old Style (Glazounov). Nell Gwynn Dances(German). Waltz, Wine, Woman and Song (Johann Strauss). In the interval, Recitations from Baudelaire. 10.0—Gardening Talk. 10.10—Dance Music by Charles Remue and his Orchestra.

BRUSSELS (Belgium) (No. 2) N.I.R. 887 kc/s (338.2 m.); 15 kW Programme in Flemish.

Programme in Flemish.

12 noon—Concert by the Max Alexys Orchestra.

12.30 p.m.—

Weather Forecast.

12.40—Concert (contd.).

5.0—Religious Address.

5.10—"I Pagliacei"—Acts One and Two (Leoncavallo), on Gramophone Records.

6.15—Frans Verschoren reads from his own Works.

6.30—Concert by the Charles Remue Orchestra.

7.15—Talk: The Danger of clearing Forests.

7.30—Theatre Review. of clearing Forests. 7.30-Review.

8.0 — Concert by the Symphony Orch-

8.0—Concert by the Symphony Orchestra, conducted by M. Desiré
Defauw. Soloist: Carlo Van Neste
(Violin). The Unfinished Symphony (Schubert). Concerto for
"Violin and Orchestra (Brahms).
Slavonic Dances (Dvorák). Interlude in modo antico (Glazounov).
Dance Suite from "Nell Gwynn"
(German). Waltz, Wine, Woman
and Song (Johann Strauss). In
the interval—Recitations from
"Faust" (Goetho) by Mme Ida
"Faust" (Goetho) by Mme Ida and Song Uonam Strauss). In the interval—Recitations from 'Faust' (Goethe) by Mme Ida Wassermann and M. Joris Diels. 10.0—Le Journal Parlé. 10.10—Orchestral Concert relayed from the Memlinc Hall, Autwerp.

BUCHAREST (Romania)

A Radio-Bucarest. 761 kc/s (394 m.);

Trausmits at intervals from 12 noon.

50 7 m.—Light Music and Romanian Music by the Station Orchestra. 6.0—News and Time Signal.

6.10—Light Music and Romanian Music (contd.) 7.0—Talk on Social Problems and Foreign Politics.

7.40—Song Recital by Mme. Marie Lydia Ciolac. Mit Myrthen und Rosen (Schumann). Der Nussbaum (Schumann). Le rideau de ma voisine (Alessandresco). Jota of Falla).

8.0—Pianoforte Recital by Georges Ciolac. Andante spinato and Polonaise brillante (Chopin). Ballad in A Fiat (Chopin). Sonatina (Negrea). Triana (Albeniz).

8.30.—Talk (to be announced).

8.45—Cello Recital by Georges Cocea. Fifth Sonata in D Major (Beethoven). Spanish Dance (Granados).

9.15—Sketch. 9.35—Song Recital by Milly Grey. 9.55—News Bulletin and Close Down.

BUDAPEST (Hungary) Radio-Bucarest. 761 kc/s (394 m.);

Also relayed on 210 metres from 5.35.
p.m. to 12 midnight.
6.10 p.m.—Italian Lesson. 6.40—
Cigány Concert. 7.40—Concert by
Members of the Royal Hungarian
High School of Music, conducted by
Errich Kleiber.

High School of Music, conducted by Erich Kleiber.

9.30—Concert from the Café Ostende.
Cigány and Jazz Music. Songs from Operetta and Sound Films, and Hun-garian Folk Music.

COPENHAGEN (Denmark) 1,067 ke/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 ke/s

1,007 ke/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 ke/s (1,153 m.).

Transmits at intervals from 7.30 a.m. 12 noon—Town Hall Chimes. 12.20 p.m.—2.0—String Ensemble Concert from the Wivex Restaurant. 3.0—Orchestral Concert, conducted by Launy Gröndahl. March, Folies Bergère (Lincke). Waltz from "Der arme Jonathan." (Millöcker). Music of the Spheres, for Strings (Rubinstein). Serenade and Gondoliera (Moszkovsky). Selection from "The Mikado (Sullivan). Talk for Women. Concert Overture, "Ruy Bias" (Mendelssolm). Selection from "Paust" (Gounod). Scherzino (Akimenko). Fantasia on Swedish Folk Melodies and Dances (arranged Södermann). Homage March from "Sigurd Jorsalfar" (Grieg).

and Dances (arranged Södermann). Homage March from "Sigurd Jorsalfar" (Grieg).

5.0—Gramophone Concert. Maria Jeritza: Elizabeth's Aria from "Tannhäuser" (Wagner). Aria from "Don Juan" (Mozart). Umberto Urbano: La mia Bandiera (Rotoli). Michail Gitovsky: Song of the Volga Boatman. The Fisk University Jubilee Singers: Little David. Terence C'Neil: When it's night-time in Nevada (Pascoe). Layton and Johnstone: Button up your overcoat (de Sylva, Brown and Henderson). The Three Ginx: Close your eyes (Carter and Tennet).

5.40—Exchange Quotations and Fish Market 'Prices. 5.50—Talk: The Danish Life-Saving Services. 6.20—Prench Lesson. 6.50—Weather and News. 7.15—Time Signal. 7.30—Talk: The Legal Position of the Illegitimate Child—Now and in the Plast. 8.0—Talk: Education in the Past and Now. 8.30 p.m.—2.0 a.m. (Thursday)—

8.2—Talk: Education in the Past and Now.
8.30 p.m.—2.0 a.m. (Thursday)—A Radio Ball for Young People.
8.30—Dance Music by Louis Preil's Dance Band, with Viktor Fischer (Pianoforte). ro.o (in an interval)—News Bulletin. rr.15—Dance Music from the Valencia. 12 midnight—Town Hall Chimes. 12.2 a.m. (Thursday)—Dence Music from the Industri Restaurant. 1.0—Dance Music from the Nimb Restaurant. 2.0 (approx.)—Close Down.

DUBLIN (Ireland)

(2RN). 725 kc/s (413 m.); 1.2 kW. Relayed by Cork, 1,337 kc/s

(2RN). 725 kc/s (413 m.); 1.2 kW. Relayed by Cork, 1,337 kc/s (2244 m.).
1.30-2.0 p.m.—Time Signal, Weather Forecast, Stock Report and Light Music on Gramophone Records. 6.0—Popular Music on Gramophone Records. 6.15—Programme for Children. 7.0—Light Music on Gramophone Records. 7.20—News Bulletin. 7.30—Time Signal. 7.31—Gaedhilg. 7.45—German Lesson. 8.0—Light Music by the Station Sextet. 8.15—Variety Programme. 8.35—Whistling Solos. 8.45—Pianoforte Solos by Dina Copeman. 9.0—German Folk Songs by Mme. Erni Ritter. 9.15—Vocal and Instrumental Recital relayed from the Abbey Lecture Hall. 9.45—Sketch by the Emer Comedy Company. 10.15—Station Sextet. 10.30—Time Signal, News, Weather Report and Close Down.

FÉCAMP (France)

Radio Normandie. 1,364 kc/s (219.9 m.); 10 kW.
Transmits at intervals from 12.0 noon. 7,30 pm.—Radio Announcements. 8.0—News Bulletin. 8.30—Concert of Light Music. 10.45—Picture Transmission. 11.0—Concert of Dance Music and Variety Items. 1.0 a.m. (Thursday)—Close Down.

FRANKFURT-am-MAIN

Talk (to be announced).

3.45 Cello Recital by Georges Cocea. Fifth Sonsta in D Major (Granados).

9.15 Sketch. 9.35—Song Recital by Milly Grey. 9.55—News Bulletin and Close Down.

BUDAPEST (Hungary)

1.54 kc/s (550 m.); 18.5 kW.

Transmits at intervals from 9.15 a.m.

Transmits at intervals from 9.15 a.m.

WEDNESDAY continued

7.25—Time, Programme Announcements, Weather and Economic Notes.
7.30—"Spring lin the Bergstrasse" (the Odenwald)—a Radio Report by Paul Laven. 8.0—See Stuttgart.
9.0—Reading from the Works of Wilhelm Lehnann on his Fiftieth Birthday. Introductory Talk by Dr. Ludwig Kunz. Reader: Karl Graef.
9.30—11.15—See Stuttgart.
11.15—Concert Relay. 12 midnight (approx.)
—Close Down.

HAMBURG (Germany)

HAMBURG (Germany)

Norag (ha, im Morse). 806 kc/s (372 m.); 1.5 kW. Relayed by Bremen, 1,112 kc/s (270 m.); Flensburg, 1,373 kc/s (218 m.); Hanover, 530 kc/s (566 m.); Hanover, 530 kc/s (566 m.); Hanover, 530 kc/s (523.2 m.).

Transmits at intervals from 5.45 a.m. 4.30 p.m.—Famous Composers of the Eighteenth Century—Concert by the Station Orchestra, conducted by José Eibenschütz. Soloist: Barwasser (Flute). Symphony in D. Major without the Minuet (Mozart). Concerto for Flute—the Goldfinch (Vivaldi). Three Dance Pieces (Grétry-Mottl). 5.30—Talk: North German Dialect in the Towns.

5.55 (from Bremen)—Opening of the Worpswede Artists' Spring Exhibition at Worpswede. Address by Wilhelm Scharrelmann. Four Songs (Ernst Licht): (a) Der Mai, (b) Der Rosengarten, (c) Frühlingszeit, (d) Das Vogelorakel. Recitations. Four Songs (Ernst Licht): (a) Das Gehsimmis, (b) Der sonderbare Vogel, (c) Die schönste Jagd, (d) Frühlingsliedchen.

6.30—Talk: The Position of the Teacher in Modern Times. 6.55—Exchange and Market Prices. 7.0—Topical Talk. 7.15—Weather Report, 7.20—Heino Landrock reads from his own Works.

7.50 (from Kiel)—Concert by Unemployed Mussicians, conducted by Hans Döring. Overture, "Nebuchadnezzar" (Verdi). Two Gipsy Dances (Heidingsfeld). Second Little Suite (Witchell). Free Radio Sequence by Hans Leip and Hans Bodenstedt. Music by Hermann Erdlen. 10.10—Time, Weather and News. 10.30—Concert of Light Music.

HEILSBERG (Germany)
1,085 kc/s (276.5 m.); 60 kW.
Relayed by Danzig, 662 kc/s

Relayed by Bunney, (453.2 m.), (453.2 m.), ransmits at intervals from 6.0 a.m. (Gymnastics and Concert). 1.40 a.m.—Concert from Leipzig. 5. p.m.—Gramophone Concert of 5. p.m.—Gramophone Concert of 2.30—3.25—Interval. 11.40 a.m.—Concert of 11.5 p.m.—Gramophone Concert of Light Music, 2.30—3.25—Interval. 3.25—Talk for Housewives, 3.35—for Children, 4.5—in Schools

3.25—Talk for Housewives. 3.35—Programme for Children. 4.5—Talk: Lantern Slides in Schools. 4.30—Concert from Hamburg. 5.30—Talk: 5.55—Gramophone Records of Light Music. 6.15—Agricultural Prices. 8.25—"Das Gebet des Herrn," Op. 105, for Three Choirs a capella (Arnold Mendelssohn), relayed from the Neurossgärter Kirche, Königsberg. 7.10—Health Talk. 7.25—Weather Report. 7.40—Reading of a Short Story.

Weather Report. 7.40—Reading or a Short Story.

8.0—Beethoven Concert by the Königsberg Opera House Orchestra, Rudolf Winkler (Pianoforte) and the Ninke Trio. Pianoforte Concertor in C. Major, No. 1.
Triple Concerto in C. Major, Op.

50.

9.10—Programme from Hamburg, followed by Weather, News and Sports Notes.

10.30—Concert from Munich. 12 midnight (approx.)—Close Down.

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW.
7.25—10.40 a.m.—Programme of the
Workers' Radio Society (V.A.R.A.).
7.25—7.40 and 8.10—8.25—Gymnastics. 8.40—Gramophone Records of
Variety Music.
10.40—Religious Programme by the
Liberal Protestant Radio Society
(V.P.R.O.)

(V.P.R.O.).

10.55-11.40-V.A.R.A. Programme.
Trio Concert, with Gramophone
Records of Variety Music.
11.40-12.10 p.m.—Talk arranged
by the Peoples' Radio University
(R.V.U.).

12.40—7.10—V.A.R.A. Programme.
12.40—Septet Concert. March,
The Juggler (Rosey). Waltz,
Lotus Flowers (Olsen). Chinese
Piece (Christinė). Gramophone
Records of Variety Music. Schlagerparade (Golwyn). Melody in
F (Rubinstein). Gramophone
Records of Variety Music. Potpourri, From Gluck to Wagner
(Schreuer). Dir sing ich mein
Lied (Lehár). Foxtrot, Das gibt's
nur einmal (Heymann). Gramophone Records of Variety Music.
Overture, "Martha" (Flotow). In
Himmel gibt es kein Pilsner Bier
(Schwarz). Pour un baiser (Tosti).
Gramophone Records of Variety
Music. Selection from "Ta
Bouche" (Yvain). March, Mit
Standarten (Blon).
2.25—2.55—Interval. 2.55—Culinary Talk.
3.40—Pianoforte Recital. Prelude
and Fugue (Bach). Ballade,
Op. 47 (Chopin). Jardins
sous la pluie (Debussy). Alboarda
del Gracioso (Ravel). Gramophone Records of Variety Music in
the interval. 4.10—Programme
for Children.
6.10—Trio Concert. Baci al buio
(de Micheli). Sous la feuillée
(Thomé). Selection from "Samson and Delilah" (Saint-Saëns).
Gramophone Records of Variety
Music. Dopo (Tosti). Screnade
(Widor). Liebesträume (Liszt).
Viennese Dance (Friedmann-Gartner). Gramophone Records of
Variety Music. Caprice viennois
(Kreisler). Jota (Falla-Kochansky).
Selection from "La Bohème"
(Puccini-Alder).
Chess Lesson.
7-40—Trogramme of the
People's Radio University (R.V.U.).
Chess Lesson.

(Puccini-Aider).

7.10—7.40—Programme of the People's Radio University (R.V.U.).

Chess Lesson.

7.40 till Close Down—V.A.R.A.

Programme.

7.40—Talk: The Principles of the Workers' Socialist Party.

8.10—Orchestral Concert of Contemporary Music, conducted by Hugo de Groot.

Soloist: J. Feltkamp (Fute).

8.40—"The Adventures of Messrs. Wakker and Tropenduit."

8.55—Organ Recital. In the Sunny South (Bodewalt-Lampe). Valse triste (Sibelius).

Baby's Birthday Party (Rozel).

Judea (Halter).

9.25—"Alone Together"—a Radio Humoresque (Emma Schiller), translated by Martha Belinfante-Dekker.

9.55—"Al New Dress Shirt"—a Radio Humoresque (Emma Schiller), translated by Martha Belinfante-Dekker.

9.55—"A New Dress Shirt"—a Radio Pluy (Kalf-Hermans).

11.10—Concert (cond.).

11.10—News Bulletin.

11.10—News Bulletin.

11.10—News Bulletin.

11.10—News Bulletin.

11.10—Remonday.—

Close Down.

HILIZEN (Holland)

HUIZEN (Holland)

HUIZEN (Holland)

160 ke/s (1,875 m.); 8.5 kW.
Programme of the Christian Radio Society (N.C.R.V.).

8.40 am.—Bible Reading. 8.55—
10.10—Gramophone Records of Light Music. 10.40—Choral Concert. 11.10—Programme for Invalids. 11.40—Harmonium and Soprano Recital. 12.40 p.m.—Police Notes.

12.55—Concert. Mlle J. Wennips (Soprano), M.H. Hermann (Violin), M.H. vd. Horst ('Cello) and Mme v.d. Horst-Bleekrode (Pianoforte). Sonata for Violin, 'Cello and Pianoforte (Albinoni). Five Religious Songs. Sonata in F. Major (Händel). Recitative and Aria from "Acis and Galatea" (Händel). Aria from "Atlanta" (Händel). Aria from "Atlanta" (Händel). Three Biblical Songs (Dvorak). Pianoforte Solos: (a) Forest Calm (Dvorak), (b) Chanson de nuit (Elgar), (c) D'un cahier d'esquisses (Debussy). Soprano Solos: (a) Zonnelied (Rennes), (b) Chanson (Zweers), (c) De Nachtegall (Zagwin), (d) 't Meezeken (Mortelmans). Selection from "Lohengrin" (Wägner).

2.40—3.10—Interval. 3.10—Religious Reading.
3.40—Concert. M. H. Franken (Violin and Viola); M. L. Ostdam (Flute) and Mme. C. J. Brandes-

deading.

40—Concert. M. H. Franken
(Violin and Viola); M. L. Ostdam
(Flute) and Mme. C. J. BrandesHaus (Pianoforte). Sonata in C
Minor (Bach). Sonata in G Major (Valentin-Respighi). Sonata in G. Minor (Händel). Sonata in G. Op. 2 (Aubert). Sonata in G.

Major (Marcello). Sonata in E
Minor (Loeillet).
5.40—Programme
6.40—Agricultural Talk. 7.25—
Talk. 7.40—Talk. 8.10—Police Notes.
3.25—Religious Notes. 8.40—Gala
Programme relayed from the Zoo,
Rotterdam. 10.40—Talk for Parents.
11.10—News. 11.20—Gramophone
Records of Light Music. 12.10 a.m.
(Thursday)—Close Down.

KALUNDBORG (Denmark) Kalundborg Radio. (1,153 m.); 7.5 kW. Sec Copenhagen.

KATOWICE (Poland)

734 kc/s (408 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
5.35 p.m.—Concert of Light Music.
8.15—Orchestral Concert. 9.0—
Soloist Concert. 11.0—Answers to Correspondence in French.

LAHTI (Finland)

167 kc/s (1,796 m.); 54 kW. Relayed by Helsinki, 815 kc/s (368.1 m.).

Transmits at intervals from 7.10 a.m. 6.40 p.m.—Talk. 7.5—Polish National Evening. 8.45—News in Finnish and Swedish.

LANGENBERG (Germany)
Rundfunk. 635

Westdeutscher Rundfunk. 635
kc/s (473 m.); 60 kW.
Transmits at intervals from 6.45 a.m.
11.20 a.m.—Music for Schools 12
noon—Concert from Munich.
12.50 p.m.—Weather, News and Time
Signal.

ignal.

o — Orchestral Concert, conducted by Wolf. March, Der deutsche Ozeanflieger (Becher). Waltz Wiener Frauen (Strauss). Selection from "The Ace of Hearts" (Künneke). Selections from "Mignon" (Thomas). Im wogenden Ährenfeld (Dransmann). Murmelder, Liftsber (Henry).

"Mignon" (Thomas). Im wogenden Ahrenfeld (Dransmann). Murmelndes Lüftchen (Jensen). Russian Rhapsody on Motives from "Prince Igor" (Borodin). A Wedding Day on Troldhaugen (Grieg): Selection from "Das Dorf ohne Glocke" (Künneke). 2.39—Sponsored Gramophone Concert. 3.30—Economic Notes and Time Signal. 2.59—Programme for Children. 4.20—Talk: The Women's Movement. 4.30—Talk: The Women's Movement. 4.30—Talk: Experiments with the Montessori Method in the Elementary Schools. 5.0—Concert from Frankfurt. 6.15—Talk on Heresies of the Day. 6.40—Talk: Garden Suburbs. 7.0—Weather, Time, Economic and Sports Notes. 7.15—Talk on Health: Sensible Clothes. 7.30—Legal Talk. 7.55—First News Bulletin. 8.0—The World on Gramophone Records —Songs from Sweden. 8.30—Goethe Programme — the Werther Period revealed in Goethe's Works. 10.10—News and Sports Notes. 10.30—See Munich.

LEIPZIG (Germany)

1,137 kc/s (259 m.); 2 kW. Re-layed by *Dresden*, 941 kc/s (319 m.). Transmits et intervals from 6.0 a.m. 6.10 p.m.—Educational Talk. 6.35— Italian Lesson. 6.55—Talk (to be announced). 7.5—Talk: German Industry revealed by the Leipzig Spring Fair, 1932.

dustry revealed by the Leipzig Spring Fair, 1932.
7.30—Band Concert, conducted by Hermann Thiele, March, Unter der Friedenssonne (Blon). Overture, "Pique Dame" (Suppé). Oriental Suite (Popy). March, Pro Gloria et Patria (Ruhmohr). Finale from "Ariele, die Tochter, der Luft" (Emanuel Bach). Fantasia, Waldteufeleien (Waldteufel). Spanish Dances, Nos. 2 and 5 (Moskovsky). Potpourri, Jung Deutschland (Weninger). Parade Marches.
9.0—Topical Report.
9.10—Talk: Wilhelm Lehmann on the Fiftieth Anniversary of his Birth.
9.50—A Dialogue: Contradiction in Criticism. 10.20—News Bulletin, followed by Concert from Munich.
12 midnight (approx.)—Close Down.

LJUBLJANA (Yugoslavia)

522 kc/s (574.7 m.): 2.5 kW.
Transmits at intervals from 12.15 p.m.
6.0 p.m.—Quintet Concert. 7.0—
Russian Lesson. 7.30—Literary
Talk. 8.0—Music Lesson. 8.30—
Song Recital. 9.15—Quintet Concert.
10.0—Time, News and Close Down.

LWÓW (Poland)
788 kc/s (381 m.); 16 kW.
Transmits at intervals from 11.45 a.m.
6.50 p.m.—Miscellaneous Items. 7.15
—See Warsaw. 7.25—Literary Talk.
7.45—See Warsaw. 8.0—Talk on,
Music. 8.15—Concert by the Eryano
Choir. 8.45—See Warsaw. 10.45—

Talk on Politics in French. 11.0— Dance Music from the "Bagatela" Variety Theatre. 12 midnight (approx.) —Close Down.

LYONS (France)
La Doua (PTT). 644 kc/s (465.8 m.); 1.5 kW.
Transmits at intervals from 8.0 a.m.
7.0 p.m.—Popular Music on Gramophone Records. 7.30—Radio Gazette for Lyons and the South-East. 8.30—Sponsored Literary Programme.

MADRID (Spain)

MADRID (Spain)
Union Radio. (EAJ7). 707 kc/s (424.3 m.); 2 kW.
Transmits at intervals from 9.0 a.m.
8.0 p.m.—Chimes, Exchange, Market Prices, Horticultural Talk and Request Gramophone Concert. 0.15—0.30—Chimes, Time and Concert of Chamber Music relayed from the Aeolian Hall.
12.45 a.m. (Thursday)—News Bulletin. 1.0 (approx.)—Chimes and Close Down.

MILAN (Italy)
Ente Italiano Audizioni Radiofoniche. 905 kc/s (331.5 m.); 7 kW.
See Turin.

MORAVSKÁ-OSTRAVA

(Czechoslovakia)

1,137 kc/s (263.8 m.); 11 kW.

Transmits at intervals from 11.0 a.m.
7.0 p.m.—See Prague. 7.20—Orchestral Concert, conducted by Fr.
Sochor. 8.25—See Prague. 10.45
—Programme Announcements and Theatre Guide.

MOSCOW (Russia)

Trades Union. 230.1 kc/s (1,304 m.); roo kW.
Transmits at intervals from 5.0 a.m. 6.30 p.m.—Proletariat Radio Journal. 7.15—Programme for Komsomols. 8.0—Talk in (a) Czech and (b) Swedish: The First of May in the U.S.S.R. 9.55—Time Signal. 10.0—Review of the Week and Answers to Correspondents in French. 11.0 (approx.)—Close Down. to Correspondents in F (approx.)—Close Down.

MUNICH (Germany)

563 kc/s (533 m.); 1.5 kW. Relayed by Augsburg and Kaisers by Mme Elisabeth Munthe Kaas

lautern, 536 kc/s (560 m.) and Nürnberg, 1,256 kc/s (230 m.).

Transmits at intervals from 6.45 a.m. 5.0 p.m.—Orchestral Concert. 6.15—Time, Weather and Agricultural Notes. 6.25—Talk: Will Wooden Houses come into Fashion? 6.45—English Lesson. 7.5—Friedrich Brodersen and Josef Kainz—Gramophone Records. 7.35—Talk: Sailplaning. 8.0—See Stuttgart. 0.15—"Heroes of Modern Times"—Four Ballads by Hanns O. Münsterer, set to Music by Werner Egk: (a) "The Arctic Explorer," (b) "The Technical Engineer," (c) "The Aviator" and (d) "The Doctor." Speaker: Hellmuth Renar. 9.25—Choral and Orchestral Con-

Speaker: Hellmuth Renar.

9.25—Choral and Orchestral Concert from the Music of Hans Sachsse. Conductor: The Composer. Soloists: Luise Pflüger (Soprano), Irma Drummer (Contralto) and Dr. Heinz Bischoft (Lute). Serenale for Three-Part Male Voice Choir, Soprano Soloist, Lute. and Wood-Wind Instruments. "Das Mitleid "—Cantata for Voice and Orchestra.

10.5—Time, Weather and News.

10.30—Concert by the Station Or-chestra, conducted by Karl List. Soloists: Margot Leander (Soprano) and Willy Stuhlfauth (Violin).

OSLO (Norway)

Kringkastingselskapet. 277 kc/s (1,083 m.); 60 kW. Relayed by Fredriksstad, 816 kc/s (367.6 m.); Hamar, 536 kc/s (580 m.); Notodden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (453.2 m.), and Rinkan, 671 kc/s (447.1 m.).

Transmits at intervals from 11.10 a.m.

ransmits at intervals from 11.10 a.m.
o. p.m.—Concert by the Orchestra
of the Cecil Restauram. Overture,
"Nebuchadnezzar" (Verd),
Waltz, Du und du (Johann Strauss),
Serenade (Guittard). Doll Dance
(Haines). Dance of the Dervishes
(Bendix).

(Bendix).
6.0—French Lesson. 6.30—Programme for Boys. 7.0—Announcements, Weather and News Bulletin. 7.30—Talk: Man, in Sickness and Health. 8.0—Time Signal. 8.1—Inge Krokann reads from his own Worke. Inge | Works

The

WEDNESDAY continued

(Soprano), and M. Waldemar Alme (Pianoforte). 9.10—Talk: Mahatma Gandhi. 9.30—Agricultural Report, Weather Forecast and News Bulletin. 10.0—Topical Talk: News Bulletin. 10.15—Concert by the Station Orchestra, conducted by Hugo Kramm and the Pauline Hall Quartet. Second Rhapsody (Liszt). Wedding and Lullaby from "Three Village Scenes" (Bartok). Three Children's Songs (Zoltan Kodaly). Romanian Dances (Bartok). 11.0—Dance Music on Gramophone Records. 12 midnight (approx.)—Close Down.

PALERMO (Italy)

PALERMO (Italy)

Ente Italiano Audizioni Radiofoniche. 554 kc/s (542 m.); 3 kW.
Transmits at intervals from 12.45 p.m.
5.30 p.m. —6.30—Dance Music and
Light Music relayed from the
Olympia Tea-Roon. 8.0—Agricultural Notes and Giornale Radio.
8.20—Light Music on Gramophone
Records. 8.30—Time Signal and
News Bulletin.
8.50—Concert of Light Music and
Selections from Operettas. Overture, "Princess Rosina" (Lincke).
Selection (Zerkovitz). Selection
from "The Blue Mazurka" (Lehár). Talk by Mario Taccari.
Song from "La Fornarina" (Lomlardo). Selection from "The
Dollar Princess" (Fall). Soprano
Solo from "La Vergine Rossa"
(Cuscinà). Humorous Duet from
"La Fornarina" (Lombardo). Duet
from "Frasquita" (Lehár). Selection from "Acqua cheta" (Pietri).
Literary Notes. Selection from
"Malbruk" (Leoncavallo). Selection from "I Granatieri" (Valenti).
Selection from "Fräulein Loreley"
(Lincke). 10.35—News Bulletin
and Close Down.

PARIS (France)

Eiffel Tower (FLE) 207.5 ck/s

(1.445.7 m.); 13 kW.

Time Signals (on 2,650 m.) at 10.26
a.m. and 11.26 p.m. (preliminary and 6-dot signals.)

Transmits at intervals from 1.0 p.m.

6.45 p.m.—Talk on the Theatre: Music and Words. 7.0—Le Journal Parlé. 7.45—Programme for Young People. 8.20—Weather Forecast. 8.30—Symphony Concert, conducted by Edouard Flament. Au village (Mouquet). Ballet Music from "Antar" (Dupont-Mouton). Violin Solo by M. Cantrelle: Tambourin chinois (Kreisler). 9.10—News and Announcements, 9.30—Concert (contd.). Selection from "Véronique" (Messager-Delsaux). Chants de Matelots (de Séverac-Chapelier). Juegos (Turina-Chapelier). Overture, "Le Baruffe Trasteverine" (Cordoni). Waltz, Tales from the Vienna Woods (Joh. Strauss-Winter). 10.0(approx.)

PARIS (France)

Poste Parisien. 914 kc/s (328.2 m.)

1.2 kW.
Transmits at intervals from 12 noon.
6.45 p.m.—News and Announcements.
7.0—Gramophone Records,
Talks and News.
7.30—"Le Gone
àla tête en bois "—Pley in Two Acts by
the "Amis de Guignol à Paris."
8.30—Gramophone Records, Talk

and News

And News.

8.45—Vocal and Orchestral Concert.
Overture, "La Fille de Madame
Angot" (Lecocy). Waltz, Arcen-ciel (Waldteufel). Selection
from "Tip-Toes" (Gershwin).
Selection from the Ballet "Coppélia" (Deibes). Valse and Danse
montaguarde from "La Glaneuse"
(Fourdrain). Selection from "The
Merry Widow" (Lehar). Petite
suite d'antan (Février). Ballet
Music from "La petite Bohème"
(Hirschmann). La Hussarde
(Ganne). March, Semper Fidelis
(Sousa). (Ganne). (Sousa).

PARIS (France)

Radio-Paris (CFR). 174 kc/s (1,725 m.); 75 kW. 45 a.m.—Physical Culture Lesson.

-Weather and Physical Culture

(continued).
7.45—Gramophone Recards. La Chansin du Lanternier (Halfiter). Le Pas des Fleurs from "Naïla" (Delibes). Le Pas des Echarpes (Chaminade). Rustle of Spring (Sinding).

R.c.—News, Weather and Press Review. 12 noon—Educational Talk.

12.30 p.m.—Symphony Concert on Gramophone Records. Concerto in A Minor, for Violin and Orchestra (Vivaldi). Caro mio ben (Giordano). Loreley (Liszt). Le Camp de Wallenstein (d'Indy). Selection from "Romeo and Juliet" (Gounod). Arlequin (Lalo). Prestorale d'été (Honegger). Habanera (Aubert). Bourrée fantasque (Chabrier). In the intervals at 1.0—Exchange, News and Weather and at 1.30 and 2.0—Exchange.

1.45—Exchange and Market Prices. 6.30—Market Prices, Weather, Agricultural Report and Racing Results. 7.0—Talk on German Literature: Heinrich Heine and Young Germany. 7.30—Medical Talk. 7.45—Commerical Prices and News. 8.0—Literary Readings from "Le roman de Tristan." 8.30—News and Weather. 8.40—Fashion Review by Mlle. José. 8.45—Concert. The Station Orchestra, conducted by Eugène Bigot. Soloists: Lina Falk (Songs) and Jean Doyen (Pianoforte). Overture, "Phèdre" (Massenet). Cantata No. 170 (Bach). Concerto for Pianoforte and Orchestra (Hummel). Scheherazade (Rimsky-Korsakov). In the interval at 9.15—Press Review and News.

POZNAŃ (Poland)

POZNAŃ (Poland)

896 kc/s (335 m.); 1.9 kW.

Transmits at intervals from 11.45 a.m.

7.15 p.m.—Light Music on Gramophone Records, 7.30—Talk on Philosophy, 7.45—See Warsaw. 8.0—See Lwów. 8.15—Programme of Students' Songs by the Surma Students' Songs by the Surma Students' Society. In the intervals, Theatre Guide. 10.0—10.35—See Warsaw. 10.35—Sports Notes and Police Report. 10.45—Dance Music from the "Esplanade" Café. 12 midnight (approx.)—Close Down.

PRAGUE (Czechoslovakia)

614 kcs (488.6 m.); 120 kW.
Transmits at intervals from 11.0 a.m.
4.10 p.m.—Orchestral Concert, conducted by Tvrdy, relayed from Moravská-Ostrava. 5.10—"The Princess Juliana and the Dragon Drobeck"—Puppet Show in Three Acts (Kadlec). 6.0—Gramophone Records.

Motor Car Direction Indicators



Send for Bargain List

LESLIE DIXON & Co. 218, Upper Thames Street, E.C.4

The PIONEER PORTABLE at a POPULAR PRICE



At HOSTE OF ON HOLLDAY, IN RAIN OF REVENUE OF THE VALVE OF THE WARD OF THE WAR

TWEIVE MONTHS' GUARANTEE SPECIAL CASH OFFER

£3 15 0

DIRECT FROM THE MAKERS Write, 'Phone or Cab.
The PIONEER RADIO MANUFACTURING

CO., LTD., 166, Shaftesbury Avenue, London, W.C.2. 'Phone: Temple Bar 3176.

e LATEST ORMO



PERMANENT in Geatures. It will easily the sensitivity many the sensitivity and correct tone balance are outstar features. It will handle head input without distress. The spec Magnets are of Durvin Cobalt Ste and a Specch Transformer is incorped at the compete chassis. Size: width 10 jins, height 11 jins, depay further 2/5 at once, and complete purchase by 9 millipayments of 7/6. (Oash Price, 65/-). Send to-day and try this wonderful speaker.



THE ORMOND FOUR POLE

THE ORMOND FOUR POLE
ADJUSTABLE L.S. UNIT
No. 1. Capable of handling great
volume without chatter. Easily
mounted in any cabinet or chassis
by 2 screws. On 7 dars' approval
for 1/- deposit; if satisfied, pay
further 3/- at onec. Complete purchase by
4 mtbly, payments of 2/6. (Cash, 12/6.)



E. J. HERAUD (Dept. W.R. 18), Number One, Edmonton, London, N.18.

Branches at Toltenham, Walthamstow and Enfield Wash, Estab'd 32 years.



YOU "CLIP" THE NAMES DIRECT ON TO THIS DIAL

58 NAME CLIPS WITH EVERY DIAL.

- Send 1d. stamp for our new station guide. Gives interval signal, call, etc., 58 stations.
- Tells you all about this wonderful new dial.
- Enclose an envelope clearly addressed to yourself and stamped with 1d. stamp.
- R. CUSTERSON, OLD FACTORY, REDDITCH.

STATION

RAZOR BLADE SHARPENER

The ANCAR

Guaranteed to Sharren. Nothing to get out or order. WILL LAST A LIFETIME Don't throw your razor blades away after a few shaves . get months of satisfactory service out of every one by sharp ening with a Lansard Sharpener. 0

THE ALEXANDER LANSARD CO., 216, Goswell Road, London, E.C.1

1'2 POST

Photo

Cells

15/- British Talking Picture Co. Spherical. Unmounted.

15/- UX 867 unmounted. Caesium 5" long. Ditto mounted as illustrated - 25/-

The usual price of these cinema photo cells is £4/10 to £7/10 and they are perfect in their sound to light response. These spares are available because a well-known firm of producers is adopting a smaller mechanism. Great Bargain. Few only.

ELECTRADIX RADIOS 218, UPPER THAMES ST., E.C.4

are YOU missing these opportunities



When D.A.W. enrolled with us on the 19th January, 1932, he was employed as a clerk. We found him a position six days after he had completed his training, and to-day he is earning over £10 a week, G.A.D. was a wireless operator. He is now Sales Manager at £600 a year, S.G.W. was a Mining Engineer. To-day his average earnings amount to £11 a week. G.K. was a sakeman at £5 a week. Our training has enabled him to increase his theome to ever £900 per annum. W.P.T., a bus driver, completed training 27th November, 1931. Flaced as salesman within three days—promoted London Manager 23rd March, 1932. All men who are accepted for training by the B.S.S. are introduced to vacant salaried positions upon completing their studies. If you are on the look-out for a better job, come and see us.—If inconvenient to call, write or 'phone for our brochure,' British Salesmanship."

THE BRITISH SCHOOL OF SELLING (SALESMANSHIP LTD.), Dept. W, 7, Southampton Street, High Holborn, W.C.1.

6.5—Agricultural Report. 6.5—Agricultural Report. 6.15—Talk for Workers. 6.25—German Transmission: News and Talk for Workers. 7.0—News Bulletin. 7.5—Theatre Review. 7.20—Song Recital by Dr. Peterka. 7.45—Concert of Light Music. 8.25—My Wife—Play—(Grubinsky). 9.0—Time and News. 9.15—Pianoforte Recital by Juliette Aranyi. Seventeen Variations (Mendelssohn). Impromptu in A Flat Major (Schubert). Général Lavine excentrique (Debussy). Jardins sous la Pluie (Debussy). Jardins sous la Pluie (Debussy). O.30—Quartet in B Major, Op. 76, No. 4 (Haydn), by the Ondricek Quartet. 10.0—Time and News. 10.15—Gymnastics for Sokols. 10.45—Announcements.

RADIO-SUISSE ROMANDE

RADIO-SUISSE ROMANDE(SOTTENS) (Switzerland)
743 kc/s (403 m.); 25 kW.;
Lansaune, 442 kc/s (680 m.);
and Geneva, 395 kc/s (760 m.).
Transmits at intervals from 12.30 p.m.
4.32 p.m.—Concert by the Station
Orchestra. 5.30 (from Geneva)—Programme for Children. 6.30 (from
Geneva)—Light Music on Gramophone Records. 7.0—Weather Forecast. 7.1 (from Lausaune)—Cinema
Organ Recital, relayed from the
Capitole Theatre. 7.30 (from
Lausaune)—Talk: What to do with
Skimmed Milk. 7.55—Announcements. 8.0 (from Geneva)—Talk;
The Work of the Disarmament Conference.

Ane work of the ference.

8.10 (from Geneva)—Pianoforte Recital. 8.30 (from Lausanne)—Concert by Mixed Choir. 8.50—Concert by the Station Orchestra, conducted by Fernand Closset. 10.0—Weather and News Bulletin. 10.10 (from by Fernand Closer. 10.0—Weather and News Bulletin. 10.10 (from Geneva)—Answers to Correspondents. 10.30 (from Geneva)—Dance Music relayed from the Moulin-Rouge. 11.0 (approx.)—Close Down.

RIGA (Latvia)

S72 kc/s (525 m.); 15 kW.
Transmits at intervals from 7.0 a.m.
5.0 p.m.—English Lesson. 6.30—
Agricultural Talk. 7.0—Weather
Report. 7.5—"Frasquita"—Operetta
in Three Acts (Lchar), with Amanda
Liberts Lebane in the Principal
Rôle. In the intervals, News and at
9.0—Weather Report. 9.30—Concert
—Impressionism in Music. 10.30
approx.)—Close Down.

ROME (Italy)

Ente Italiano Audizioni Radio-foniche (1RO). 680 kc/s (441 m.); 50 kW. Relayed by Naples, 041 kc/s (319 m.), and 2RO, 11,810 kc/s (25.4 m.). Transmits at intervals from 8.15 a.m. 12 non—Gramophone Records of Variety Music. 12.35 p.m.—Weather

Porecast.

12.45—2.0—Vocal and Instrumental
Concert. The Station Sextet and 2.45—2.6—vocal and instrumental Concert. The Station Sextet and Maria Senes (Soprano). Suite from "Cendrillon" (Massenet). Soprano Solos: (a) Ballata medioevale (de Lucia), (b) Madonna Renzuola (Donaudy). Hungarian Dance No 13 (Brahms). Selection from "Countess Maritza" (Kålmán). Soprano Solos: (a) Rondine al nido (De Crescenzo), (b) Second Mattinata (Tosti). Cradle Song (Grieg). Habanera, Triana (Pizzini). In the intervals—Giornale Radio, Exchange, Time and Announcements.

(Grieg). Habanera, Triana (Pizzini). In the intervals—Giornale Radio, Exchange, Time and Announcements.

5.0—Exchange, Report of the Royal Geographical Society, Programme for Children, Giornale Radio and Announcements.

5.30—Song Recital by Armando Zuccarelli (Baritone). The Two Grenadiers (Schumann). Serenata (Savasata). Two Spanish Songs, (Bilbao): (a) Molino de viento/ (b) Cancion de Pierrot.

5.45—Variety Concert. Selection from "The Czardas Princess" (Kälmán). Song, Se tu mi baci (Mascheroni). Liebeswalzer (Stolz). Il mio ideale (Di Lazzaro). Intermezzo, Chitarrata esotica (Mariotti). Foxtrot (Fall).

6.15—Giornale dell' Enit. 6.20—Talk: Artichokes and Asparagus.
6.55 (from Naples)—Shipping and Sports Notes. 7.0—Agricultural Notes, Weather, Announcements, Giornale Radio and Press Review.

8.0—Time and Announcements.

8.15—Medical Talk. 8.30—Sports Notes and Announcements.

8.45—Variety Concert. Concertino in D Minor (Pergolesi). Baritone Solos: (a) Aria from "L'aio nell' imbarazzo" (Donizetti), (b) Il pastorello della montagna (de Angelis), (c) Two Sonnets by Burchiello (Malipiero). Quartet Selections: (a) Canzonetta from the Quartet, Op. 12 (Mendelssohn),

(b) Tempo di Bolero (Lassen). Talk on Literature and Art. Wedding March from "Lohengrin" (Wagner). Concerto in A Minor, Op. 54, for Pianoforte and Orchestra (Schumann). "Come se fosse"—Comedy in One Act (Donaudy). Gramophone Records of Variety Music. 10.55—News Bullerin

SCHENECTADY (U.S.A.)

SCHENECTADY (U.S.A.)

General Electric Company (WGY).

790 ke/s (379.5 m.); 50 kW. Relayed at intervals by W2XAF on 9,530 ke/s (1,148 m.) and by W2XAD on 15,340 ke/s (19.56 m.).

Transmits at intervals from 11.45 a.m.

8.30—9.45 p.m.—New York Relay.

8.30—Woman's Radio Review. 9.0—The Pilgrims. 9.0—The Wrigley Programme. 9.45—Musical Ad Men.

9.55—News Items. 10.0—Stock Reports and Police Notices. 10.15—Skippy from New York.

10.45—Soloist from New York.

11.0—When Day is Done. 11.25—Health Talk. 11.30—Weather Report. 11.31—New Kenmore Orchestra 11.45—The Banjoleers.

12 midnight (WGY only)—New York State Education Series. 12 midnight (W2XAF only)—Stock Reports and News Items. 12.15 a.m. (Thursday)—New Kenmore Orchestra. 12.30—4.15—New York Relay. 12.30—Prince Albert Quarter Hour. 12.45—Trials of the Goldbergs. 1.0—Big Time. 1.30—Halsey Stuart Programme. 2.0—Goodyear Programme. 2.30—NBC Artists Service Musicale. gramme. 2.30—Mobifoil Concert. 3.0—Cola Programme. 3.30—NBC Artists Service Musicale. 4.0—Voice of the Radio Digest. 4.15—Songs my Mother taught me. 4.30—DeWitt Glinton Orchestra. 5.0—Ralph Kirbery, The Dream Singer from New York. 5.5—Buddy Rogers and his Californian Cavaliers from New York. 5.30—New Kenmore Orchestra. 6.0 (approx.)—Close

SCHWEIZERISCHER LANDESSENDER (BERO-MUNSTER) (Switzerland)

MÜNSTER) (Switzerland)
653 kc/s (459 m.); 60 kW.; Basle,
1,220 kc/s (244 m.); and Berne,
1,220 kc/s (244 m.); and Berne,
1,220 kc/s (246 m.).
12.28 p.m.—Time Signal from the
Neuchâtel Observatory. 12.30—
Weather Forecast and News Bulletin.
12.40—Suite, The Wand of Youth
(Elgar) and other English Compositions on Gramophone Records.
1,35—Weather Forecast and 'Exchange Quotations. 1.45—3.30—
Interval.
3,30—Concert by the Station Orchestra. 4.0—Concert of Popular
Music on Gramophone Records.
5,0 (from Berne)—Programme for
Children. 5,30—Weather Forecast
and Market Prices. 5.45—6.30—Interval. 6,30—Popular Songs on
Gramophone Records.
7,0 (from
Berne)—"Laughter"—a Study by
Alfred Auerbach, with Gramophone
Records. 7,28—Time Signal and
Weather Forecast. 7,30 (frem Zürich)
—Talk: Swiss Motoring Roads.
8,0 (from Zurich)—Concert by a
Zither Tric. 8,30—Otto Rombach

—Talk: Swiss Motoring Roads.

8.0 (from Zurich)—Concert by a
Zither Trio. 8.30—Otto Rombach
reads from his own Works. 9.0—
Concert by the Station Orchestra,
conducted by M. Hofmann. Soloist:
Nina Nüesch (Contralto). 10.0—
Weather Forecast and News Bulletin.
10.15 (from Berne)—Wireless Notes.
10.30 (approx.)—Close Down.

STOCKHOLM (Sweden)

Radiotjänst (SASA). 689 kc/s (436 m.); 55 kW. Relayed by Boden, 244 kc/s (1,229.5 m.); Göteborg, 932 kc/s (322 m.); Hörby, 1,166 kc/s (257 m.); Motala, 222.5 kc/s (1,348 m.); Ostersund, 380 kc/s (770 m.), and Sundsvall, 554 kc/s (542 m.) ransmits at intervals from 7.20 a.m. (Gymnastics and Service).

Transmits at intervals from 7.20 a.m. (Gymnastics and Service).

5.0 p.m.—Provincial Programme from Göteborg.

5.30—The Children's Letter-Box.

5.45—Gramophone Records of Variety Music.

6.45—Agricultural Talk.

7.15—Weather and News.

7.30—Cabaret Programme.

8.0—Talk: The Marine Museum at Stockholm.

8.30—Military Band Concert, relayed from Göteborg. March, Overste Hamilton (Lövgren). Overture, "La Fille de Madame Angot" (Lecocq). Waltz, La gran Via (Lincke). Selection from "Der Bertelstudent" (Millöcker). Elegy (Sibelius). La Bailarina (Colin).

March (Eisengräber).

9.25—Report from the Disarmament Conference at Geneva.

9.45—Weather and News. 10.0—Dance Music from Göteborg. 11.0 (approx.)

—Close Down.

WEDNESDAY continued

STRASBOURG (France)
Radio-Strasbourg. (PTT). 869 kc/s
(345 m.); 11.5 kW.
11.30 a.m.—Gramophone Concert of .30 a.m.—Gramophone Concert of triety Music. 12.45 p.m.—News French and German. 1.0—Time

Variety Music. 12.45 p.m.—News in French and German. 1.0—Time Signal.

1.2—Gramsphone Convert. Selections (Chopin): (a) Etude, Op. 25, No. 2, (b) Etudes Nos. 1 and 3, Selections from "Peer Gypt" (Grieg). Selection from "Les Noces de Jeannette" (Massé). Selection from "Lisa Time" (Schubert). Waltz Potpourri No. 2 (Robrecht). Selections (Sibelius): (a) Chanson du printemps, (b) Valse triste. Pourquoi as-tu pleuré (Rosen-Lion). Dans un petit pavillon (Klupsch). In the interval at 1.15—Tourist Report from Cabrunas and La Malène.

2.0—4.45—Interval. 4.45—Talk in French: Electricity in the House.

5.0—Orchestral Concert. Spanish Mārch: Reboleras (Ladivia). Waltz, Hamburgerkinder (Petras). L'Etoile du berger (Mevensen). Overture (Suppé). 'Cello Solo: Gavotte No. 2 (Popper). Offenbach Potpourri (Urbach). Waltz, Manola (Waldteufel). Potpourri, Songs of Holland (Sluijter-Hoogenboom). In the interval at 5.30—Tourist Report from Aven-Armand.

6.0—Talk in French. 6.15—Medical Talk.

6.o—' Talk.

Report from Aven-Armand.
6.0—Talk in French. 6.15—Medical Talk.
6.30—Orchestral Concert. Overture, "Maritana" (Wallace). Dance Suite, Aus galanter Zeit (Klaas). Selection from "Etienne Marcel" (Saint-Saëns). Scènes Alsaciennes (Massenet).
7.30—Time Signal. 7.32—News in French and German.
7.45—Orchestral Concert. March, Les evifants de France (Lempers). Waltz, Tout Paris (Waldteufel). Overture, "Tutti in maschera" (Pedrotti). Pianoforte Solo: L'amoureuse Séréadde (Flipucci). Selection from "The Count of L'axembourg" (Lehar). March, Folies Bergère (Lincke).
8.30—Tourist Report from Le Rozier.
8.45—Concert by Pupils of the Metz. Conservatoire, relayed from Metz. Duet for Clarinet and Pianoforte (Webor). Cornet Solo: Pièce de concours (Vidal). Selection from the Concerto in C Minor (Beethoven). Song from "The Marriage of Figaro" (Mozart). Selection from the First Concerto for Violin (Vieuxtemps). Song from "The Marriage of Figaro" (Mozart). Selection from the First Concerto for Violin (Vieuxtemps). Sanphone Solo (Combelle). Song from "The Creation" (Haydn). Talk. Largo and Allegro from the Sonata No. 1 for Oboe (Händel). Symphonic Etudes (Schumann). Introduction and Rondo for Bassoon (Berthelin). Sicilienne and Burlesque for Flute (Casella). Song from "Alcestis" (Gluck). Rondo capriccioso for Violin (Saint-Saëns). 10.30—Dance Music from the Savoy. 12 nidnight (approx.)—Close Down. STUTTGART (Germany)

STUTTGART (MÜHL-

10.30—Jance Music from the Savoy. 2 midnight (approx.)—Close Down.

STUTTGART (MÜHL-ACKER) (Germany)
Süddeutscher Rundfunk. 832 kc/s (360.5 m.); 60 kW. Relayed by Freiburg, 527 kc/s (570 m.).
Transmits at intervals from 6.0 a.m. (Time, Weather and Gymnastics). 10.0 a.m.—Symphony No. 7 in E Major (Bruckner), on Gramophone Records, by the Berlin Philbarmonic Orchestra, conducted by Horenstein. 11.0—News, Time and Weather. 11.15—11.30—Sponsored Gramophone Records.
12 noon (from Nürnberg.)—Concert by the Frankish Chamber Orchestra, conducted by Markus Rümmelein. Overture, "Si j'étais roi" (Adam). Melody (Rubinstein). Waltz, Golden Rain (Waldteufel). Selection from "The Tales of Hoffmann" (Offenbach). March, Artists' Life (Schmeling).
12.50 p.m.—Time, News and Announcements.
1.0—Gramophone Concert. Overture, "Semiramis" (Rossini). Song from "La Bohème" (Puccini). Second Hungarian Rhapsody (Liszt). La Danza. (Rossini). Tarantella sincera (de Crescenzo). Two Strauss Waltzes: (a) Wiener Frauen, (b) Wine, Woman and Song. Three Tangos: (a) Die alte Spieluhr, (b) Liebe war es nie, (c) Lola, dein spanisches Feuer. March, Alte Kameraden (Teike).
1.55—News Bulletin. 2.0—Sponsored Gramophone Records. 2.15—Sponsored Programme. 3.30.—Programme for Children. 4.30—Talk: A Lovely Garden at little Expense. 5.0—See Frankfurt. 6.15—Time and Agricultural Notes. 6.25 (from

Freiburg).—Talk by Professor Kapp.
6.50—Talk: Book-keeping and
Small Industries. 7.15—Time
and Weather. 7.30—8.0—See
Freiburg.

and Weather. 7.30—8.0—See Frankfurt.

8.0 (from Baden-Baden)—Concert by the Municipal Orchestrat Overture," The Thieving Magpie "(Rossini). Invitation to the Dance (Weber-Weingartner). Two Irish Folk Dances (Grainger): (a) Shepherds Hey, (b) Mock Morris. Bauern-Polka (Strauss). Overture, "Die schöne Galathée" (Suppé). The Blue Danube (Strauss). Perpetuum mobile (Strauss). Radetzky March (Strauss).

9.0—See Frankfurt. 9.30—An Erie Programme. 10.15—News, Time and Announcements.

10.30 (from Mannheim)—Pianoforte Recital by Otto Voss. Nocturne in C Minor (Chopin). Soirée de Vienne, No. 6 (Schubert). Au bord d'une source (Liszt.) La Campanella (Paganini-Liszt).

11.15—Concert from Munich. 12 midnight (approx.)—Close Down.

TOULOUSE (France)

TOULOUSE (France)
Radiophonie du Midi. 779 kc/s (385 m.); 8 kW.
Transmits at intervals from12.45 p.m. 5.0 p.m.—Transmission of Pictures 5.15—Orchestral Selections from "The Marriage of Figaro" (Mozart) and "The Damnation of Faust" (Berlioz).
5.30—News Bulletin. 5.45—Dance Music.
6.0—Songs from "The Bartered Bride" (Smetan.), "La Dame Blanche" (Roieldieu), and "Don Giovanni" (Mozart).
6.15—Orchestral Selections. 6.30—News Bulletin. 6.45—Orchestral Selections. 7.0 (in the interval)—Talk. 7.15—Light Music. 7.30—News and Horse Rating Results.
7.45—Orchestral Selections. Overture, "Veronique" (Messager). Waltz from "The Merry Widow" (Lehar). Weltz from "Gipsy Love" (Lehar). Selection from "Die geschiedene Frau" (Fall). 8.0—Songs from "Mirella" (Gound), "La Bohême" (Puccini) and "Louise" (Charpentier). 8.15—Military Music. 8.30—Songs from "Robert the Pirate" (Romberg). 8.45—Orchestral Selections.
9.0—Concert. 10.39—News Bulletin. 10.45—Saxophone Solos. La précieuse (Kreisler). Schön Rosmarin (Kreisler). Plaisir d'amour (Martin). Liebesleid (Kreisler).
11.0—Concert. Méditation from "Thias" (Massenet). The Marseillaise (Rouget de l'Isle). My Friend Elizabeth, from "Wonder Bar" (Katscher). Reine de musetté (Vacher). North African News. March of the Grenadiers (Schertzinger). Le Cygne (Saint-Saëns). Valse du coucou (Jonasson). The Miller's Daughter (Cayla). Ca gaze (Marceau). Knowest thou the land, from "Mignon" (Thomas). Indian Love Call from "Rose Marie" (Friml). Selection. 12 midnight—Weather, Announcéments and Close Down.

VIENNA (Austria)

ALINNA (AUSTIA)
Radio-Wien. 581 kc/s (517 m.);
15 kW. Relayed by Graz, 852 kc/s
(352.1 m.); Innsbruck, 1,058 kc/s
(283 m.); Klagenfurt, 662 kc/s
(453.2 m.); Linz, 1,220 kc/s
(246 m.); and Salzburg, 1,373 kc/s
(348 m.)

(246 m.); and Satzong, 1,373 ke/s (218 m.).

Transmits at intervals from 9.20 a.m. 6.15 p.m.—Health Talk. 6.35—Talk arranged by the Chamber of Commerce. 6.55—Talk in connexion with "Mothers' Day" on May 8. 7.10—French Lesson. 7.35—Time Signal, Weather Report and Programme Announcements. 7.45—Dance Music by the David Mathé Orchestra, with Vocal Refrains by Wolfgang Ernst and Robert Edlinger. 8.45—Reading by Karl Kneidinger.

Mathé Orchestra, with Vocal Refrains by Wolfgang Ernst and Robert Edlinger. 8.45-Reading by Karl Kneidinger. 9.10—"Frihere Verhaltnisse"—One-Act Farce with Music (Nestroy). 10.0—News, Weather Report and Announcements.

10.15—Concert by the Emil Bauer Orchestra. Overture, "Mignon" (Thomas). Waltz, Fin de Siècle (Waldteufel). Selection from "Der Golem" (d'Albert). Scherzo, Op. 2, No. 3 (Richard Strauss). Minuet and Cradle Song (Bauer). Idyll, Neckereien (Weinberger). Potpourri of Russian Songs and Dances (Leuschner). Waltz from "Das Veilchenmädel" (Hellmesberger). March (Kreuzberger).

WARSAW (Poland)

WARSAW (Poland)
Polskie Radio. 212.5 kc/s (1,411 m.); 120 kW.

11.20 kW.
11.20 kW.
11.20 kW.
11.25—Interval. 11.45—Press Review. 11.58—Time Signal and Bugle Call from the Tower of St. Mary's Church, Cracow.
12.5—Interval. 12.10—Variety Music on Gramophone Records. 1.20—Weather Report. 1.25—Interval. 1.35—Light Music on Gramophone Records. 1.55—2.45—Interval. 1.35—Light Music on Gramophone Records. 1.55—2.45—Interval. 1.35—Light Music on Gramophone Records. 2.5—Economic Report and Exchange Quotations. 3.13—Iby Scouts' Report. 3.20—Co-Operative Report. 3.25—Talk on History. 3.45—Hydrographic Report. 3.50—Talk on Contemporary Poland. 4.10—Interval. 4.15—Sports Notes. 4.20—Talk relayed from Cracore, 959 kc/s (312.8 m.).
4.40—Light Music on Gramophone Records. 4.55—Linguiphone English Lesson. 5.10—Talk: Fashions in Medicine, relayed from Lwów. 5.35—Light Music by the Station Orchestra, conducted by Josef Oziminsky. Hungarian March (Lehar). Selection from "Paganini" (Lehar). Waltz from "Der Mann mit den drei Frauen" (Lehar). Selection from "The Circus Princess" (Kalman). Foxtrot from "Our Countess Maritza." Selection from "The Circus Princess" (Kalman). Foxtrot from "Countess Maritza." Selection from "The Circus Princess" (Kalman). Foxtrot from "Countess Maritza." Selection from "The Circus Princess" (Kalman). Foxtrot from "Countess Maritza." Selection from "The Circus Princess" (Kalman). Foxtrot from "Countess Maritza." Selection from "The Circus Princess" (Kalman). Foxtrot from "Countess Maritza." Selection from "The Circus Princess" (Kalman). Foxtrot from "Countess Maritza." Selection from "Apricultural Talk not provided the Princes "Kalman). Foxtrot from "Countess Maritza." Selection from "Apricultural Talk not provided the Princes "Kalman).

tess Maritza. Selection from "The Czardas Princess" (Kalmańn).

6.50—Miscellaneous Items. 7.15—Agricultural Talk. 7.25—Programme Announcements. 7.30—Sports Notes. 7.35—Light Music on Gramophone Records. 7.45—Radio Journal. 8.0
—See Lwöw. 8.45—Reading of a Short Story.

9.0—Pianoforte Recital by J. Turczynsky. Toccata in D Minor (Bach-Busoni). Two Sonatas (Scarlatti). Sonata in C Sharp Minor, Op. 27 (Beethoven). Intermezzol and Waltz Caprice (Paderevsky). Berceuse, Gavotte and Impromptu (Zarebsky). Hungarian Rhāpsody, No. 12 (Liszt).

10.0—Song Recital by Umberto Macnez, with Pianoforte accompaniment by Louis Urstein. Prederick's Lament from "L'Arlésiana" (Cilea). Your tiny Hand is frozen from "La Bohême" (Puccini). Ballad from "Rigoletto" (Verdi). Two Songs (de Curtis). O Primavera (Tirindelli) Te quiero (Serrano).

10.30—Radio Journal. 10.35—Weather and Police Notes. 10.40—Interval. 10.45—Talk in French: Contemporary Political Movements in Poland. 11.0—Dance Music. 12 midnight (approx.)—Clese Down.

WILNO (Poland)

WILNO (Poland)
533 kc/s (563 m.); 16 kW.
Transn.its at intervals from 11.58 a.m.
7.0 p.m.—Lithuanian Review. 7.15
—Light Music on Gramophone
Records. 7.20—Topical Talk. 7.30
—See Warsaw. 7.35—Programme
Announcements and Miscellaneus
Items. 7.45—See Warsaw.
9.0—Literary and Musical Programme
dedicated to Goethe and Maria
Szymanovska. 10.39—See Warsaw.
10.45—Spanish Music on Gramophone Records. 11.0—See Warsaw.
12 midnight (approx.)—Close Dawn.

PRINCIPAL EVENTS

SERVICES AND SACRED MUSIC

9.55 a.m. Hamburg: Ascension Day Service from Schwerin

11.30 ,, Leipzig and all German Stations: Church Cantata (Bach).

SYMPHONY CONCERTS

8.20 p.m. Heilsberg: "The Seasons" (Haydn). Bucharest: "The Bartered Bride" (Smetana).

9.10 Munich: Orchestral Programme. 9.10 ,, Oslo: Pastoral Symphony (Beethoven).

CONCERTS (Vocal and Instrumental)

Berlin Witzleben: Orchestral pro-8.0 p.m. gramme. Hamburg: Vocal and Orchestral. 8.0

Leipzig: Orchestral concert. Warsaw: Spring-time Music. Hilversum: Wagner programme. 8.0 8.15 8.55 Copenhagen: Classical programme 9.0 (Emil Telmanyi, violin).

10.10 ,, Copenhagen: Opéra Comique programme.

OPERAS AND OPERETTAS
7.35 p.m. Vienna: "Tosca" (Puccini) (gramophone records).

L'angenberg, Königs-Wusterhausen:
"l'Seraglio" (Mozart).
Budapest: "Rigoletto" (Verdi).
Palermo: "La cena delle beffe" 8.0 8.30

8.50 beffe " (Giordano).

Italian stations (Northern): I puritani 9.0 (Bellini).

RECITALS

7.40 p.m. Hilversum: Violin. 10.10 " Warsaw : Violin.

PLAY

Breslau: "The German Provincials" 9.0 p.m. (Kotzebue).

DANCE MUSIC

10.30 p.m. Hamburg.

Copenhagen (till 12.30).

The Residentie Orchestra

Though the Concertgebouw Orchestra of Amsterdam is better known abroad, the people of The Hague will not admit that it is in any way superior to their own Residentie Orchestra; certainly the latter is not lacking in fine players, like the principals, Sam Swaap, Devert, Ch. van Isterdael, Jaap Stotyn and others. In the summer the Residentie Orchestra

THURSDAY (May 5)



[Nini & Carry Hess, Frankfurt.

Hans Rosbaud, Music Director at Frankfurt Station

plays regularly three or four times a week at the seaside suburb of Scheveningen under Carl Schuricht and other well-

known conductors, and in the winter in the great concert hall at The Hague under Peter van Anrooy. The Orchestra is engaged at HILVERSUM for a Wagner Festival to-night, when it will be conducted by Albert van Raalte; for the last six years he has been conductor of the Scottish Orchestra at Glasgow, an engagement he has renewed for 1932-1933, and musical adviser of the A.V.R.O. One of his predecessors at Glasgow was his distinguished fellow-countryman Willem Kes.

Bellini's Puritans

In the heyday of Italian opera, a hundred years ago, Bellini's name was a household word. Born in Sicily in 1801, he died at the early age of thirty-four, while on a visit to an English friend who lived near while on a visit to an English friend who fived near Paris. But in that short span of years he produced several operas which are masterpieces in their own class, full of the simple lyric beauty which was the ideal of that age. The Puritans, to a feeble libretto based on one of Scott's Waverley novels, was his last opera, produced shortly before his death: in Paris the season of Italian opera opened with it that autumn—1835—on the very eve of his funeral, and within a few hours after the first performance, the artists who had formed the cast were singing its melodies again to the words of the burial service. How high his position in the world of music was, may be gauged by the devotion with which Rossini, Cherubini, Habeneck and other great men of the day, joined in that service: Bellini was liked for himself, too, by all who came in touch with him. The tenor part of Arthur, and the prima donna's rôle of Elvira, were favourites with all the leading singers a century ago, and "the Puritani season," as 1835 was called, when Grisi sang Elvira, was one of the most brilliant in London's operatic history. The story. unlike most opera plots, ends in happiness, though all the people concerned have to come through many trials and dangers. Thrice—once in each of the three acts—Elvira has a scene in which grief and terror send her mad, though not, of course, too mad to sing brilliantly. The Northern Italian Stations broadcast the opera on Sunday and to-day.

NATIONAL

kW. kc/s. m. 1,148 261.3 50 London: Daventry: 193 1,554.4 30 Northern: 995 301.5 50

10.15 a.m.—The Daily Service.
10.30—Time Signal (Greenwich);
Shipping Forecast.
10.45—11.0—"Healthy Children."

Shipping Forecast.

10.45—11.0—"Healthy Children."
Dr. Cyril Burt.

12 noon—The Scottish Studio Orchestra. Directed by Guy Daines.

1.0 p.m.—Time Signal (Greenwich).

1.0—2.0—The Shepherd's Bush Orchestra. Directed by Harry Fryer.

2.5—"Tracing History Backwards"
—Term III.

2.30—Speech Training. Mr. A.
Lloyd-James: "King's English"
—III.

3.0—3.45—Evensong. From West-

-1II.
3.0-3.45-Evensong. From Westminster Abbey.
4.0-The B.B.C. Dance Orchestra.
Directed by Henry Hall.
4.30-The Midland Studio Orchestra. Directed by Frank Cantell. .45—Time Signal (Greenwich). 15 (Daventry)—The Children's

Hour.
5.15 (London and Northern)—The
B.C.C. Dance Orchestra.
6.0—"The First News."
6.30—Time Signal (Greenwich).
6.30—The Foundations of Music.
Schumann Quartets.
6.50—German Talk. Mr. Otto

Siepmann.
Siepmann.
7.20—The Weekly Bulletin of Special 7.20—The Weekly Bull.
Notices.
7.30—"The Growth of the Modern
7.30—"The Weekly Bull.
7.30—"The Growth of the Modern
8.30—"The Growth of the Modern
8.30—"The Growth of the Modern
9.30—"The Growth of the Modern
9.30—"The

Notices.

7.30—"The Growth of the Modern World Order"—IV.

8.0—Military Band Transcriptions. By R. J. F. Howgill. The Wireless Military Band. William Dennis (Baritone).

9.0—Time Signal (Greenwich).

9.0—"The Second News."

9.15—Shipping Forecast; New York Stock Market Report.

9.20—"The Way of the World."

Mr. Vernon Bartlett.

9.35—"Miscellany." Being a collection of Plays, Songs, and Poems chosen and adapted for broadcasting by C. Denis Freeman and M. H. Allen.

10.30—A Short Service. Relayed

M. H. Allen.

10.30—A Short Service. Relayed from St. Michael's, Chester Square.

10.45—12 midnight—Dance Music. (Continued at foot of column 2.) Relayed

REGIONAL

kW. kc/s m. 842 London: 356.3 50 Midland: 752 398.9 25 Northern: 626 479.2 50

Midland: 752 398.9 25
Northern: 626 479.2 50

10.15 a.m. (London and Northern)—
The Daily Service.
10.30-11.0 (London and Northern)—
Daventry National Programme.
11.30—12 noon (London)—Experimental Television Transmission (Baird Process).
12 noon—Edward O'Henry. At The Organ.
1.0 p.m.—The Northern Studio Orchestra. Betty McIntyre (Contratio) (From Leeds).
2.0—3.0—Laddie Clarke's Imperial Hydro Hotel Orchestra.
4.0 (London and Northern)—The B.B.C. Dance Orchestra.
4.30 (London and Northern)—The Midland Studio Orchestra.
5.15—The Children's Hour.
6.0—"The First News."
6.30—Regional Bulletin for Farmers.
6.35 (Northern and London)—The Northern Studio Orchestra. Helen Jackson (Viola). Stanley Webb (Tenor).
6.35 (Midland)—A Request Programme. The Midland Studio Orchestra. Chatterly Ingram (Contralto). Mary Abbott (Pianoforte).
7.30 (London)—Music for Two Violins. Winifred Small. Jean Pougnet.
8.45—National Safety First Congress. Address by The Home Secretary, the Right Hon. Sir Herbert Samuel.
9.0 (London and Midland)—An Orchestral Concert. The B.B.C. Orchestra. (Section E.) Conducted by Joseph Lewis.
9.0 (Northern)—An Organ Recital. By Dennis Chapman. The Pilsley Lyric Male Voice Quartet.
9.55 (Northern)—Mr. W. E. Shewell Cooper: "The Northern Garden."
10.15—Second General News Bulletin.
10.35—11.0 (Midland)—As London.
10.35—11.0 (Midland)—As London.

10.15—Second General News Bulletin.
10.35—11.0 (Midland)—As London.
10.35—12 midnight (London and Northern)—Dance Music.

11.30—Time Signal (Greenwich).
12 midnight—12.5 a.m.—Experimental
Transmission (Fultograph Process).

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO BRITISH SUMMER TIME

ALGIERS (N. Africa)

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW.
Transmits at intervals from 12.30 p.m.
7.0 p.m.—Transmission of Pictures.
7.15—Financial Notes and Market
Prices and Exchange Quotations.
7.25—Shipping Notes and Weather
Forecast. 7.30—Talk by Professor
Cosinus. 7.40—Light Music. 7.55
—News and Time Signal.
8.0—"Manon"—Opéra-Comique in
Five Acts (Massenet).

Five Acts (Massenet).

BARCELONA (Spain)
Radio-Barcelona (EAJ1). 860 kc/s
(349 m.); 8 kW.
Transmits at intervals from 8.30 a.m.
8.0 p.m.—Concert by the Station Trio.
Arioso (Delibes). Selection from
"Cavalleria rusticana" (Mascagni).
Melody for 'Cello (J. de Smetsky).
Minuet (P. Steck).
8.30—Exchange Quotations and Advanced English Lesson. 9.0—Request
Gramophone Records and Press
Review. 10.0—Chimes, Weather,
Market Prices and Exchange Quotations.

Market Prices and Exchange Quotations.

10.5—Orchestral Selections. March, The Horse Guards (Gilsourt). Russian Song, Moskwa (Decker). Romance from the Fourth Symphony (Schumann). Ballet (Lortzing).

10.30—Argentine Programme by Pili Cañete. 11.0—Ramon Tor recites from his own Poems. 11.10—Choral Concert. 12.15 a.m.(Friday)—Request Gramophone Records. 1.0 (approx.)—Close Down.

BELGRADE (Yugoslavia)

BELGRADE (Yugoslavia)

697 kc/s (430.4 m.); 2.5 kW.

Transmits at intervals from 11.0 a.m.

4.0 p.m.—Light Music on Gramophone Records. 5.0—Dance Music
by the Sadzo Jazz Orchestra. 5.30—

Gymnastics. 6.55—Time Signal
and Programme Announcements. 7.00

—French Dialogue. 7.30—Dance
Music (continued). 8.0—Medical

Talk. 8.30—See Ljubljama. 10.30—

News and Sports Notes.

11.0—Concert by the Station Orchestra. 12 midnight—Czigány Music
relayed from the "Potrosacka Zadruga." 12.30 a.m. (Friday)—Dance

Music from the "Ruski Car"

Restaurant. 1.0—Light Music on Gramophone Records. 2.0 (approx.) —Close Down.

BERLIN (Germany)

BERLIN (Germany)
Königs-Wusterhausen. 183.5 kc/s
(1,635 m.); 60 kW.
Transmits at intervals from 5.45 a.m.
11.30 a.m.—See Leipzig. 12.10—
Part Relay of the Demonstration for the Maintenance of the People's Theatre, relayed from the Schauspielhaus. Talk and Reading (Schiller), followed by Selections by the Berlin Symphony Orchestra, the Orchestras of the State and Municipal Opera Houses, and the United Choirs of the State and Municipal Opera Houses, conducted by Leo Blech. 1.0—Part Relay of a Concert from Berlin (Witzleben). 2.20—Reading of Lyrics. 2.30—Talk: The Return of Genius. 2.55—Reading from the Works of Goethe, Herder, Rückert. and Friedel Kamnitzer. 3.10—Recital of Old Danish Ballads and Romances, relayed from Hamburg. Recital of Old Danish Ballads and Romances, relayed from Hamburg, 4.15—Talk: Sea Voyages for Health on German Ships. 4.40—Talk: Blossom Time in Guben, relayed from Berlin (Witzleben), 5.20 (approx.)—Concert from Berlin (Witzleben), 7.0—See Langenberg, 7.45—Talk: Travelling in Germany, 8.0—See Langenberg, 10.30 (approx.)—Dance Music from Berlin (Witzleben), 12.30 a.m. (Friday)—Close Down.

BERLIN (Germany) Witzleben. 715 kc/s (419.5 m.); 1.5 kW.

Witzleben 715 kc/s (419.5 m.);
1.5 kW.

Transmits at intervals from 6.0 a.m. (Gymnastics and Hamburg Relay).
5.10 p.m.—Wind Instrument Concert of Light Music. 7.0—"Beloved Berlin"—a Variety Programme with Paul Graetz. 7.50—Sports Notes.
8.0—Orchestral Concert conducted by Bruno Seidler-Winkler. Overture, "Alessandro Stradella" (Flotow). Ballet Music from "King Manfred" (Reinecke). Der Hirt auf dem Felsen, for Soprano, Clarinet and Orchestra (Schubert). Waltz (Fuchs-Heuberger). Rhapsodic Prelude, The Triumph of Life (Peterka). First Suite from "Peer Gynt" (Grieg). Prelude to "Faust" (Gounod). Soprano Solo from "Faust" (Gounod). Soprano Solo from "Faust" (Gounod). Hallet Music, La Source (Delibes). Two Songs for Soprano and Orchestra: (a) Frieden (Pitraper)

(b) In meiner Heimat wird es nun Frühling (Trunk). Waltz, Bei uns zu Haus (Joh. Straus).

10.0—Weather, News and Sports Notes.

10.15 (approx.)—Dance Music from the Europa Pavillon.

12.30 a.m. (Friday)—Close Down.

BORDEAUX-LAFAYETTE

(PTT). 986 kc/s (304 m.); 13 kW.
Transmits at intervals from 12.45 p.m.
7.30 p.m.—News and Exchange
Quotations. 7.40—Talk: The Decrease in the Volume of International
Trade. 7.55—Lottery Results. 8.0 Trade. 7.55—Lottery Results. 8.0—Light Music on Gramophone Records. 8.15—News and Weather Forecast. 8.30—Popular Music on Gramophone Records. 9.0—"La Maison avant tout"—Comedy in Three Acts (Pierre Hamp).

BRATISLAVA

1,076 kc/s (279 m.): 14 kW.
Transmits at intervals from 5.10 p.m.
6.45 p.m.—Light Music on Gramophone Records.
7.0—See Prague.
10.15—Programme Announcements and News. 10.20—See Prague.

BRESLAU (Germany)

BRESLAU (Germany)

923 kc/s (325 m.); 1.5 kW.
Relayed by Gleiwitz, 1,184 kc/s
(253 m.).

Transmits at intervals from 6.30 a.m.
5.40 p.m.—See Berlin (Witzleben).
7.5—Weather Forecast.
7.10—Talk: The Earth a Schoolroom.
7.30—"Rustle of Spring"—a Radio Potpourri by the Station Choir and Orchestra, conducted by Franz Marszalek, and Soloists.
8.50—News Bulletin.

Marszalek, and Soloists. 8.50— News Bulletin. 9.0—"The German Provincials"— a Comedy (August von Kotzebue). 10.15—Time, Weather, News, Sports Notes and Programme Announcements. 10.40—Dance Music from Berlin (Witzleben). 12 midnight (approx.)—Close Down.

BRNO (Czechoslovakia)

878 kc/s (342 m.); 35 kW.

Transmits at intervals from 7.0 a.m.
7.0 p.m.—Reading (Bruno Brehms).
7.30—See Prague. 10.15—Announcements. 10.20—See Prague.

BRUSSELS (Belgium) (No. 1) Two Songs for Soprano and I.N.R. 590 kc/s (509 m.); 15 kW. Orchestra: (a) Frieden (Pfitzner), 7.0 a.m. and at hourly intervals throughout the day-Pigeon Flying Report. 12 noon-Variety Music on ort. 12 noon-Variety Music amophone Records. 12.30 p.m.

Gramophone Records. 12:30 p.m.— Weather Report.
12:40—Organ Recital by M. Joos, relayed from the Carmelite Church.
March (Benoit). Pâques fleuries (Mailly). Allegretto (De Boeck).
Cantilène (Jongen). Toccata

Cantilène (Jongen). (Guillaume).

1.0—Concert by Charles Remue and his Orchestra. 5.0—Concert of Light Music. 6.0—Variety Music on Gramophone Records. 7.15—Dialogue: Why should one listen to Wireless Talks? 7.30—Wireless

ogue: Why should one listent by Wireless Talks? 7,30—Wireless Notes.

8.0—Orchestral Concert, conducted by Jean Kumps. Soloist: Madeleine Mansion (Songs). Ballet, Les petits riens (Mozart). Selection from "Lakmé", (Delibes). Songs: (a) Aria (Lully), (b) Two Eighteenth Century Bergerettes (Weckerlin), (c) Arietta from "Richard Cœur de Lion" (Grétry). Waltz, Unter den Linden (Johann Strauss). Selection (De Taye). Melody in Falbuinstein). Saltarelle (Lacôme). Songs: (a) D'une Prison (Hahn), (b) Two Arias from "Manon" (Massenet), (c) Nicolette (Gilson). Fantastic March and Minet (Gilson). Suite (Messager).

BRUSSELS (Belgium) (No. 2)

BRUSSELS (Belgium) (No. 2)

N.1.R. 887 kc/s (338.2 m.);
15 kW. Programme in Flemish.
12 non—Gramophone Concert. Overture, "The Galiph of Bagdad" (Boieldieu). Waltz, Morgenblätter (Johann Strauss). More melodious Melodies. Selection from "The Bird Fancier" (Zeller).
12.30 p.m.—Weather Report.
12.30 p.m.—Weather Report.
12.30 p.m.—Weather Report.
(b) Le Vagabond et son chien (Tummers), (c) Rotterdam Extension (Schooremeyer). Hungarian Rhapsody No. 2 for Organ and Pianoforte (Liszt). Four Flemish Songs. Selection from "Schwanda the Piper" (Weinberger). Huwaiian Music: (a) Old Folks at Home, (b) Hawaiian Sweetheart of Mine. Twostep, In de Maand Mei (Jankovec). Waltz, Lavendel (Jankovec). Waltz, My Dream (Waldteufel). Waltz, Schwalben aus Wien (Translateur). Narche aux flambeaux (Meyerbeer).

Marche aux flambeaux (Meyerbeer).

5.0—Address by the Minister of State, M. Van Cauwelaert, on the occasion of the Rerum-Novarum Festival.

5.45—Programme for Children.

6.15—Talk by the Reverend Father Uten.

6.20—"Drama Christi" (Benoit) by the Schola Cantorum of the Dominicans, Louvain.

7.15—Religious Address on the occasion of the Ascension, by the Reverend Father Van Gestel.

7.30—Programme for Women.

8.0—Orchestral Concert.

Mme. Lanoo (Songs). Overture,

"Orpheus in the Underworld" (Offenbach). Dance of the Hours, fron "La Gioconda" (Ponchielli).

Songs. Waltz, Gold and Silver (Lehår).

from "La Gioconda" (Foncheili).
Songs. Waltz, Gold and Silver
(Lehår).

8.45—Gardening Talk. o.o—Concert (continued). Selection from
"Rose Marie" (Friml). Sérénade
a Lisette (Caludi). Songs. Selection from "Show Boat" (Kern).
Military March (Schubert). 10.0—
Le Journal Parlé. 10.10—Gramophone Records of Light Music.
10.55—Evening Prayer.

BUCHAREST (Romania)

Radio-Bucarest. 761 kc/s (394 m.) Radio-Bucarest. 701 ke/s (39.4 m.); 12 kW.

Transmits at intervals from 12 noon. 5.0 p.m.—Light Music and Romanian Music by the Dinico Orchestra. 6.0—News and Time Signal. 6.10—Orchestral Concert (contd.). 7.0—Talks on Art and Music. 7.40—Popular Music on Gramophone Records. 8.0—Song Recital by Mmc. Marie Oertel.

8.20—Symphony Concert, conducted by Carlo Brunetti. Overture, "The Bartered Bride" (Smetana). Three Symphonic Tableaux (Andrico). La Jeunesse d'Hercule (Saint-Saéns). 9.0—

ture, "The Bartered Bride" (Smetana). Three Symphonic Tableaux (Andrico). La Jeunesse d'Hercule (Saint-Saëns). 9.0—Talk (to be announced). 9.15—Symphony Concert (contd.). Variations on a Scottish Theme (Günter Raphael). Suite from "Sigurd Jorsalfar" (Grieg). 9.45—News Bulletin and Close Down.

BUDAPEST (Hungary)

5-15 kc/s (550 m.); 18.5 kW.

Transmits at intervals from 9.0 a.m.
Also relayed on 210 metres from 5.0-5.30 p.m., and from 7.25 to 12 midnight.
5.30 p.m.—Band Concert conducted 6.0

by Fricsay. Overture, "The Land of Smiles" (Lehár). Fantasia on the Works of Suppé. Selection from "Der Teufelsreiter" (Kálmán). Selection from "Die Fledermaus" (Strauss). 7.0—Radio Report on a Boxing Match. 7.30—"Rigoletto"—Opera (Verdi), relayed from the Opera House. After the Opera: Cigány Concert from the Hotel Metropole.

COPENHAGEN (Denmark) 1,067 kc/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 kc/s (1,153 m.). ransmits at intervals from 8.30 a.m.

Transmits at intervals from 8.30 a.m. (Gymnastics).

11.30 a.m.—Weather Forecast. 11.45
—News Bulletin. 12 noon—Time and Chimes from the Town Hall.

12.2 p.m.—Concert by Magens Hansens' Instrumental Ensemble. Overture, "The Barber of Seville" (Rossini). Serenade (Haydn). Rheinlegendchen (Mahler). Selection from "Il Trovatore" (Verdi). Selections from the Nutcracker Suite (Tchaikovsky): (a) Dance of the Sugar Plum Fairy, (b) Arab Dance, (c) Reed Pipe Dance. Adagio (Mozart). Persian March (Joh. Strauss). 1.0—Sports Relay.

Relay.

O-Orchestral Concert, conducted by Emil Reesen. Battle March (Möller). Overture, "Die Felsenmülle" (Reissiger). Valse des brunes (Ganne). Selection from "Tiefland" (D'Albert). Sacred Songs for Choir. Sclection from "Les Cloches de Corneville" (Planquette). Ballet Music from "Faust" (Gounod). Selections "Les Cloches de Corneville (Planquette). Ballet Music from (Planquette). Ballet Music from (Foust" (Joh. Strauss): (a) Pizzicato Polka, (b) Waltz, Wo die Citronen blühn. (b) Waltz, Wo die Church. (c) Wo die Citronen (b) Waltz (b) Waltz (c) Wo die Citronen (b) Waltz (c) Walt

concerts from the Town Table 5.2.

1. Orchestral Concert, conducted by Launy Gröndhal.

Soloist: Emil Telmanyi (Violinist).

Overture, "Rodelinda" (Händel).

Concerto in E Major for Violin and String Orchestra (Bach).

Selections from the Divertimento No. 17 in D Major (Mozart):

(a) Theme with Variations, (b)

Rondo. Romance in G Major for Violin and Orchestra (Beethoven).

Overture, "Coriolanus" (Beethoven).

Overture, "Coriolanus" (Beethoven).

10.0—News Bulletin.

0.10—Orhestral Concert of

Overture, "Coriolanus" (Beetloven). 10.0—News Bulletin.
0.10—Orchestral Concert of
Opéra-Comique Music. Soloist:
Villie Hagbo Petersen (Vocalist).
Overture, "Le Postillon de Longjumeau" (Adam). Song from
"Si j'étais Roi" (Adam). Overture, "The Brewer of Preston"
(Adam). Selection from "Fra
Diavolo" (Auber). Song from
"The Nuremberg Doll" (Adam).
Overture, "Le Cheval de Bronze"
(Auber).
1.0—Dance Music from the Ritz

(Auber).

It.o—Dance Music from the Ritz
Restaurant. 12 midnight—Time and
Chimes from the Town Hall. 12.30
a.m. (Friday)—Close Down.

DUBLIN (Ireland)

DUBLIN (Ireland)
(2RN). 725 kc/s (413 m.); 1.2 kW.
Relayed by Cork, 1,337 kc/s
(224.4 m.).
1.30—2.0 p.m.—Time Signal, Weather
Forecast, Stock Report and Light
Music on Gramophone Records.
6.0—Popular Music on Gramophone
Records.
6.15—Programme for
Children. 7.0—Light Music on
Gramophone Records. 7.10—News
and Dublin Cattle Market Report.
7.30—Time Signal. 7.31—French
Dialogue. 7.45—Station Sextet.
8.10—Mezzo-Soprano Solos by Gertrude Mortimer. 8.20—Baritone
Solos by P. J. Duffy. 8.35—Literary
and Dramatic Talk. 8.50—Harp
Solos by Annie Fagan. 9.5—Amrhain.
9.20—Traditional Fiddle. 9.30—
Choral Concert. 10.0—Pianoforte
Solos. 10.15—Station Sextet. 10.30— Choral Concert. 10.0—Pianoforte Solos. 10.15—Station Sextet. 10.30— Time Signal, News, Weather Fore-cast and Close Down.

FÉCAMP (France)

Radio Normandie. 1,364 kc/s (219.9 m.); 10 kW.
ransmits at intervals from 12 noon. 7-30 p.m.—Radio Announcements. 8.0—News Bulletin. 8.30—Relay of a Concert from the Town Hall, Rouen. 11.0—Dance Music and Variety Items. 1.0 a.m. (Friday)—Close

FRANKFURT-am-MAIN

(Germany) 770 kc/s (390 m.); 1.5 kW. Relayed by Cassel, 1,220 kc/s (246 m.). Transmits at intervals from 6.5 a.m. (Hamburg Relay). 6.0 p.m.—Talk on Shaw's Play

THURSDAY continued

"Great Catherine," to be performed at the Wiesbaden State Theatre in connexion with the Mai-Festspiele. 6.25—Talk: The Mediterranean in April. 6.50—Lyrics (Ina Seidel), recited by Charlotte Christann. 7.5—Prose Readings (Ossip Kalenter). 7.20—Sports Notes. 7.25 (from Wiesbaden)—Report on the Motor-Care and Elving. Tournament.

Prose Reading.

7.20—Sport's Notes.

7.25—Sport's Notes.

7.25

7.25—Sport's Notes.

7.25

7.25—Sport's Notes.

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7.25

7. (Fall). Waltz from "Where the Lark sings" (Lchár). Three Selections from "Eine Frau von Format" (Michael Krausz). Selection from "Das Fürstenkind" (Lehár). March from "Schön ist die Welt" (Lehár). Two Selections from "My Sister and I" (Benatzky). March from "Eva"

9.20—Austrian Programme—Literary and Musical Radio Sequence. 10.30
—Time, Weather and News. 10.50
—Dance Music from Berlin (Witz-leben). 12 midnight (approx.)—Close Down.

HAMBURG (Germany)

HAMBURG (Germany)
Norag (ha, in Morse). 806 kc/s
(372 m.); 1.5 kW. Relayed by
Brenen, 1,112 kc/s (270 m.);
Flensburg, 1,373 kc/s (218 m.);
Hanoter, 530 kc/s (560 m.) and
Kic/, 1,292 kc/s (232.2 m.).
Transmits at intervals from 6.15 a.m.
(Hamburg Harbour Concert).
5.45 p.m.— Schupo in Gloria —
a Radio Comedy (Robert Walter).
6.45 (from Bremen)—Trio Music.
Variations on a Theme by Mozart
(Beethoven). Trio on a Viennese
Melody of the Day (Gal).
7.15—Talk on Rhetoric: The
Thought Process of the Orator.
7.40—Sports Notes. 7.55—Weather
Report.

eport.

O-Vocal and Orchestral Concert.
Overture, "Die Abreise" (d'Albert).
Trio from the 'Third Act of
"Le Postillon de Longiumeau"
(Adam). Duet from the First Act
of "The Daughter of the Regiment" (Donizetti). Overture,
"Don Pasquale" (Donizetti).
Song from "Undine" (Lortzing).
Overture, "Die spräne Galethée" "Don Pasquale" (Donizetti).
Song from "Undine" (Lortzing).
Overture, "Die schöne Galarhée" (Suppé). Vocal Quartet from
"The Betrothal by Lanternlight" (Offenbach). Two Readings (Reuter and Liliencron). Die
Mär vom tapferen Schneiderlein (Zimmer). Vocal Trio from "Der liebe Augustin" (Fall). Song from "Frühlingsluft" (Josef Strauss-Reiterer). Song and Overture from "Boccaccio" (Suppe).
Soprano Solo: Aria from "La Strauss-Reiterer). Song and Overture from "Boccaccio" (Suppe).
Soprano Solo: Aria from "La vic parisienne" (Offenbach). Vocal Trio from "Fatinitza" (Millòcker). Duet from "Die Fledermaus" (Johann Strauss). March from "The Merry Widow" (Lehár). Overture, "La belle Hélène" (Offenbach).
10.0—Time, Weather and News.
10.20—Topical Talk. 10.30—Dance Music.

HEILSBERG (Germany)
1,085 kc/s (276.5 m.); 60 kW.
Relayed by Danzig, 662 kc/s

Relayed by Danzig,
(453.2 m.).
Transmits at intervals from 6.30 a.m.
(Concert from Danzig).
11.30 a.m.—See Leipzig.
11.31 p.m. (from Danzig)—Orchestral
Concert, conducted by Otto Selberg.
Overture, "The Water Carrier"
(Cherubini). Suite, Ländliche
(Cherubini). Suite, Ländliche
(Coldmark). Chopin-"The

(Cherubini). Suite, Ländliche Hochzeit (Goldmark). Chopiniana (Glazounov). Overture, "The Kiss" (Smetana). Second Suite from "L'Arlésienne" (Bizet). Aus aller Herren Ländern (Moszkovsky). Ballet Suite from "Esmeralda" (Drigo).
2.15—Talk for Young People. 2.45—Poems and Stories for Ascension Day.
3.15—Relay from the East Prussian Catholic Women's Day in Elbing—Talk: The Religious Strength of the Family. 3.45—"A Little Comedy about a Dog" (Kurt Riemann). 4.15—Relay of the Jumping Competition from the Horse Show at Insterburg. 4.45—Wind Instrument Concert. 6.15—Recital of Dance Songs. 6.45—Popular Music for Violin, Cello and Harp. Eugen Wilcken

15—Recital of Dance Songs.
45—Popular Music for Violin, Cello and Harp. Eugen Wilcken (Violin), Hermann Drichel ('Cello), and Friedel Ellguth (Harp). Selections for Violin, 'Cello and Harp:
(a) Ave verum (Mozart), (b) Elegy (Poenitz). 'Cello and Harp Duets:

(a) Hindu Lament (Barno), (b) Le Cygne (Saint-Saëns). Violin, 'Cello and Harp Selection: Harp Serenade (Oelschlägel).

Berenade (Oelschlägel).
15—An Appeal to Pedestrians,
celists and Motorists—Protect yourif against Accidents!
20—Mexican Programme by Josef
mzl.

8.0—"The Seasons" — Oratorio (Haydn) by Liselott Gross (Soprano), Fritz Jürgen (Tenor), Paul Lohmann (Bass), the Singakademie Choir, the Königsberg Choral Society and the Königsberg Opera House Orchestra, conducted by Huco Hartung, relayed from the Town Hall, Königsberg. Sports Notes. 10.15 (approx.)—News and Sports Notes. 10.15 (approx.)—Dance Music from Berlin (Witzleben). 12 midnight (approx.)—Close Down

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW.
Programme of the Algemeene
Vereeniging Radio Omroep Vereeniging

Vereeniging Radio Omroep (A.V.R.O.).

40 am.—Time Signal 8.41—
Gramophone Records of Light Music.

1,40—Daily Service.

1,55—Orchestral Concert conducted by Nico Treep. Soloists: Hélène Cals (Soprano) and Carel van Leeuwen Boomkamp ('Cello). Overture, "Egmont" (Beethoven). Soprano Solos (Händei) from (a) "Joshua," (b) "Judas Maccahaeus." Gramophone Records of Light Music. 'Cello and Orchestral Selections: (a) Concertante Symphony (Haydn), (b) "Cello Concerto ('Schumann). Gramophone Records of Light Music. Symphony in B Minor (Schubert). Et incarnatus est from the Mass in C Minor for Soprano and Orchestra (Mozart). Overture, "Rosamunde" (Schubert).

12-10 p.m.—Recitations. 12-40—Time Signal.

bert).
12.10 p.m.—Recitations. 12.40—
Time Signal.
12.41—Organ Recital by Prof. A.
Schweitzer. 1.10—Orchestral Concert relayed from the Central Hotel, The Hague. 2.40—Gramophone Records of Popular Music. 2.55—Records Arabus 2.10—A Redio 3.10—Interval. 3.10—A Radi Play. 4.40—Programme for Hosp

Play. 4.40—Programme for Hospitals.
5.40—Orchestral Concert conducted by Nico Treep. Overture, "The Merry Wives of Windsor" (Nicolai). Selections (Gillet): (a) Babillage, (b) La Toupie. Waltz, Donausagen (Fucik). Lustige Marionetten (Fetras). Gramophone Records of Light Music. Glow-worm Idyl! (Lincke). Gavotte from "Nakiris Hochzeit." (Lincke). Selection from "A Waltz Dream" (O. Straus). Gramophone Records of Light Music. March, Kamerad wir sind di Jugend (Stolz). Vineta-Glocken (Lindsay-Theimer). Waltz (Ziehrer). March, Colonel Bogey (Alford). 7.10—Talk on Sports.
7.40—Violin Recital by Fernando Zepparoni. Concerto in G Minor (Vivaldi). Romance in A Major (Schumann-Kreisler). Song, Meditation (Cottenett). Vocalise (Rachmaninov). Dance (Jerbel-Dushkin). 8.10—Talk. 8.40—Time Signal.

100—Talk. 8.40—Time Signal.
141—Weather and News.
155—Wagner Concert. The Hague
Orchestra, conducted by Albert
van Raalte. Soloists: Jacques Orchestra, Constantial Cons Varius (Tenor) and Sophie HausePienemann (Soprano). Overture,
"Rienzi." Prayer for Tenor and
Orchestra from "Rienzi." Overture, "The Flying Dutchman."
Selection for Soloists and Choir
from "The Flying Dutchman."
Choral and Orchestral Selection
from "Tannhäuser." Overture,
"Tannhäuser." Revitations. Bridal
Scene for Soloists, Choir and
Orchestra, from "Lohengrin."
Choral and Orchestral Selection
from "The Mastersingers." Prelude to "The Mastersingers."
10.55—Recitations. 11.10—Orchestral
Concert and Songs by Bob Scholte.
12.40 a.m. (Friday)—Close Down.

HUIZEN (Holland)

HUIZEN (Holland)

HOIZEN (Holland)

160 kc/s (1,875 m.); 8.5 kW.

9.10—10.10 a.m.—Religious Programme by the Catholic Radio Society (K.R.O.).

10.10—Organ Recital from the Works of Mendelssolm. Prelude and Fugue in G. Grave and Adagio from the Second Sonata. Allegretto from the Fourth Sonata.

10.30—Divine Service from the Parkkerk, Amsterdam.

11.40—K.R.O. Programme: Gramophone Records of Variety Music.

11.50—N.C.R.V. Programme Religious Music.

2.40 till Close Down—N.C.R.V. Programme. 2.40—Gramophone Records of Variety Music. 2.55—Relay of a Meeting of the Dutch Union of Young Men's Associations from Groningen. In the interval, Gramophone Records of Light Music. 5.40—Instrumental Concert. Oversture, "Si j'étais Roi" (Adam). A Honeymoon in Scandinavia (Juel-Frederiksen). Serenade (Ordla). Selection from "The Huguenots" (Moureheave).

(Juel-ra (Drdla). Selection. Huguenots" (Meyerbeer). Sirène (Waldteufel). Suite inter-nationale. (Tchaikovsky). Over-nationale. (Tchaikovsky). Girl"

ture, "The Bohemian Girl" (Balfe).
7.10—Controlto and Bass Song Recital. In the interval at 7.35—Talk.
8.40—Orchestral Concert. Psalma 24. Hymn 146. Vater unser im Himmelreich (Bach). Introduction, to the Cantata No. 42 (Bach). Prelude, Wachet auf (Bath-Bantock). Serenade, Op. 25 (Beethoven). 9.40—Recitations. 10.10—Concert (continued). Overture, Kirchliches Fest (Nicolai). Five Novelettes for Strings (Glazounov): (a) Alla spagnola, (b) Orientale. (c) Interlude in modo antico, (d) Allegretto, (e) All' ungherese. Overture, Minuet, Gavotte and Pastorale from "Masques et hergamasques" (Fauré). Prelude to the Third Act of "Le miroir de Jésus' (Caplet). In the interval at 10.40—News. 11.10—Gramophone Records of Variety Music. 12.10 a.m. (Friday)—Close Dewn.

Variety Music. 12.

—Close Down. 12.10 a.m. (Friday)

KALUNDBORG (Denmark) Kalundborg Radio. (1,153 m.); 7.5 kW. See Copenhagen. 260 kc/s

KATOWICE (Poland)

734 kc/s (408 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
5.45 p.m.—Orchestral Concert. 8.15
—Concert of Spring Music. 10.10
—Violin Recital by Zdzisłas Roesner.
11.0—Dance Music.

LAHTI (Finland) 167 kc/s (1,796 m.); 54 kW. Relayed by Helsinki, 815 kc/s (368.1 m.).

(368.1 m.). Transmits at intervals from 7.10 a.m., 7.10 p.m.—Talk. 7.35—Recital of Songs. 8.10 (from Helsinki)—Orchestral Concert. 8.45—News in Finnish and Swedish.

LANGENBERG (Germany)

Westdeutscher Rundfunk. 635 kc/s (473 m.); 60 kW.
Transmits at intervals from 7.0 a.m. (Hamburg Relay).
11.30 a.m.—See Leipzig. 12.5 p.m.—Hugo Wolf Settings of Goethe's Poems—Bass Song Recital byWilhelm Strienz (Bass), with Recitations by Richard Weimar. 12.40—Talk: Boating on the Rhine—Some Useful Hints.

Richard Weimar. 12.40—Talk: Boating on the Rhine—Some Uscful Hints.

1.0—Orchestral Concert conducted by Eysoldt. Overture, Robespierre (Litolff). Suite, The Crown of India (Elgar). Fantasia, Erinnerung an Bayreuth (Morena). Delirien-Walzer (Strauss). Paraphrase on the Song of the Volga Boatmen (Weninger). Country Scene, Boys and Girls (Clemus). Potpourri, From Vienna through the World (Hruby).

2.30—Talk for Amateur Gardeners.

2.50—Programme for Children. 3.30—Talk: Newspaper Canards.

4.30—Talk: Newspaper Canards.

4.30—Talk: German Women Overseas.—South America.

4.30—Orchestral Concert conducted by Wolf. Soloist: Hermann Munk (Songs to the Lute). Overture, In the Springtime of Life (Mouton). Waltz., O schöner Mai (Straus). May Day Songs to the Lute. (a) Min Herz hat sich geseliet (1540), (b) Der mayen (1544). (c) Was kann schöner sein (Kerr), (d) Komm, lieber Mai (Mozart). Selections from "Preciosa" (Weber). Ständchen (Richard Straus). Humorous Songs to the Lute: (a) Ein Brautpaar wollt zur Kirche gehn (Palatinate Folk Song), (b) Das Netz (Kramer-Clos). (c) Kuriese Geschichte (Reinick-Ritter). Selections from

Folk Song), (b) Das Netz (Kramer-Clos), (c) Kuriese Geschichte (Reinick-Ritter). Selections from "Das süsse Mädel" (Reinhardt). 6.0—Review of Books on Intellectual and Religious Questions of the Day. 6.30—Talk: The Rhenish-Westphalian Lime and Cement Industry. 7.0—Variety Programme. 7.45—Sports Notes Sports Notes.
8.0—"Il Seraglio"—Opera in Three

Acts (Mozart). After the Opera, News and Sports Notes. 10.30— Dance Music from Berlin (Witzleben). 12 midnight (approx.)—Close Down.

LEIPZIG (Germany)
1,157 kc/s (259 m.); 2 kW. Relayed
by Dresden, 941 kc/s (319 m.).
Transmits at intervals from 6.15 a.m.

11.30 a.m.—"Gott fähret auf mit Jauchzen"—Cantata for Ascension Day (Bach), by the Municipal and Gewandhaus Orchestra, and St. Thomas' Choir. 12.15 p.m.—Orchestral Concert. 2.0—Reading. 2.30—Chamber Music. 3.0—Reading. 3.30—Concert by the Dresden Madrigal Society. 4.30—Orchestral Concert.

gal Society. 4.30—Orchestral Concert.

6.0 p.m.—" Fritzische Rebellion"—
Play (Ernst Geyer).

7.0—May Songs and Love Songs to the Guitar by Edmund Barczyk):

(a) Wie schön blüth uns der Maien,

(b) Zum Reigen, (c) Unter der Linde. Folk Melodies: (a) Waldvögelein,

(b) Der neckende Kuckuck,

(c) Von den zwei Hasen. Three Songs (Edmund Barczyk): (a) Mainacht,

(b) Maienblüte, (c) Odu sonnige Welt. Three Songs (Edmund Barczyk): (a) Juchhe,

(b) Frühling in den Bergen, (c) Maien-Sinfonie.

7.30—A Sports Relay. 8.0—Concert by the Leipzig Symphony Orchestra conducted by Theodor Blumer. Soloist: Stefan Frenkl (Violin). Overture in D Major (Schubert). Polonaise No. 2 in E Major (Liszt). Selection: The Saracens (MacDowell). Valse caprice (Rubinstein) Selection: Overture, "Rübezahl" (Flotow). Selection from "Clo-Clo" (Lehār). Two Military Marches (Blech). Lieben und Leben (Fall). Two

from "Clo-Clo" (Lehar). Two Military Marches (Blech). Waltz, Lieben und Leben (Fall). Two Selections (Johann Strauss) (a) Per-petuum mobile, (b) Gallop: Tritsch, Tratsch.

170.5—News, followed by Concert by the Emdé Orchestra. 12 midnight (approx.)—Close Down.

LJUBLJANA (Yugoslavia) 522 kc/s (574.7 m.); 2.5 kW.
Transmits at intervals from 9.30 a.m.
5.0 p.m.—Concert of Light Music.
8.0—Popular Music on Gramophone
Records. 8.30—Duets from Operas.
9.15—Recitations. 10.0—Time and
Light Music on Gramophone Records.
10.15—Quintet Concert.

LWÓW (Poland)

788 kc/s (381 m.); 16 kW.

Transmits at intervals from 10.0 a.m.
6.45 p.m.—Announcements. 7.0—
Miscellaneous Items. 7.25—Talk:
The Statesman, Zbigniew Olesnicki. 7.45—See Warsaw. 12
midnight (approx.)—Close Down.

LyONS (France)
La Doua (PTT). 644 kc/s (465.8 m.);
1.5 kW. Transmits at intervals from 8.0 a.m.

7.0 p.m.—Popular Music on Gramo-phone Records. 7.30—Radio Gazette for Lyons and the South-East. 8.30 —Orchestral Concert, conducted by Raoul Barthalay.

MADRID (Spain)

MADKID (Spain)
Union Radio (EAJ7). 707 kc/s
(424.3 m.); 2 kW.
Transmits at intervals from 9.0 a.m.
8.0 p.m.—Chimes, Exchange, Market
Prices and Request Gramophone
Concert, 9.15—9.30—News Bulletin.
10.0—French Lesson on Linguaphone Records: 10.30—Chimes 10.0—French Lesson on Lingua-phone Records: 10.30—Chimes, Time Signal and Concert of Galician Music. 11.15—Band Concert, con-ducted by Marquina, relayed from the Hotel Nacional. 12.45 a.m. (Friday).—News Bulletin. 1.0— Chimes and Close Down.

MILAN (Italy)
Enie Italiano Audizioni Radiofoniche. 905 kc/s (331.5 m.);

MORAVSKÁ-OSTRAVA

(Czechoslovakia)
1,137 kc/s (263.8 m.); 11 kW.
Transmits at intervals from 7.0 a.m.
6.45 p.m.—Concert of Dance Music.
7,30—See Prague. 10.15—Programme
Announcements and Theatre Guide.
10.20—See Prague.

MOSCOW (Russia)

Trades Union. 230.1 kc/s (1,304 m.); 100 kW.
Transmits at intervals from 5.0 a.m. 6.20 p.m.—Proletariat Radio Journal. 7.15—Programme for Komsomols. 8.0—Review of the Week and Answers to Correspondents, in English. 9.55—Time Signal. 10.0—Weather Forecast. 11.0 (approx.)—Close Down.

MUNICH (Germany)
563 kc/s (533 m.); 1.5 kW. Relayed by Augsburg and Kaisers-lautern, 536 kc/s (560 m.); and Nünnberg, 1,256 kc/s (239 m.).
Transmits at intervals from 10.0 a.m. (5.5 p.m.—Haydn Concert—Unfamiliar and Forgotten Works.

7.c—The Beautiful World—a Talk with Recitations.
7.20—Wind Instrument Concert.
8.20—Bayarian Literature in 1932—the Goethe Year. Foreword by Wilhelm Weigand, followed by Readings from their own Works by Kurt Pfister, Lina Staab, Leopold Reitz and A. M. Frey.
9.10—Symphony Concert, conducted by Hans Winter. Soloist: Stefan Bergmann (Pianoforte). Symphonic Poem, Persephone (Maurice). Selection (Richard Strauss). Concerto in A Minor for Pianoforte and Orchestra (Schumann).
10.20—Time, Weather and News.
10.50—Concert from Sluttgart.
12 midnight (approx.)—Close Down.

OSLO (Norway)

OSLO (Norway)

Kringkastingselskapet. 277 kc/s (1,083 m.); 60 kW. Relayed by Predriksstad, 816 kc/s (367.6 m.); Hamar, 536 kc/s (560 m.); Notodden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (453.2 m.); and Rjukan, 671 kc/s (447.1 m.).

Transmits at intervals from 10.0 a.m. 5.0 p.m.—Classical Music on Gramophone Records. 6.15—"Mattre Pathelin"—a French Mediæval Play, translated and arranged for Radio by Aslang Rakner. 7.15—Weather and News. 7.30—Talk relayed from Bergen, 824 kc/s (364 m.). 8.0—Time Signal. 8.1—Choral Concert from the Cathedral, Trondheim. 9.10—Recitations. 9.40—Weather and News Bulletin. 10.0—Topical Talk. 10.15—The Sixth Symphony (the Pastoral) (Beethoven) by the Station Orchestra conducted by Hugo Kramma 11.15 (approx.)—Close Down.

PALERMO (Italy)

Ente Italiano Audizioni Radiofoniche. 554 kc/s (542 m.) 3 kW.
Transmits at intervals from 12.45 p.m.
5.30 p.m.—Popular Music on
Gramophone Records. 6.0—6.30
Programme for Children. 8.0—
Agricultural Notes and Giornale
Radio. 8.20—Light Music on
Gramophone Records. 8.30—Time
Signal and News Bulletin.
8.55—"La cena delle beffe"—Opera
(Giordano). In the intervals,
Cinema Notes. 10.55—News
Bulletin and Close Down.

PARIS (France)

Elifel Tower (FLE). 207.5 kc/s (1,445.7 m.); 13 kW. Time signals (on 2,650 m.) at 10.26 a.m. and 11.26 p.m. (preliminary and 6-dot signals).

6-dot signals).
Transmits at intervals from 1.0 p.m. Transmits at intervals from 1.0 p.m. 2.30 p.m.—Concert on the occasion of the Annual Assembly of the Central Life Boat Institution, relayed from the Sorbonne, Vice-Admiral Lacaze presiding. 6.45—Talk on the Theatre. 7.0—Le Journal Parlé. 8.20—Weather Forecast.

ast. 3.20—Weather Foreast. 3.0—Gramophone Concert. Selections (Saint-Saëns): (a) Concerto
in G Minor for Pianoforte and
Orchestra, (b) Phaëton, (c) Rêverie
du soir and Marche française
from the "Suite algérienne."
Potpourri of Vienneses Airs (Kronegger). Unter den Linden (Hugo
Felix). Selection (Stuhlmüller).
Saxophone (Wiedoeft). Frühlingsstimmen (Strauss). Czardas
(Grossmann). Songs from "La
Vie Parisienne" (Offenbach). Fantasia on Donizettis" 'La Favorita" tasia on Donizetti's "La Favorita" (Prévost). March, Austerlitz, 1815. La Marche des bonnets à poil 10.0 (approx.)—Close Down.

PARIS (France)

Poste Parisien. 914 kc/s (328.2 m.);
1.2 kW.
Transmits at intervals from 12 noon.
6.45 p.m.—News and Announcements. 7.0—Gramophone Records,
Talk and News. 7.30—Concert of
Popular Music on Gramophone Records,
Talk and News. 7.30—Concert.
Overture, "A Midsummer Night's
Dream" (Mendelssohn). Jota
aragonèse (Saint-Saëns). The
Unfinished Symphony. No. 3
(Borodin). Entr'acte from
"Joseph" (Méhul). Romance for
Viola and Orchestra (Bruch).
Ballet Music from "Rosamunde"
(Schubert). Serenade for Strings
(Haydn). Minuet from "The
Damnation of Faust" (Berlioz).
Turkish March (Mozart).
10.45—News Bulletin. 10.50 (approx.)—Close Down. Poste Parisien. 914 kc/s (328.2 m.)

PARIS (France)

THURSDAY continued

lection from "Enlevez-moi" (Gabaroche). Dream of Love after the Ball (Czibulka). Song of Summer (Peterson-Berger). Waltz (Lehár). 8.0—News, Weather and Press Review. 8.30—Physical Culture Lesson. 12 noon—Protestant Address. 12.30 p.m.—Gramophone Concert for Young People. In the interval, News and Weather. 6.30—Weather, Agricultural Report and Racing Results. 7.0—Variety Music on Gramophone Records. 7.45—German Press Review and Commercial Prices. 8.0—Programme arranged by the "Palais de la Nouveauté" with the Collaboration of Robert Marino and M. Fournier. 8.30—News, Sports Notes and Weather.

de la Nouveauté" with the Collaboration of Robert Marino and M. Fournier. 8.30—News, Sports Notes and Weather. 8.45—Gramophone Concert. Selection from "Les vingt-huit Jours de Clairette" (Roger). Ballet and Quadrille from "Virginie" (Bruneau). Trois petites pièces montées (Satie). Marionnettes (Glazounov). La Mélodie du Bonheur (Sylvain). Selections from "The Drum Major's Daughter" (Offenbach). 9.15—Press Review and News. 9.30—Gramophone Concert (continued). La Carterna (Guerrero). Paris, soleil du monde (Hermite and Ackermans). Waltz from "The Count of Luxembourg" (Lehár). Tango, Augustia (Pettorossi). Slow Foxtrot (May). Waltz (Frals). Visite à Ninon (Maquis). C'était un rève (Maquis). "Le Faucomier du roy"—One-Act Play (Bach and Laverne). La (Maquis). C'était un rève (Maquis).
"Le Faucomier du -roy"—OneAct Play (Bach and Laverne), La
Robe de Noce (Chepfer). In the
Silent Night (Ziehrer). RoseMousse (Bosc). Selection from
"Le Chemin du Paradis" (Heymann). Détresse (Charpentier).
Selèction from "Le Chemin du
Paradis" (Heymann):

POZNAŃ (Poland)

POZNAN (Poland)

806 kc/s (335 m.); 1.0 kW.

Transmits at intervals from 11.45 a.m.

7.0 p.m.—Miscellaneous Items and
Announcements. 7.20—Answers to
Agricultural Correspondence. 7.35—

Light Music on Gramophone
Records. 7.45—See Warsaw. 8.15

—Orchestral Concert. In the
intervals—Theatre Guide. 0.55—

10.40—See Warsaw. 10.40—Sports

Notes, and Police Report. 10.50—

(approx.)—Close Down.

PRAGUE (Czechoslovakia)

614 kc/s (488.6 m.); 120 kW.
Transmits at intervals from 7.0 a.m.
4.40 p.m.—Orchestral Concert, conducted by Fr Dyk, relayed from
Bratislava. 5.30—Talk for Workers.
5.50—Variety Music on Gramophone
Records. 6.0—Mother's Day Concert,
Lullaby, Op. 106, No. 3 (Schubert).
Sonata in E Minor for 'Cello, Op.
38 (Brahms), Ave Maria (Tosti).
7.0—Saxophone Solos.
7.30—"Der Opernball"—Operetta
(Heuberger). In the interval at 9.0—
Time and News. 10.0—Time and
News. 10.15—Announcements. 10.20
—Organ Recital from the Beranek
Cinema.

RADIO-SUISSE ROMANDE (SOTTENS) (Switzerland)

(SOTTENS) (Switzerland)
743 kc/s (403 m.); 25 kW.;
Lausanne, 442 kc/s (680 m.); and
Geneva, 305 kc/s (760 m.).
Transmits at intervals from 10.0 a.m.
5.0 p.m.—Orchestral Concert. 6.30—
(from Geneva)—Talk: The Life
of Cinema Stars. 6.45 (from Geneva)
—Programme for Children. 7.0—
Weather Forecast. 7.1 (from Geneva)
—Light Music on Gramophone
Records. 8.0 (from Lausanne)—
Religious Address. 8.25—Concert
by the Station Orchestra, conducted
by Fernand Closset.
9.30 (from Geneva)—Organ Recital
by William Montillet, with the
collaboration of the Mixed Choir
of St. Joseph's Church. Organ
Solo: Toceata for Ascension
(Frescobaldi). Choral Selection:
Ave Verum (de Prés). Selection
for Mixed Choir and Organ:
Messe audi filia (Montillet). Organ
Solo: Fugue in E Minor (Frescobaldi).
10.0—Weather Forecast and News

Solo: cobaldi)

Weather Forecast and News in. 10.15 (approx.)—Close Bulletin.

RIGA (Latvia)

ARIS (France)
Radio-Paris (CFR). 174 kc/s (1,725 m.); 75 kW.
45 a.m.—Gramophone Records. Se-light (1,725 m.); 75 kW.

RIGH (Latvia)
72 kc/s (525 m.); 15 kW.
Transmits at intervals from 12 noon.
6.0 p.m.—Wireless Notes. 6.30—
English Lesson. 7.0—Wcather Report.
7.5—Waldteufel Waltz Programme.
8.0—News Bulletin. 8.20—Soprano.
Song Recital by Ada Benefelds.

8.40—Orchestral Concert, conducted by Parups. 9.0—Weather and News. 9.35—Evening Concert. 10.30 (approx.)—Close Down.

ROME (Italy)

Ente Italiano Audizioni Radio-foniche (1RO). 680 kc/s (441 m.); 50 kW. Relayed by Naples, 941 kc/s (319 m.) and 2RO, 11,810 kc/s (25.4 m.). Transmits at intervals from 8.15 a.m.

Transmits at intervals from 8.15 a.m.
12.30—2.0 p.m.—Gramophone Concert of Variety Music. In the intervals: Weather, Giornale Radio, Exchange, Time and Announcements.
5.5—Programme for Children.
5.25—Giornale Radio and Announcements.
5.30—Song Recital by Vito Moreschi (Baritone). Aria from "Tannhauser" (Wagner). Abend im Hochgebirge (Grieg). Aria from "Tiefland" (d'Albert), Rivivere (Tirindelli).

häuser" (Wagner). Abend im Hochgebirge (Grieg). Aria from 'Tiefland' (d'Albert). Rivivere (Tirindelli).

5.45—Vaniety Concert. Overture, 'La dame blanche" (Boieldieu). Intermezzo, Luluetta (Culotta). Waltz, Passione zigana (Rusconi). Violin Solo: La follia (Corelli). Intermezzo, Sernatina (Solazzi). Character March, Il piccolo trombettiere (Carlini). ***—**—**—**—**—**—**—**

6.15—Talk: The Destruction of Herculaneum. 6.55 (from Naples).—**—**—**—**—**

5.hipping. 7.0—Agricultural Notes, Weather, Announcements, Giornale Radio and Press Review. 8.2—Gramophone Records of Variety Music. 8.30—Talk for Housewives, followed by Sports Notes and Announcements. 8.45—Variety Concert. Selection from "Tancred" (Rossini). Spanish Caprice (Rimsky-Korsakov). Cinema Notes. Soprano Solos: (a) Serenata (di Veroll), (b) Variations (Proch). Harp Solos. Topical Review. Vocal and Instrumental Selections from "Linda di Chamounix" (Donizetti). Gramophone Records of Variety Music. News after the Programme.

SCHENECTADY (U.S.A.)

SCHENECTADY (U.S.A.)
General, Electric Company (WGY),
790 ke/s (395 m.); 50 kW. Relayed
at intervals by W2XAF on 9,530
ke/s (31.48 m.) and by W2XAF on
01.53,340 ke/s (19.56 m.).
Transmits at intervals from 11.45 a.m.
8.30 p.m.—Woman's Radio Review
from New York.
0.0—Musical
Comedy Hits from New York.
0.30—Musical
Ad Men. 9.55—News Items.
10.0—Stock Reports and Police
Notices. 10.15—Skippy from New
York. 10.30—Children's Programme.
10.45—Musical Programme from New
York. 11.0—Joe and Eddie. 11.15—
Annette McCullough (Crooner), 11.30
—Musical Comedy Hits from New
York.

(Violin) and Otto Schaerer (Organ). 9.39—Concert by the Station Or-chestra. 10.0—Weather Forecast, News and Sports Notes. 10.15 (approx.)—Close Down.

(approx.)—Close Down.

STOCKHOLM (Sweden)
Radiotjänst (SASA). 689 kc/s
(436 m.); 55 kW. Relayed by
Boden, 244 kc/s (1,229.5 m.);
Göteborg, 932 kc/s (322 m.);
Hörby, 1,166 kc/s (257 m.);
Motala, 222.5 kc/s (1,348 m.);
Ostersund, 389 kc/s (770 m.); and
Sundsvall, 554 kc/s (542 m.).

Transmits at intervals from 7.20 a.m.
(Gymnastics and Service).
3.0 p.m.—Gramophone Records of

Transmits at intervals from 7.20 a.m. (Gymnastics and Service).
3.0 p.m.—Gramophone Records of Light. Music. 4.0—Programme for Children. 5.0—Weather and Talk: A Walk in Spring. 5.30—Choral Concert. 6.0—Evensong from a Church. 7.15—Weather, News and Sports Notes. 7.30—Sonata No. 1 in E Flat Major for Pianoforte (Haydn). 7.50—"The Adventure"—a Comedy (de Flers and Caillavet).
9.15—"The World of Children"—Orchestral Concert. Selections (Bizet): (a) Trumpeter and Drummer, (b) The Top. Selections (Debussy): (a) Gerenade for the Doll, (b) The Little Shepherd, (c) Golliwogg's Cake-Walk. A Wedding Procession in Lilliput (Translateur). The Musical Box (Liadov). Selections (Ansell): (a) Punch, (b) March of the Tin Soldiers, (c) Waltz, The Pretty Doll. 9.45—Weather and News.
10.0—Orchestral Concert. Overture, "Venus on Earth" (Lincke), Selection from "La Tosca" (Puccini). Waltz (Glinka). Suite from the Ballet "Sylvia" (De-

John 9.45—weather and News.
John Greett. Overture,
"Venus on Earth" (Lincke).
Selection from "La Tosca"
(Puccini). Waltz (Glinka). Suite
from the Ballet "Sylvia" (Delibes). Selection from "Sunny"
(Kern). 11.0 (approx.)—Close
Down.

Radio-Strasbourg (PTT). 869 kc/s (455 m.); 11.5 kW.
9.15 a.m.—Divine Service from St. Paul's Church. 11.30—Catholie

Service.
12 noon.—Gramophone Concert. Liszt
Les Préludes. 22 noon.—Gramophone Concert. Liszt Programme. Les Préludes. Rhapsody No. 11. Spanish Rhapsody. Sonetto del Petrarca. Mazepa. Etude in F Minor. Au bord d'une source. Prelude on Bach Finale from a Fugue.

2.45—News in French and German.

6.—Time Signal.

7.—Gramophone Concert. Elégie (Fauré). Waltz (Brahms). On entend une vieille boite (Séverac). Three

STUTTGART (MÜHL.

STUTTGART (MÜHL-ACKER) (Germany)
Süddeutscher Rundfunk. 832 kc/s (360.5 m.); 60 kW. Relayed by Freiburg, 527 kc/s (570 m.).
Transmits at intervals from 6.15 a.m. (Hamburg Relay). 10.40 a.m. (from Freiburg)—Catholic Morning Recital. 11.30—See Leipzig. 12.10 p.m.—Hugo Kaun Memorial Programme. "The German Rhine"—a Song Cycle (Kaun) by the St. Georgen Men's Choral Society; relayed from St. Georgen.

relayed from St. Georgen.

1.10—Quartet Concert relayed from Karlsruhe. Abschied von der Mutter (Bücker). My old Kentucky Home (Jüngst). O Wald in deinem Schatten (Baumann). Die Rosen (Wagenblass). Sternennacht (Schulken). Ae Spätzle liegt dort auf der Gass (Sonnet). Pfälzer Musikante (Landhäuser).

1.40—Readings from the Works of Eduard Mörike and Annette Droste-Hülshoft. 2.0—Gramophone Concert of Folk Music. 3.0—Programme for Children.

cert of Folk Music. 3.—Programme for Children.

4.—Orchestral Concert, conducted by Gustav Görlich. Soloist: Else Grünwald (Contralto). Selections from "Carmen" (Bizet): (a) Prelude to Act One, (b) Song, Habanera, (c) Prelude to Act Three, (d) Song. Prelude to "La Traviata" (Verdi). Song from "Il Trovatore" (Verdi). Waltz from "Faust" (Gounod). March, Preussens Gloria (Pietke). Waltz, Moonlight on the Alster (Fetras). Selections (Tschernetzki): (a) Fanfarenmarsch, (b) Brüder lustig! Overture, "Berlin wie es weint und lacht" (Conradi). Polka-Mazurka from "Die schöne Polin" (Millöcker). Three Russian Folk Songs with Balalaika Accompaniment. Zwanzinette (Lehár). Song from "Boccaccio" (Suppé). "Two Russian Folk Songs. Egyptian Serenade, Amina (Lincke). Two Songs. March, Frühlingskinder (Blankenburg). 6.0 (from Karlsruhe)— Author's Programme — Wilhelm Kohl.

Konl.
6.25—Trio Concert relayed from
Mannheim. Trio for Violin,
'Cello and Pianoforte (Schubert).
Trio for Violin, 'Cello and Pianoforte (Haydn).
7.20—Sports Notes. 7.45—Sec

Frankfurt. 10.30—News Bulletin. 10.50—Concert by the Stuttgart Philharmonic Orchestra.

TOULOUSE (France)

Radiophonic du Midi. 779 kc/s (385 m.); 8 kW.
Fransmits at intervals from 12.45 p.m.
5.0 p.m.—Transmission of Pictures.
5.15—Orchestral Selections. Minuet (Mozart). Pardon, Madame 15—Orchestral Setections. Madame (Mozart). Pardon, Madame (Abraham). Solveig's Song (Grieg). Tes yeux sont aussi profonds que la Volga (Stransky). Selection from "The Desert Song" (Rom-

(Abraham). Solveig's Song (Grieg). Tes yeux sont aussi profonds que la Volga (Stransky). Selection from "The Desert Song" (Romberg).

5.30—News Bulletin. 5.45—Orchestral Selections from "The Drum-Major's Daughter" (Offenbach) and "Rose Marie" (Friml). 6.0—Chansonnettes. 6.15—Military Music. 6.30—News Bulletin. 6.45—Orchestral Selections from the Ballet "The Three-Cornered Hat" (Falla). 7.0—Report for Tourists. 7.15—Sound Film Music. 7.30—News Bulletin. 7.45—Selections for Hunting Horn.

8.0—Concert. Noce de campagne (Chepfer). La revanche (Laurenz). Lejos del rancho (Polito). Si tu veux ma mignonne (Massenet). Le parfum impérissable (Bizet). Selection from 'Die Fledermaus" (Joh. Strauss). 8.30—Orchestral Selections. 9.0—Songs from 'The Barber of Seville" (Rossini) and "La Tosca" (Puccini). 9.15—Military Music. 9.30—Accordion Solos. 9.45—Medical Talk: Laryngitis.

10.0—Songs from "Pénélope" (Fauré) and "The Marriage of Figaro" (Mozart). 10.15—Orchestral Selections. Ballet Music from 'Manon' (Massenet). Overture, 'Mirella' (Gounod). 10.30—News Bulletin. 10.45—Songs from "La Usar a la Bouche" (Parès-Van Parys). 11.0—Concert. Ballet Music from 'Faust' (Gounod). The Stars were shining from 'La Tosca" (Puccini). L'Angelus de la mer (Goubiler). Señor commissario (Canaro). Im Linthal (Geiser). Gymnastic March. Quand les litas refleuriront. In a Persian Market (Ketelbey). Les patineurs (Waldteufel). Overture, "Sémiramis" (Rossini). Torch March (Meyerbeer). In the interval at 11.15—North African News. 12

THURSDAY continued

midnight — Weathef, Ments and Close Down. Announce-TRIESTE (Italy)

Ente Italiano Audizioni Radio-foniche. 1,211 kc/s (247.7 m.); 10 kW.

To kW.

Transmits at intervals from 8.15 a.m.

7.0 p.m.—Quintet Concert. Ojos negros (Negri). Flower Magic (Lindsay). Bambola Lenci (Marcello). Tokio (Lombardo). Selection from "La Donna perduta" (Pietri). Dialogo con la Luna (Chiri). La Villanella (Fiaccone). L'andalusiana (Carosio).

8.0 till Close Down—See Turin.

L'andalusiana (Catosio).

8.0 till Close Down—See Turin.

TURIN (Italy)

Ente Italiano Audizioni Radiofoniche. 1,096 kc/s (273.7 m.);

7 kW. Relayed by Milan, 905 kc/s (331.5 m.); Florence, 599 kc/s (500.8 m.); and Genoa, 950 kc/s (312.8 m.).

Transmits at intervals from 8.15 a.m.

6.45 p.m.—Agricultural Notes. 7.0—Announcements.

7.5—Musical Selections. Fantasia (Yoshitomo). Prelude to the Third Act of "The Cricket on the Hearth" (Goldmark). Festa villereccia (Billi). Pupazzetti giapponesi (Ranzato). 7.30—Time and Announcements. 7.31—Gramophone Records of Variety Music. 8.0—Giornale Radio and Announcements. 8.15—Concert by a Plucked String Orchestra.

8.30 (in an interval)—Talk for Housewives.

9.0—"I Pupitani"—Opera in Three Acts (Bellini). In the intervals—Film Notes, Talk and Giornale Radio. News after the Programme.

VIENNA (Austria)

Austria)
Radio-Wien. 581 kc/s (517 m.);
15 kW. Relayed by Graz, 852 kc/s
(352.1 m.); Innsbruck, 1,058 kc/s
(283 m.); Klagenfurt, 662 kc/s
(453.2 m.); Linz, 1,220 kc/s (246
m.), and Salzburg, 1,373 kc/s
(218 m.).

(218 m.).

Transmits at intervals from 0.40 a.m., 6.50 p.m.—Song Recital by Niels Hansen. Legend of the Graal from "Lohengrin" (Wagner). Song at the Forge from "Siegfried" (Wagner). Siegmund's Love Song Music on Gramophone Records. 4.40—Talk: Napoleon in Fiction and in Reality. 4.55—Popular Music on Gramophone Records.

from "The Valkyries" (Wagner). Aria from "Manon" (Massenet). Prize Song from "The Mastersingers" (Wagner). 7.25—Tine Signal, Sports Notes and Programme Announcements. 7.35—"La Tosca"—Opera in Three Acts (Puccini) on Gramophone Records by the Cast of the Scala, Milan, conducted by Lorenzo Malajoli. 0.35—News Bulletin and Announcements. 9.50—Programme of Dance Music by the Hanns Robert Korngold Jazz Band, with Vocal Refrains by Charles Baker.

WARSAW (Poland)

WARSAW (Poland)
Polskie Radio. 212.5 kc/s (1,411 m.); 120 kW.
10.0 a.m.—High Mass relayed from Cracow, 959 kc/s (312.8 m.). 11.58—Time Signal and Bugle Call from the Tower of St. Mary's Church, Cracow. 12.5 p.m.—Programme Announcements. 12.15—Weather Report. 12.15—Symphony Concert by the Warsaw Philharmonic Orchestra, conducted by B. Wolfstal. Soloists: J. Goldevska (Vocalist) and S. Tavroszevicz (Violin). Symphony No. 8 in F. Major (Beethoven). Songs: (a) Two Arias from "Orpheus and Eurydice" (Glück), (b) Addio (Mzart), (c) Erinnerung (Beethoven), (d) Kennst du das Land? (Beethoven). Violin Concerto.

Erinnerung (Beethoven), (d) Kennst du das Land? (Beethoven). Violin Concerto.

.o—Talk: Honey.
.oo—Concert of Light Music by the Rachon Sevtet. Janiszevsky. (Cello) and B. Nietyksza (Tenor). March of the Janissaries (Reiterer). Waltz, Gold and Silver (Lehar). 'Cello Solo: Chanson triste (Tchaiskovsky). Mazurka (Namyslovsky). 2.40—Agricultural Talk. 3.0—Concert (contd.). Waltz, The Vistula (Pianovsky). Potpourri, Dividenden (Morena). 'Cello Solo: Childhood Memories (Popper). Waltz from 'Pan Tvardovsky' (Rozycky). Flegy (Lincke). Tango, Pourquoi (Valerio). The Sparrows' Parade (Rathice). 'Tango (Lebkovsky). Memories of Wilno (Eilenberg). Boston (Freudenthal). Mazurka (Pianovsky). March (Fucik).

55—Programme for Children. 4.20

(May 6)

APRIL 29, 7932

5.10—Talk relayed from Cracow.
5.35—Useful Hints.
5.45—Concert by the State Police
Band, conducted by Al. Sielsky,
with Edv. Zwidryn (Soprano).
Pianoforte accompeniment by
Louis Urstein. Polonaise No. 5
(Oginsky). Waltz, Wo die Zitronen
blüh'n (Johann Strauss). Selection from "Carmen" (Bizet).
Minuet (Paderevsky). Songs: (a)
Air from "Die tote Stadt "(Korngold), (b) Song from "Lakmé"
(Delibes), (c) Air from "The Magic
Flute" (Mozart). (d) Air from
"The Marriage of Figaro"
(Mozart). Overture, "Light
Cavalry" (Suppé). Intermezzo
(Siede). Cavatina (Raff). March,
El Capitan (Sousa).
7.0—Miscellaneous Items.
7.15—Light Music on Gramophone Records.
7.46—Programme Announcements.
7.45—Dramatic Programmes.

Capital (Subsa).

Light Music on Gramophone Records.

7.40—Programme Announcements.

7.45—Dramatic Programme.

8.15—Concert of Spring-time Music.

by the Station Orchestra, conducted by S. Nawrot. Soloists: M. Fogg (Vocalist), R. Szulc (Xylophone) and Louis Urstein (Pianoforte).

Overture, The Festival of Flowers (Fetras). Frühlingserwachen (E. Bach). Intermezzo (Mannfred). Blumengeffüster (Blon). Songs. (a) Lily of the Valley (Julsky), (b) Air (Hakos), (c) Spring is singing (Gordon). Xylophone Solos: (a) Fantasia on the Air "Home Sweet Home "(Fredhe), (b) Nightingale's Song (Recktenwald). Rustle of Spring (Sinding). Waltz (Haines). Spring (Mauder). The Narcissus (Nevin). Die Lotusblume (Lincke). Songs: (a) Air (Krupinsky), (b) Frauen und Blumen (Grothe), (c) Song (Mis). Xylophone Solos: (a) The Awakening. of the Spring Fowers (Löhr), (b) Polka (Radcke). Spring Suite (Nevin-Artok). Waltz, Frühlingsstimmen (Johann Strauss). March, Frühlingsankunft (Blon). 9.55—Reading.

10.0—Violin Recital by Z. Roesler. Sonata, II Trillo del diavolo (Tartini). Catalan Song (Albeniz-Dushkin). Arab Melody (Glazounov). Poème (Chausson). Melody (Nick-Frenkel). Waltz (Hummerl-Burnester).

(Nick-Frenkel). Waitz (Hummerl-Burmester).
10.40—Weather and Police Notes.
10.45—Sports Notes. 10.55—Interval. 11.0—Dance Music. 12 midnight (approx.)—Close Down.

PRINCIPAL EVENTS

SYMPHONY CONCERTS

8.15 p.m. Warsaw: The Philharmonic

Orchestra.
Vienna: The Bruckner
Symphonies, No. 5. 9.10 ,,

CONCERTS (Vocal and Instrumental)

7.25 p.m. Vienna: Old Dance Music and Songs. Leipzig, Königs Wusterhausen, Langenberg: Operetta music.
Radio-Paris: "Faust in Music."
Brussels No. 1: The new Radio

9.15 (app.) Orchestra.

9.20 ,, 10.15 ,, Stuttgart, Frankfurt: Cembalo music. Copenhagen: Old Danish Music. Strasbourg: Programme relayed from

10.30 ,,

10.45 " Frankfürt, Stuttgart: Late Concert.

OPERAS AND OPERETTAS

Hanburg: "Knight Roland" (" Orlando Paladino") (Haydn). Breslau: "The Barber of Bagdad" (Cornelius). 7.55 p.m.

8.0

8.5 Heilsberg: Opera Excerpts. 12

CHAMBER MUSIC

9.0 p.m. Budapest: Pianoforte Trios. Italian stations (Northern). 9.0

9.0 Radio-Suisse. Romande: Pianoforte Trios.

PLAYS AND TALKS

4.45 p.m. Radio-Paris: "The History of Music,"

(Paul Landormy).

"Berlin (Witzleben): "Humboldt and Berlin University."

"(app.) Rome: "Peccato" (Poggio). 7.30 9.0

MISCELLANEOUS

9.0 p.m. Munich: The Trautonium and the Neo-Bechstein.

DANCE MUSIC

10.35 p.m. Vienna.

11.15 ,, (app.) Berlin (Witzleben), Königs Wusterhausen.

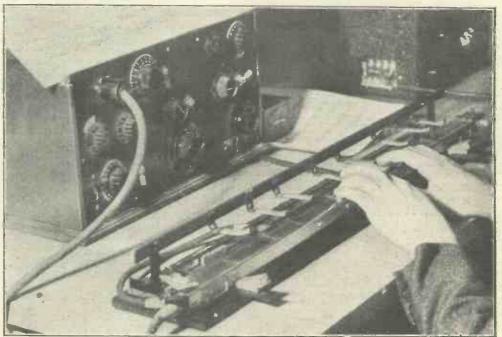
FRIDAY

Two Electric Inventions

"Das Deutsche Museum," Munich, is the largest of the world's museums which are devoted wholly to technical inventions. Once a year its governing body organises a meeting of distinguished scientists this year it takes the form of a dinner in the old Town Hall, at which two of the guests are to be Geheimrat Professor Dr. Nernst of Berlin University,

and Dr. Trautwein of the Hertz Institut in Berlin. Geheimrat Nernst will explain his electric pianoforte, the Neo-Bechstein, in which the soundboard is replaced by an amplifier and loud speaker, with a series of electro-magnets

by which the tones are "picked up." Dr.
Trautwein will speak of his Trautonium, the
electric musical instrument which Telefunken
make, and of which some account has already been given in our pages. Recitals on both instruments will follow, and speeches and recitals are to be broadcast by MUNICH station. The time is 9 p.m.



[l'holo: A. A. Gulliland.

The Trautonium Manual

NATIONAL I-W 1,148 261.3 50 London: Daventry: 193 1,554.4 Northern: 995 301.5 50

10.15 a.m.—The Daily Service.
10.30—Time Signal (Greenwich),
Shipping Forecast.
10.45—11.0—"The Week in Westminster." Miss Megan Lloyd
George, M.P.
12 noon—Emanuel Starkey and his

George, M.P.

12 noon—Emanuel Starkey and his Orchestra.

12.45 p.m.—An Organ Recital by Walter Vale.

1.0—Time Signal (Greenwich).

1.30—New Gramophone Records (Christopher Stone).

2.25—For the Schools. Reception Test.

2.30—Rural Science. "How our Food is Produced"—II. Sir John Russell, F.R.S.

Nusseil, F.R.S.

3.0—" Life and Work in the British Isles"—III. Station-Officer F. J. Bryant: "The Coast-Guard."

3.20—Interval.

3.20—Gramophone Records for Schools.

Schools.
4.15—The Scottish Orchestra, directed by Guy Daines.
4.45—Time Signal (Greenwich).
5.15 (Daventry)—The Children's

4.45 Third Squaretry)—The Children's Hour.
5.15 (London and Northern)—The B.B.C. Dance Orchestra.
6.0—"The First News."
6.30—Time Signal (Greenwich).

6.30—Time Signal Greenwich).
6.30—Time Signal Greenwich).
6.30—Time Signal Greenwich MusicSchumann Quartets, played by the Kutcher String Quartet.
6.50—"Your Week-End in the Garden." Mr. W. Brett.

den." Mr. W. Brett.
7.10—7.25—The B.B.C. Music Critic.
Mr. Ernest Newman.
7.30—" The Changing Face of
Nature"—IV. Professor James
Ritchie, D.Sc.
8.0—A Recitat. Elena Danieli
(Soprano), Egon Petri (Pianoforte).
9.0—Time Signal (Greenwich).

9.0—Time Signal (Greenwich).
9.0—"The Second News."
9.15—Shipping Forecast; New York Stock Market Report.
9.20—"Here and Now." Mr. Gerald Barry.
9.35—An-Orchestral Concert. The B.B.C. Orchestra (Section D), conducted by Edward Clark. Arthur Catterall (Violin).

11.0—12 midnight—Dance Music-The Savoy Hotel Orpheans. 11.30—Time Signal (Greenwich)

REGIONAL

kW. ke/s London: 842 356.3 50 Midland: 752 398.9 Northern: 626 479.2 25

10.15 (London and Northern)—The Daily Service.
10.30—11.0 (London and Northern)
—Daventry National Programme 11.30—12 noon (London)—Experimental Television Transmission (Baird Process).

noon-Midland Regional Pro-

gramme.

1.0 p.m.—The New Victoria Cinema Orchestra, conducted by Haydn

Orchestra, conducted by Flayers
Heard.
2.0—3.0—The Northern Studio
Orchestra. Bessie Hill (Contralto).
4.15 (London and Northern)—
Daventry National Programme.
5.15—The Children's Hour.
6.0—"The First News"

6.0—"The First News"

6.30—A Band Concert. The Amington Band, conducted by Roland Davies. Edmond Letts (Baritone).

7.30 (London)—The Gershom Parkington Quintet. Frank Drew (Tenor).

7.30 (Midland)—Light Music. Ernest Parsons and his Orchestra.

7.35 (Northern)—Rex O'Grady at the Organ.

8.0 (Northern)—Musical Comedy Selections.

8.30 (London and Midland)—The B.B.C. Dance Orchestra, conducted by Henry Hall.

9.15—"Caractacus.", A Music-Drama for Parafer Parafer.

by Henry Hall.

9.15—"Caractacus." A Music-Drama for Broadcasting. Devised and Written by Peter Creswell.

Composed by Leslic Woodgate.

10.15—"I The Second News."

10.35—Dance Music. Daventry

National Programme.

11.0—Broadcast from

National Programme.

11.0—Broadcast from America.

"New England." A dramatised version of "Miles Standish," with incidental music under the direction of Howard Barlow.

11.3—12 midnight—The Savov Hotel Orpheans.

NOTE: THE HOURS OF TRANSMISSION ARE RE-DUCED TO BRITISH SUMMER TIME

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW.
Transmits at intervals from 12.30 p.m.
7.0 p.m.—Light Music. 7.10—
Financial Report, Market Prices and

Financial Report, Market Prices and Exchange Quotations. 7.20—Financial and Agricultural Notes and Shipping. 7.25—Agricultural Talk. 7.40—Chansonnettes. 7.55—News and Time Signal. 8.0—Concert of Suites and Ballets. Ballet Music from "Hérodiade" (Massenet). Moorish Rhapsody (Saint-Saens). Children's Corner (Debussy). Carnival (Guiraud). Petite Suite (Busser). En Bretagne (Rhené-Baton). 9.15—Songs from Operas. 9.30—Dance Music relayed, from the Municipal Casino.

BARCELONA (Spain)
Radio-Barcelona (EA]1). 860 kc/s (349 m.); 8 kW.
Transmits at intervals from 8.30 a.m. 8.0 p.m.—Concert by the Station Trio. Canción de amor (Buré). Selection from "Don Quixote" (Massenet). Entr'acte (Chillemont). Rève (A. d'Ambrosio). 8.30—Exchange Quotations and Elementary French Lesson. 9.0—Request Gramophone Records and Press Review. 10.0—Chimes, Weather, Exchange and Relay of Foreign Stations. 10.30—Orchestral Selections.

Foreign Stations. 10.30—Orchestral Selections.

11.0—Orchestral Concert of Romanian Music, preceded by a Short Address by the Romanian Consul, Mr. Bonet, Marsillach. Soloists: Rosaura Coma (Pianoforte) and Julio Jarque (Violin). Sonatina for Pianoforte (Andrico). Concertante Rhapsody for Violin and Pianoforte (Stan Golestan). Three Romanian Dances for Orchestra (Belä Bartok). Romanian National Anthem.

Anthem.
11.30—Orchestral Concert from the Café Español. 1.0 a.m. (Saturday)—Close Down.

BELGRADE (Yugoslavia)

BELGRADE (Yugoslavia)
607 kc/s (430.4 m.); 2.5 kW.
Transmits at intervals from 11.0 a.m.
3.45 p.m.—Popular Music on Gramophone Records.
4.30—Talk (to be announced). 5.0—Yugoslavian Music by the Zivkovic Orchestra.
5.30—Yugoslavian Songs with Accordion accompaniment.
6.55—Time Signal and Programme Announcements.
7.0—Czech Lesson.
7.30—Talk (to be announced).
8.0—Talk for Sokols.
8.30—Trio Concert.
9.10—Arias and Duets from Yugoslavian Operas.
9.50—Concert by the Station Orchestra.
10.30—News and Sports Notes.
10.50—Music relayed from the "Sablja Dimiskija."

BERLIN (Germany)

BERLIN (Germany)

Königs Wusterhausen. 183.5 kc/s (1,635 m.); 60 kW.

Transmits at intervals from 5.45 a.m. (Weather, Gymnastics and Concert Relay).

12 noon—Weather for Farmers.
12.2 p.m.—Gramophone Concert of German Regimental Marches, followed by Weather for Farmers.
12.55—Time Signal. 1.30—News Bulletin. 2.0—Gramophone Concert of Light Music relayed from Berlin (Witsleben). 3.0—Talk for Girls.
3.30—Weather and Exchange. 3.40—Programme for Children. 4.0—Educational Talk. 4.30—Concert from Breslau. 5.30—Talk 6.0—Talk: Unfamiliar Music of Bach's Day. 6.30—Talk: Workers and the Economic Crisis. 6.55—Weather for Farmers. 7.0—Topical Talk. 7.15—Talk for Doctors. 7.35—Talk for Workers, followed by Weather for Farmers. 8.0—Concert from Leipzig. 9.0—See Berlin (Witsleben). 12.30 a.m. (Saturday)—Close Down.

BERLIN (Germany)

BERLIN (Germany)

BERLIN (Germany)

Witzleben. 715 kc/s (419.5 m.);
1.5 kW.
Transmits at intervals from 6.0 a.m.
(Gymnastics and Concert).
435 p.m.—Orchestral Concert concert on F Major for String Orchestra and Cembalo (Scarlatti).
Concertante Quartet in E Flat Major for Oboe, Clarinet, Horn, Bassoon and Orchestra (Mozart).
Concert Suite from "Der Dämon"
(Hindemith).
5.35—Programme for Children. 5.55
—Book Review. 6.5—Concert from the Hotel Bristol.
Market Report. 6.35—Kasimir Edschmid reads from his own Works.
6.55—"The Witzleben Station in-

FRIDAY continued

forms its Listeners. 7.0—Topical Talk. . 7.10—Talk: Austria as an Economic and Social Problem. 7.30—Talk: Wilhelm von Humboldt and Berlin University. 8.0—A Visit to Berlin University. 8.0—A Visit to Berlin Variety Theatres and Cabaret Entertainments. 9.0—News and Sports Notes. 9.10—"Lieutenant Komma"—Play (Frank Maar). 10.40—Weather, News and Sports Notes. 11.0—Programme in aid of the Radio Relief Fund, followed by Dance Music. 12.30 a.m. (Saturday)—Close Down.

Close Down.

BORDEAUX-LAFAYETTE

BORDEAUX-LAFAYETTE

(France)

(PTT). 986 kc/s (304 m.); 13 kW.
Transmits at intervals from 12 noon.
7.30 p.m.—News Bulletin. 7.40—
Educational Talk. 7.55—Lottery
Results. 8.0—Advanced Spanish
Lesson. 8.15—News and Weather
Forecast. 8.20—Charades.
8.30—Orchestral and Choral Concert.
Soloist: Mille. Chauveau Bourdil
(Vocalist). Selection from "Benvenuto Cellini" (Berlioz-Salabert).
Selection from "Nero" (Boito-Billi). Choral Selections: (a)
Hymn to Night (Rameau), (b)
Mignonne (Bordogni). Two Songs:
(a) Aria from "Rigoletto" (Verdi),
(b) Aria from "Rigoletto" (Verdi),
(b) Aria from "Manon" (Massenet).
Symphony (Mozart-Salabert).
Choral Selections: (a) La Sérénade
d'hiver (Saint-Saèns), (b) Vivat
(Carlier). Songs: (a) Aria from
"The Barber of Seville" (Rossini),
(b) Song from "Si j'étais Roi"
(Adan). Selection from the Nutracker Suite (Tchaikovsky-Weinger).
After the Programme,
Hordeaux Amusement Guide and
Time Signal.

BRATISLAVA

1,076 kc/s (279 m.); 14 kW.
Transmits at intervals from 10.30 a.m.
6.40 p.m.—Light Music on Gramophone Records. 7.0—See Prague.
10.15—Progranime Announcements and News. 10.20—Concert by a Czigány Orchestra relayed from the "Elisabeth" Café.

"Elisabeth" Café.

BRESLAU (Germany)
923 kc/s (325 m.); 1.5 kW. Relayed
by Gleiwits, 1,184 kc/s (253 m.).
Transmits at intervals from 6.0 a.m.
6.55 p.m.—Orchestral Concert conducted by Franz Marszalek. Selections from "The Black Orchid" (d'Albert). 'Cello Solo by Kurt Becker: Hungarian Rhapsody (Kletzer). Straussfedern—Suite on Melodies by Johann Strauss (Morena). Overture, "Poet and Peasant" (Suppé).
7.50—Weather Forecast. 7.55—Introductory Talk to the following Transmission.
8.0—"The Barber of Bagdad"—Comic Opera in Two Acts (Cornelius). 10.0—Time, Weather, News, Sports Notes and Programme Announcements. 10.30—Dance Music In an interval at 11.10—Weekly Sound News from the Gloria-Palast. 12 midnight (approx.)—Close Down.

BRNO (Czechoslovakia)

BRNO (Czechoslovakia)

878 kc/s (342 m.); 35 kW. Transmits at intervals from 10.30 a.m. 6.25 p.m.—German Transmission: News and Talk: Films in Schools. 7.0—See Prague. 10.15—Announce-ments. 10.20—See Prague.

BRUSSELS (Belgium) (No. 1)

BRUSSELS (Belgium) (No. 1)

I.N.R. 590 kc/s (509 m.); 15 kW.
12 noon—Gramophone Records. Selection from "Alcestis" (Gluck).

Ballet Music Irom "Isoline" (Werdi). Barcarolle (Raclimaninov).
Souvenir (Drdla). Czardas from "Othello" (Yerdi). Barcarolle (Raclimaninov).
Souvenir (Drdla). Czardas from "Oes Geist des Wojewoden" (Grossmann).

12.30 p.m.—Weather Report. 12.40—Trio Concert. 1.0—Concert by Charles Remue and his Orchestra.
5.0—Orchestral Concert, conducted by Franz André. March, Washington Post (Sousa). Selection from "Tip Toes" (Gershwin). Song for the Volga Boatmen (Dyck). Pliaska (Dyck). Waltz, Wienerblut (Johann Strauss). Selection from "La Vie Parisienne" (Offenbach). Foxtrot, Yes, Yes (Conrad). Wedding March of a Doll (Lecocq). Ballet Music from the Nutcracker Suite (Tchaikovsky). Banderillero (Grecco).
6.0—Gramophone Records of Variety Music. 6.15—Talk: The History of Belgian Sculpture. 6.30—Gramophone Records: Selection from "The

Damnation of Faust" (Berlioz). 7.15—Talk: Occupational Diseases— Mercurial Poisoning, 7.30—Music Review by Marcel Poot.

Review by Marcel Poot.

8.0—Concert by the Tea Room Orchestra.

Soloist: Mlle. Klein (Songs). Fête (Infante). Le Pas des Fleurs (Delibes). Songs: (2) Aria from "The Seasons" (Haydn), (b) La Route d'Eméraude (De Boeck).

8.45—Poetry Reading.

9.0—Concert (continued). Danse des Lutins (Leemans). Songs: (a) Soir d'avril (Dorct), (b) Le Temps des Lilas (Chausson). Arab Patrol (Mannfred).

des Lilas (Chausson). Arab Patrol (Mannfred).

15 (approx.)—Radio Orchestra, conducted by Charles Walpot. Soloists: Germaine Light (Songs) and M. Piergyl (Baritone). March, The Archduke Albert (Komzák). Spanish Overture, Paola la Torera (Michiels). Intermezzo (Siede). Baritone Solos from "Les Mousquetaires au Couvent" (Varney). Selection (Salabert). Aria from "La Fille de Madame Angot" (Lecocq). Songs from "The Drum Major's Dauptter" (Offenfrom "La Fille de Madame Angot" (Lecocq). Songs from "The Drum Major's Daughter" (Offenbach). 10.0—Le Journal Parlé. 10.10—Concert (cond.). Campane a Sera (Billi). Foxtrot (Langlois). Waltz, Künstlerleben (Johann Strauss). Aria from "A Waltz Dream" (Oscar Straus). Aria and Waltz from "Les Cloches de Corneville" (Planquette). Offenbachiana (Conradi). Operetta Potpourri. Foxtrot (Leslie). American Potpourri (Salabert).

BRUSSELS (Belgium) (No. 2)

N.I.R. 887 kc/s (338.2 m.); 15 kW. Programme in Flemish. 12 noon—Variety Music on Gramophone Records. 12.30 p.m.—Weather. 12.40—Gramophone Concert of Light Music.

5.0—Orchestral Concert conducted by Jean Kumps. Symphony in

12.40—Gramophone Concert of Light Music.

5.0—Orchestral Concert conducted by Jean Kumps. Symphony in C (Mocart). Aria (Bach). Orchestral Suite (Gluck-Gevaert). Overture. "Ruy Blas" (Mendelssohn).

6.0—Gramophone Records. Selection from "Les Saltimbanques" (Ganne). Berceuse (Cui). Wedding March of the Sleeping Beauty (Rhode). 6.15—Talk on Economics.

6.30—Gramophone Concert. Selection from "Barbe-bleue" (Offenbach). The Rose and the Nightingale (Rimsky-Korsakov). Selection from "Barbe-bleue" (Offenbach). The Rose and the Nightingale (Rimsky-Korsakov). Selection (Konguell). Le Cygne (Saint-Saèns). Selection from "La Cocarde de Mimi Pinsón" (Goublier). Potpourri, Hallo! Hallo! Hier Wien! (Morena). Fète du Hameau (Gillet). Finale from Act III of "The Mastersingers" (Wagner). Selection from "Bocaccio" (Suppé). Moment musical (Schubert). La Zamacucca (Ritter). Danses alsaciennes (Levadé). 7.30

Talk: Natural History.

8.0—Orchestral Concert conducted by Arthur Meulemans. Part I. Grieg Programme. Festival March. Morning, Solveig's Song and In the Hall of the Mountain King from "Peer Gynt." Nordische Weisen. Erste Begegnung. 8.45—Talk: International Efforts against Crime. 9.0—Concert. Part II. Overture, "Die Fledermaus" (Johann Strauss). Selection from "La Bohème" (Puccini). Nocturne (Van Nieuwenhove). Dance from "Reynaert de Vos" (De Bocck). Waltz, Lagunenwalzer (Johann Strauss). Seherzo (Lalo). 10.0

—Theatre Notes. 10.10—Dance Music Programme.

BUCHAREST (Romania) Radio-Bucarest. 701 kc/s (394 m.); 12 kW.

Radio-Bucarest. 701 Refs (394 m.); 12 kW.

Transmits at intervals frem 12 noon. 5.0 p.m.—Light Music and Remanian Music by the Motoi Orchestra. 6.0—News and Time Signal. 6.10—Light Music and Romanian Music (comd.). 7.0—Talks on Philosophy and Religion. 7.40—Light Music on Gramophone Records. 8.0—Viennese Music by a Guitar Quartet. 8.30—Talk to be announced). 8.45—Song Recital by M. Niculesco (Bass). 9.5—Dance Music by the "Los Ochios" Tango Orchestra. 9.45—News Bulletin and Close Down.

BUDAPEST (Hungary

BUDAPEST (Hungary)
545 kc/s (550 m.); 18.5 kW.
Transmits at intervals from 9.15 a.m.
Also relayed on 210 metres from
7.0 p.m.—12 midnight.
6.0-p.m.—Pianoforte Recital of Hungarian Folk Melodies.
The Budapest International Fair.
7.0-" The Evolution of the Operetta"VII. Concert by the Opera House
Orchestra, conducted by Bela Nagypal, with Introductory Talk. Selections from "The Mikado" (Sullivan),
"The Bird Fancier" (Zeller), "Der
Obersteiger" (Zeller) and "Der

Schwerenöter" (Ziehrer). 8.30— Talk on Foreign Affairs. 9.0—Chamber Music Programme. Pianoforte Trio in D Minor (Arensky). Pianoforte Trio in B Major (Brahms). 10.0—Cigány Concert from the Flotel Hungaria. 11.0—Dance Music on Gramophone Records.

COPENHAGEN (Denmark) 1,067 kc/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 kc/s

Relayed by Kalundborg, 260 kc/s (1,153 m.).
Transmits at intervals from 7.30 a.m. (Gymnastics).
11.0 a.m.—Weather Forecast. 11.10—Fishing Notes. 11.15—Talk: The Explorer, Marco Polo. 12 noon—Time and Chimes from the Town Hall

-Fishing Notes. 11.15—Talk:
The Explorer, Marco Polo. 12 noon—
Time and Chimes from the Town
Hall.
12.2 p.m.—String Ensemble Concert,
conducted by Max Skalka, relayed
from the Hotel d'Angleterre. 1.15—
Talk with Illustrations: J. P. E.
Hartmann's Opera, "Little Christic."
1.45—30—No Transmission.
3.0—Wind Instrument Concert, conducted by Johannes Andersen.
Soloist: Walter Sabinsky (Violin).
March, Hilsen th vore Venner
(Lumbye). Comedy Overture,
Mariotta (Gade). Madrigal from
"Romeo and Juliet" (Gounod).
Waltz, My Land of Dreams
(Fahrbach). Selection from "The
Bird Fancier" (Zeller). Selections
(Ramsöe): (a) Scherzando, I
Orienten, (b) Pariser Indtogsmarch. Violin Solos: (a) Andante
from the Spanish Symphony
(Lalo), (b) Cradle Song (Ring), (c)
Minuet (Schiöler), (d) Zigeunerweisen (de Sarasate). Jagteventyr
(Schrammel). Overture, "Les
Dragons de Villars" (Maillart).
November from "The Seasons"
(Tchaikovsky). Litanei (Schubert).
Waltz, Die Romantiker (Lanner).
Selection from "Once upon a
Time" (Lange-Müller). March
(Desormes).
5.0—Programme for Children. 5.40
—Exchange and Fish Market Prices.
5.50—Talk: Danish Literature—
Johannes Ewald. 6.20—German
Lesson for Beginners. 6.50—Weather
Forecast. 7.0—News Bulletin. 7.15
—Time Signal. 7.20—Talk. 7.50—
Programme by Per Knutzon. 8.0—
Chimes from the Town Hall.
2.2—"Adventures on a Waking
Tour"—Musical Play in Four Acts
(Hostrup).
10.0—News Bulletin.
10.15—Orchestral Concert of Old
Danish Music, conducted by Emil
Reesen. Soloist: Herman Koppel
(Pianoforte). Symphonic Trio for
Violins, Horns, Cellos and Double
Basses (Bentzon). Concerto, Op.
13 for Pianoforte and Strings
(Koppel). Suite for Orchestra
(Lebel). 11.0 (approx.)—Close
Down.

DUBLIN (Ireland)

(2RN). 725 kc/s (413 m.); 1.2 kW. Relayed by Cork, 1,337 kc/s (224.4 m.). 30-2.0.p.m.—Time Signal, Weather teport, Stock Report and Light Relayed by Cork, 1,337 keys (224.4 m.).
1.30—2.0 p.m.—Time Signal, Weather Report, Stock Report and Light Music on Gramophone Records.
6.0—Popular Music on Gramophone Records.
6.15—Programme for Children. 7.0—Light Music on Gramophone Records.
7.20—News Bulletin. 7.30—Time Signal. 7,31—Talk on Gardening. 7,45—Talk vienna in Spring.
8.0—The Station Sextet. 8.20—Tenor Solos by J. P. Burke. 8.30—Violin and Vocal Recital. 8.50—The Station Sextet. 9.0—Baritone Solos by Mat Dunleavy. 9.15—Variety Music.
9.35—Revue by John MacDonagh and Company. 10.15—The Station Sextet. 10.30—Time Signal, News, Weather Réport and Close Down.

FÉCAMP (France)

FECAMP (France)
Radio Normandie. 1,364 kc/s
(219.9 m.); 10 kW.
12 noon—Concert of Popular Music
on Gramophone Records. 12.30 p.m.
—News Bulletin. 12.45—Concert of
Light Music. 7.30—Radio Announcements. 8.0—News Bulletin.
8.15—Agricultural Talk. 8.30—
Esperanto Lesson. 8.40—Concert
relayed from Le Havre.
11.0—Dance Music and Variety
Items. 1.0 a.m. (Saturday)—Close
Down.

FRANKFURT-am-MAIN

(Germany)

770 ke/s (390 m.); 1.5 kW.
Relayed by Cassel, 1,220 ke/s (246 m.).
Transmits at intervals from 6.0 a.m.
12 noon—Concert of American March
Music. 12.50 p.m.—News and
Weather. 12.55—Nauen Time
Signal. 1.0—See Lungenberg. 2.0—
News Bulletin. 2.10—Sponsored
Concert on Gramophone Records.

3.10—The -Weather Report.

3.0—Weather Report. 3.10—Time and Economic Notes. 5.0—Concert from Munich. 6.15—Economic Notes. 6.25—7.15—See Stuttgart. 7.15—Time, Programme Announcements, Weather and Economic Notes. 7.20—10.20—See Stuttgart. 10.20—Time, Weather, News and Sports Notes. 10.45—Orchestral Concert. Overture, "Don Pasquale" (Donizetti), Aria from "L'elisir d'amore" (Donizetti), Aria from "L'elisir d'amore" (Donizetti), Ballet Music from "Sicilian Vespers" (Verdi), Selection from "A Masked Ball" (Verdi). Selection from "The Force of Destiny" (Verdi), Intermezzo from "L'Amico Fritz" (Mascagni), Aria from "La Tosca" (Puccini), Aria from "La Tosca" (Puccini). Aria from "The Golden West" (Puccini). Two Selections from "Turandot" (Puccini). 12 midnight (approx.)—Close Down.

HAMBURG (Germany)

HAMBURG (Germany)

Norag (ha, in Morse). 806 kc/s (372 m.); 1.5 kW. Relayed by Bremen, 1,112 kc/s (270 m.); Flensburg, 1,373 kc/s (218 m.); Hanover, 530 kc/s (566 m.); and Kiel, 1,292 kc/s (232.2 m.). Transmits at intervals from 5.45 a.m. 5.55 p.m.—Variety Programme. 6.35—Talk for Workers. 6.55—Exchange Quotations and Market Prices. 7.0—Topical Talk. 7.15—Weather Report. 7.20—Eberhard Koenig reads from his own Works. 7.55—"Knight Roland" (Orlando Paladino)—Comic Opera in Three Acts (Haydn), relayed from the Municipal Theatre. 10.0—Time, Weather and News. 10.10—Concert from the Alsterpavillon.

HEILSBERG (Germany)

1,085 kc/s (276.5 m.); 60 kW.
Relayed by Danzig, 662 kc/s
(453.2 m.).
Transmits at intervals from 6.0 a.m.
(Gymnastics and Variety Pro-

gramme).
30 a.m.—Concert from Breslau,

11.30 a.m.—Concert from Breslau.
1.5 p.m.—2.30—Gramophone Concert of Popular Music.
3.30—
Talk for Women. 4.0—Book Review.
4.30—Concert from Breslau.
5.30—
Talk: The Music of the Yellow Races, with Gramophone Illustrations.
6.15—Agricultural Prices.
6.30 (from Danzig)—Talk: The Gold of the East.
7.0—Radio Report from the Gauging Office, Königsberg.
7.30—Walther Francke reads from his own Works.
8.0—Weather Report.

his own Works.
Report.
Report.
8.5—Concert of Opera Music by the
Königsberg Opera House Orchestra conducted by Werner RichterReichhelm. Soloists: Margarethe
Albrecht, Ruth Schöbel, Alfred
Bartolitius, Arno Schellenberg and
Carl Meinl (Vocalists). Overture,
Two Songs and Duet from "Cosi
fan tutte" (Mozart). Overture,
Three Songs and Trio from "Der
Freischütz" (Weber). Prelude to
the Third Act, Song and Prelude Freischütz" (Weber). Prefude to the Third Act, Song and Prefude to the First Act, from "The Mastersingers" (Wagner). 10.15 (approx.)—Weather, News and Sports Notes.

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW.
7.25—10.40 a.m.—Programme of the
Workers' Radio Society (V.A.R.A.).
7.25—7.40 and 8.10—8.25—Gymnastics. 8.40—Gramophone Records
of Verietz Musical Programs workers Radio Society (V.A.R.A.), 7.25—7.40 and 8.10—8.25—Gymnastics. 8.40—Gramophone Records of Variety Music. 10.40—Religious Programme by the Liberal Protestant Radio Society (V.P.R.O.).

(V.P.R.O.).
10.55—12.40 p.m.—V.A.R.A. Programme.
10.55 a.m.—Recitations.
11.10—Septet Concert. 11.40—Recitations.
11.15—Concert (contd.).
12.40 p.m.—4.40—Programme of the Algemeene Vereeniging Radio Omerop (A.V.R.O.).
12.40—Concert by the Little Wireless

2.40—Concert by the Little Wireless Orchestra, conducted by Nico Treep. Overture, "Abu Hassan" (Weber). Selection from "Le roi s'amuse" (Delibes). Waltz, Dorfschwalben aus Oesterreich (Josef Strauss). Gramophone Records of Varietÿ Music. Selection from "Manon Lescaut" (Puccini). Pasacalle (Chueca). L'amoureuse sérénade (Filipucci). Minuet (Bolzon). Gramophone Records of Gramophone Records of Gramophone Records of

serenade (Filipucci). Minuet (Bolzoni). Gramophone Records of Variety Music. Felix, the Cat (Kark). Tarantella (Meyer-Helmund). Selection (Dostal). 2.40—Talk.

10—Concert by the Wireless Chamber Orchestra, conducted by Louis Schmidt. Overture, "Rip van Winkle" (Planquette). Selection from "La Wally" (Catalani). Hindu Song (Rimsky-Korsakov). Love Song (Paderevsky). Waltz, The Flowers (Waldteufel). Sogno

d'amore (Becce). Hearts and Flowers (Czibulka). Carnival (Fourdrain). Gramophone Records of Variety Music. Selection from "Der lustige Krieg." (Johann Strauss). In a Pagoda (Bratton). Intermezzo (Steinke). Draussen in Schönbrunn (Benatzky). March, For the Fatherland (Millöcker). 40–8, 40–V.A.R.A. Programme. 40–0rgan Recital. The Phantom Brigade (Myddleton). Wedding Dance (Linoke). Negro Song (Clutsam). Chinese Street Serenade (Siede). Overture, "Poet and Peasant" (Suppé). Me (Irving Berlin).

Peasant (Suppey)
Berlin).

5.10—Programme for Children.
5.40—Orchestral Concert, conducted by Hugo de Groot. 6.40—Talk for Teetotallers. 6.55—Concert (contd.).
7.25—Talk: The Principles of the Workers' Socialist Party. 7.55—Concert (contd.).
8.40—11.42—V.P.R.O. Programme.
8.40—Religious Address.
9.10—Violin, 'Cello and Pianoforte Recital. Sonata, Op. 1, No. 3
(Buxtehude). The Second Concerto (Rameau). 9.40—Talk on Dante.

(Rameau). 9.40—Talk on Dante 10.10—Recital (contd.). Sonata (Schubert). The Fifth Trio (Mo-(Schubert). zart).

10.42—Religious Notes. 10.45—News
Bulletin. 10.55—Talk: Humour and
Religion. 11.25—Gramophone Re-

V.A.R.A. Programme. 11.40 p.m.— Organ Recital. 12.10 a.m. (Saturday)— Gramophone Records of Variety Mūsic. 12.40 (approx.)—Close Down.

HUIZEN (Holland)

160 kc s (1,875 m.); 8.5 kW.
Programme of the Catholic Radio
Society (K.R.O.).
8.40—0.55. a.m.—Gramophone Re-

Society (K.R.O.).

8.40—0.55, a.m.—Gramophone Records of Light Music. 10.40—Gramophone Records of Popular Music. 12.10 p.m.—Programme for Invalids. 12.40—Quantet Concert. In Budapest (Plessow). Spring Song (Mendelssohn). Waltz, Plue d'or (Waldteufel). Goodnight, Sweetheart (Noble). Selection from "Les Saltimbanques" (Ganne). Waltz, Frühlingsboten (Eberle). Selection from "La Tosca" (Puccini). Espoir perdu (Snoeck). Waltz, Weaner Mad'ln (Ziehrer). Sprich nicht von ewiger Liebe (Granichstaedten). Finale.

2.25—3.10—Gramophone Records of Light Music. 3.40—"Cavalleria Rusticana"—Opera (Mascagni), and

staedten). Finale.
2.25—3.10—Gramophone Records
of Light Music. 3.40—"Cavalleria
Rusticana"—Opera (Mascagni), and
"I Pagliace"—Opera (Leoncavallo) by the Soloists, Choir and
Orchestra of the Scala, Milan, on
Gramophone Records. 5.40—Talk
on Music.
6.10—Cavaert. Polish Dance (Schar-

on Music.

on Music.

on Music.

to Concert. Polish Dance (Scharwenka). Dance of the Dervishes (Bendix). Selections from "Hamlet" (Thomas): (a) Pantomine, (b) Valse Mazurka. Suppé Potpourri (Urbach). March of the Dwarfs (Grieg). A Godard Cycle (Urbach). Rustle of Spring (Sinding). Selection from "William Tell" (Rossini-Rhode). Femina (Lander). Overture to a Musical Pfay (Lincke). Babillage (Gillet). 7.50—Talk.

Finale.
7.50—Talk. 8.10—Police Notes.
8.25—Gramophone Records of Popular Music. 8.40—Orchestral Concert. Soloist: Macario Kastner (Harpsichord). In the interval at 9.55—News. 11.40—Gramophone Records of Light Music. 12.40 a.m. (Saturday)—Close Down.

KALUNDBORG (Denmark) Kalundborg Radio. (1,153 m.); 7.5 kW. ee Copenhagen.

KATOWICE (Poland)
734 kc/s (408 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
5.35 p.m.—Orchestral Concert. Solo-Transmiss at mervas from 11,50 at., 5.35 p.m.—Orchestral Concert. Solo-ists: Edmond Gizeyevsky and Anda Kitschmann. 6.10—Concert of Light Music. 8.15—See Warsaw. 11.0—Answers to Correspondence in rench

LAHTI (Finland)

167 kc/s (1,796 m.); 54 kW. Relayed by Helsinki, 815 kc/s (368.1

m.).
Transmits at intervals from 7.10 a.m.
7.0 p.m. (from Helsinki)—Orchestrad
Concert. Soloist: Eero Selin (Viola
d'amore). Selection from "Castor
et Pollux" (Rameau). Compositions of the Eighteenth Century: (a) Minuet (Gossec), (b) Air
(de la Borde), (c) Minuet (Milandre). Adagio grazioso, Allemande
and Tambourin (Borghi). O
Mensch bewein dein' Sünde gross
(Bach-Reger). Overture, "Il
Seraglio" (Mozart).
8.0—Reading. 8.25 (from Helsinki)

FRIDAY continued

—Gramophone Records of Variety Music. 8.45—News in Finnish and Swedish.

LANGENBERG (Germany)

LANGENBERG (Germany)
Westdeutscher Rundfunk. 635
kc/s (473 m.); 60 kW.
Transmits at intervals from 6.45 a.m.
12 noon—Concert from Frankfurt.
12.50 p.m.—Weather, News and

2.50 p.m.—Weather, News and Pilme Signal.
...—Orchestral Concert, conducted by Kühn. Soloists: Hartung and Budinger (Horns). Overture, "Don Pasquale" (Donizetti). Reminiscences of Verdi's "Aïda" (Weninger). Alsatian Scenes (Massenet). Waltz, Im Frühling (Knoblauch). Andante for Two Horns and Orchestra (Goepfert). Concert Polonaise for Two Horns and Orchestra (Rosa). Offenbachiana (Conradi). Seenes from "La Boheme" (Puccini). March and Waltz from "The Golden Cross" (Brüll).
.30—Sponsored Gramophone Concert, 3.30—Economic Notes and Ime Signal. 3.50—Handwork for hildren. 4.20—Programme for Young People.
.0—Orchestral Concert, conducted by Wolf Orchestrae Handeling Hall

Children. 4.20—Programme for Young People.
5.0—Orchestral Concert, conducted by Wolf. Overture, "Hans Heiling" (Marschner). Suite from "L'Arlésienne" (Bizet). Czardas (Dauber). Selection from "Prince Methusaleh" (Johann Strauss). Military Burlesque (Clemus). Miniatures (Cui). Waltz, The Good Old Times (Josef Strauss).
6.15—Book Review: European Novels. 6.40—English Conversation.
7.0—Weather, Time, Economic Notes and Sports Results. 7.15—Topical Talk. 7.30—Legal Talk. 7.55—First News Bulletin. 8.0—Concert from Leipzig.

irst News Bulletin. 8.—Concert from Leipzig.
...—Orchestral Concert, conducted by Eysoldt. Overture, "Lurline" (Wallace): Suite, For my little Friends (Pierné). Paraphrase on "La Paloma" (Weninger). Interlude: Choral Selections. Waltz, Estudiantina (Waldteufel). Selections from "Die Blume von Hawai" (Abraham). After the concert—News and Sports Notes. 10.45—Concert from Frankfurt. 12 midnight (approx.)—Close Down

LEIPZIG (Germany)

LEIPZIG (Germany)

1,157 kc/s (259 m.); 2 kW. Relayed by Dresden, 941 kc/s (319 m.).

Transmits at intervals from 6.0 a.m. 6.0 p.m.—Talk: The Music Critic of To-day. 6.25—English Lesson. 6.50—Talk (to be announced). 7.5—Talk: Can we improve on Unemployment Insurance? 7.35—Pianoforte Recital by Walter Bohle.

8.0—Concert by the Leipzig Symphony Orchestra, conducted by Theedor Blumer. Soloists: Else Kochhann (Soprano) and Fritz Wolf (Tenor). Overture, "Das Spitzentuch der Königin" (Johann Strauss). Czardas and Duet from "Die Fledermaus" (Johann Strauss). Dream Waltzfrom "Der Feldprediger" (Millöcker). Song and Duet from "Der Bettelstudent" (Millöcker). Selection from "Die schöne Galathee" (Suppé). Two Songs and Duet from "Beccaccio" (Suppé). Overture, "Die Landstreicher" (Ziehrer). Song from "Der Obersteiger (Zeller). Song and Duet from "The Gipsy Baron" (Johann Strauss). Fatinitza March from "Fatinitza" (Suppé). 30—Economic Notes. 9.40—Wolf Beneckendorff reads Lyrics and Ballads by Goethe. 10.20—News. Bulletin, followed by Silent Night.

LJUBLJANA (Yugoslavia)

522 kc/s (574.7 m.); 2.5 kW. Transmits at intervals from 11.30 a.m. 6.0 p.m.—Quintet Concert. 7.0—French Lesson. 7.30—Programme for Women. 8.0—Lesson for Sokols. 8.30—See Belgrade. 10.30—Time, News and Close Down.

LWÓW (Poland)
788 ke/s (381 m.); 16 kW.
Transmits at intervals from 11.45 a.m.
6.50 p.m.—Miscellaneous Items.
7.15—Talk: Two Days at Harbin.
7.30—See Warsaw. 7.35—Light
Music on Gramophone Records.
7.45—See Warsaw. 12 midnight
(approx.)—Close Down.

LYONS (France)

La Doua (PTT). 644 kc/s (465.8 m.); 1.5 kW.

Transmits at intervals from 8.0 a.m.
7.0 p.m.—Popular Music on Gramophone Records. 7.30—Radio Gazette for Lyons and the South-East. 8.30
—Sponsored Literary Programme.

MADRID (Spain)
Union Radio (EAJ7). 707 kc/s
(424-3 m.); 2 kW.
Transmits at intervals from 9.0 a.m.
8.0 p.m.—Chimes, Exchange, Market

Transmits at intervals from 9.0 a.m. 8.0 p.m.—Chimes, Exchange, Market Prices and Request Gramophone Concert. In the interval at 8.30—Educational Talk. 9.15—News Bulletin. 9.30—10.30—Interval. 10.30—Chimes, Time Signal and Symphony Concert on Gramophone Records. Overture, "Egmont" (Beethoven). Serenade, Eine kleine Nachtmusik (Mozart). Third Symphony (Mendelssohn). Symphony of Psalms (Stravinsky). Navarra (Albéniz). 12.45 a.m. (Saturday)—News Bulletin and Programme Announcements for

and Programme Announcements for Listeners Abroad. 1.0—Chimes and Close Down.

MILAN (Italy)
Ente Italiano Audizioni Radio-foniche. 905 kc/s (331.5 m.);
7 kW.

MORAVSKÁ-OSTRAVA

(Czechoslovakia)

1,137 kc/s (263.8 m.); 11 kW.
Transmits at intervals from 10.30 a.m.
7.0 p.m.—See Prague. 10.15—Programme Announcements and Theatre Guide. 10.20—See Prague.

MOSCOW (Russia)

Trades Union. 230.1 kc/s (1,304 m.); 100 kW. cansmits at intervals from 5.0 a.m. 30 p.m.—Proletariat Radio Journal.

6.30 p.m.—roletariat radio journal, 7.15—Programme for Komsomols, 8.0—Talk in French: The Tactics of the Bolsheviks during the Imperialist War. 9.55—Time Signal, 10.0—Weather Forecast. 11.0 (approx.)—Close Down.

MUNICH (Germany)

MUNICH (Germany)

503 kc/s (533 m.); 1.5 kW. Relayed by Augsburg and KaisersNainberg, 1,256 kc/s (560 m.) and
Nainberg, 1,256 kc/s (239 m.).

Transmits at intervals from 6.45 a.m.
5.0 p.m.—Orchestral Concert. 6.15—
Time, Weather and Agricultural
Notes. 6.25—Talk: Germany and
European Industry. 6.45—Talk:
Two Industrial Crises in the Nineteenth-Century—I. The Crisis of
1857. 7.5—Talk: The van Gogh
Trial.
7.30—"Der Büchsenfranz!"—a
Four-Act Play, picturing Life in the

7.30—"Der Büchsenfranz!"—a Four-Act Play, picturing Life in the Bavarian Mountains (Peter Auzinger). 9.0—Concert on Electrical Instruments—The Trautonium and the Neo-Bechstein Piano, relayed from the Old Town Hall. Speeches by the Inventors, Dr. Trautwein and Dr. Nernst.

.25—Gramophone Cabaret. 10.20
—Time, Weather and News.

OSLO (Norway)

Kringkastingselskapet, 277 kc/s (1,083 m.); 60 kW. Relayed by Fredriksstad, 816 kc/s (367.6 m.); Hannar, 536 kc/s (550 m.); Notodden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (453.2 m.); and Rjukan, 671 kc/s (447.1 m.).

Transmits at intervals from 10.0 a.m. 5.0 p.m.—Light Music on Gramophone Records. 5.30—Talk on Education. 6.0—French Lesson.

Transmits at intervals from 10.0 a.m. 5.0 p.m.—Light Music on Gramophone Records. 5.30—Talk on Education. 6.0—French Lesson. 6.30—Pianoforte Recital by Anton Meyer, relayed from Stavanger, 1,247 ke/s (24.06 m.). 7.0—Announcements, News and Weather Forecast. 7.30—English Lesson. 8.0—Time Signal.
8.2—Concert by the Station Orchestra conducted by Hugo Kramm. Soloist: Johann Simonsen (Violin). Overture, "Ruslan and Ludmilla" (Glinka). Concerto in A. Minor for Violin and Orchestra (Glazounov). Elegy (Rachmaninov). Persian Dance (Moussorgsky). Une larme (Moussorgsky). Selection from "The Snow Maiden" (Rimsky-Korsakov). Overture, 1812 (Tchaikovsky). 9.0—Arnulf Overland reads from his own Works. 9.40—Weather and News Bulletin. 10.0—Topical Talk. 10.15—Talk: Great Actors and the Romance of the Theatre. 10.45 (approx.)—Close Down.

PALERMO (Italy)

Ente Italiano Audizioni Radiofoniche, 554 ke/s (542 m.); 3 kW.
Transmits at intervals from 12.45 p.m.
5,30—6,30 p.m.—Light Music and
Dance Music relayed from the
Olympia Tea-Room. 8.0—Agricultural Notes, Report of the Royal
Geographical Society and Giornale
Radio. 8.20—Popular Music on
Gramophone Records. 8.30—Time
Signal and News Bulletin.
8.50—Concert of Variety Music.
Soloists: Livia Giacchino (Piano-

fortc) and Sistina Lojancono (Violin). Selection from "The Italian
Girl in Algiers" (Rossini). Two
Pianoforte Solos: (a) Berecuse
(Sgambati), (b) Russian Dance
(Napravnik). Talk on Werther.
Two Violin Solos: (a) Un poco
triste (Suk), (b) Burlesque (Suk).
Sonata in C Minor for Violin and
Pianoforte (Beethoven). Ballet
Music from "Rosamunde" (Schubert). After the Concert, Dance
Music on Gramophone Records.
10-55—News and Close Down.

PARIS (France)

Eiffel Tower (FLE). 207.5 kc/s (1,445.7 m.); 13 kW. Time signals (on 2,650 m.) at 10.26 a.m. and 11.26 p.m. (preliminary and 6-dot signals).

Transmits at intervals from 1.0 p.m. 6.45 p.m.—Talk on the Theatre. 7.0—Le Journal Parlé. 8.20—Weather Forecast. 8.30—Variety Programme ": "Baby takes Medicine"
—Comedy in One Act (Mme du Pontavice). Gaby Triquet in a Programme of his own Songs. 9.0—Haydin Symphony Concert, conducted by Edouard Flament. Soloists: E. Flament (Pianoforte), M. Marchesini ('Cello) and René Bas (Violin). The Surprise Symphony (Haydn-Winter). Sonata No. 7 for Pianoforte, Andante from the Concerto for 'Cello. Sercnade for Violin (Haydn-Woodhouse). 10.0 (approx.)—Close Down.

PARIS (France)

Poste Parisien. 914 kc/s (328.2 m.); 1.2 kW.

Transmits at intervals from 12 ncon.

Transmits at intervals from 12 ncon. 6.45 p.m.—News and Announcements. 7.0—Gramophone Records, Talk and News.
7.30—Concert of Dance Music by the Station Jazz Band, with the collaboration of Miss Mabel Mercer. Rhymes (Sarony). All of me (Simons). Makin' faces at the Man in the Moon (Hofmann). The Waltz you saved for me (Wayne King). I don't know why (Alhert). A faded Summer Love (Baxter). You forgot your Gloves (Lehak). Why dance? (Alhert). Sweet and Lovely (Tobias). By the Sycamore Tree (Wendling). Rumba, Siboney (Lecuona). Romany Rose (Wayne). Guilty (Kahn-Whiting).

Rose (Wayne). Guilty (Kaln-Whiting).
8.30—Gramophone Records, Talk and News. 8.45—Concert of French Songs by Music Hall Artistes. 10145—News Bulletin. 10.50 (approx.)—Close Down.

PARIS (France)

PARIS (France)
Radio-Paris (CFR). 174 kc/s (1,725 m.); 75 kW.
6.45 a.m.—Physical Culture Lesson.
7.30—Weather and Physical Culture (continued). 7.45—Gramophone Records: Till Eulenspiegel's Merry Pranks (Richard Strauss). 8.0—News, Weather and Press Review. 12 noon—Jewish Programme: Reading and Musical Items.
12.30 p.m.—Gramophone Concert.
"The Heroic in Music." In the intervals at 1.0—Exchange, News and Weather, at 1.30—Exchange and at 2.0—Exchange and Announcements.

at 2.0—Exchange and Announcements.

2.45—Exchange and Market Prices.

4.45—Illustrated Talk on the History of Music by Paul Landormy:

César Franck and his School.

Soloists: Blanche Selva (Pianoforte) and M. Massia (Violin).

Finale from the Sonata for Pianoforte and Violin (Franck). Wallenstein's Camp (d'Indy).

6.30—Market Prices, Weather, Agricultural Report and Racing Results.

7.0—Talk on the French Colonies: The Oases of Tunisia. 7.25—Literary Readings: Fantastic Tales. 7.45—Commercial Prices and News.

3.0—Concert. "Fantst in the Music of Different Composers." The Station Orchestra, conducted by Eugène Bigot. Soloists: Mme. Martinelli, Georges Jouatte, and M. Lovano (Vocalists). Eine Faust Ouvertüre (Wagner). Selections from "Faust" (Schumann). 8.30—News and Weather. 8.40—Gastronomic Review. 8.45—Concert (continued). Three Songs from "Faust" (Gounod): (a) Cavatina; (b) Song of the King of 8.40—Gastronomic Review. 8.45—Concert (continued). Three Songs from "Faust" (Gounod): (a) Cavatina; (b) Song of the King of Thule, (c) Mephisto's Serenade. Two Songs from "The Damnation of Faust" (Berlioz). 9.15—Press Review and Time Signal. 9.30—Concert (continued). Two Songs from "Mephistopheles" (Boito). A Faust Symphony (Liszt).

POZNAŃ (Poland) 7.896 kc/s (335 m.); 1.9 kW. Transmits at intervals from 11.45 a.m. 7.30 p.m.—Light Music on Gramophone Records. 7.45—10.45—See



MEASURE IT UP

100 metres-40 stations how can you separate them!

In the wave band three to four hundred metres, 40 stations transmitting, overlapping the nine Kilocycles separation, hopelessly overcrowded. Circuit design has gone a long way, but at present complete separation is impossible. How important then, are your valves. How essential that they should be Mullard: Mullard with their steady power, their absolutely up-to-date design, their sensitivity. Mullard, with their non-microphonic rigid-unit construction, making the utmost of every available signal, simplifying the task of station separation.

Mullard Prices now Reduced.

2-volf valves	- x	n		.0	from	7/-
A.C. Mains valves		, 0	- e		from	13/6
Rectifying valves					from	12/6

THE - MASTER - VALVE MADE IN ENGLAND

Advt. The Mullard Wireless Service Co., Ltd., Mullard House, Charing Cross Road, London, W.C.2.

ARKS

Warsaw. 10.45—Topical Talk.
11.0—Sports Notes and Police Report. 11.10—Dance Music on Gramophone Records. 12 midnight (approx.)—Close Down.

PRAGUE (Czechoslovakia)

614 kc/s (488.6 m.); 120 kW.
Transmits at intervals from 11.0 a.m.
4.0 p.m.—Programme for Women, relayed from Brno. 4.55—Talk.
5.10—Dance Music from Bratislava.
6.0—Variety Music on Gramophone Records. 6.5—Agricultural Report 6.15—Talk: The Workman and his Leisure Hours. 6.25—German Transmission: News and Talk. 5.10—Dance Nusic Troll Brassaca.
6.0—Variety Music on Gramophone
Records. 6.5—Agricultural Report
6.15—Talk: The Workman and his
Leisure Hours. 6.25—German
Transmission: News and Talk.
7.0—Announcements. 7.5—Talk on
Hygiene. 7.20—Dramatic Programme. 8.55—News Bulletin.
9.0—Time and News. 9.15—Concert by the Smetana Choir, conducted
by Professor Spilka. 10.0—Time and
News. 10.15—Announcements. 10.20
—Popular Gramophone Music.

RADIO-SUISSE ROMANDE (SOTTENS) (Switzerland)

743 kc/s (403 m.); 25 kW.; Lausanne, 442 kc/s (680 m.); and Geneva, 305 kc/s (760 m.). 12.30 p.m.— Time Signal from Neuchâtel Observatory. 12.32—Weather Forecast and News Bulletin. 12.40 (from Geneva)—Light Music on Gramophone Records. 1.0—Exchange Quotations and Market Prices. 1.5—Gramophone Concert (contd.). 2.0—4.30—Interval. 4.30—Time Signal from Neuchâtel Observatory.

Time Signal from Neuchatel Observatory.

4.31—Orchestral Concert. 5.30 (from Geneva)—Programme for Women.
6.0 (from Geneva)—Popular Concert on Gramophone Records. 6.30 (from Lausanne)—Talk (to be announced). 7.0—Weather Forecast.
7.1 (from Lausanne)—Light Music on Gramophone Records. 7.30 (from Lausanne)—Dramatic Criticism. 7.55—Announcements. 8.0 (from Geneva)—Talk: The Work of the Disarmament Conference. 8.10 (from Geneva)—Talk: Window-Boxes. 8.30 (from Lausanne)—Baritone Song Recital by Romano Rasponi.

Rasponi.
9.0 (from Lausanne)—Concert by the Liege Trio. 10.0—Weather Fore-Liège Trio. 10.0—Weath cast and News Bulletin. (approx.)—Close Down.

RIGA (Latvia)

772 kc/s (525 m.); 15 kW.
Transmits at intervals from 7.0 a.m.
6.0 p.m. French Lesson. 6.30—
Latvian Lesson. 7.0—Weather

Report.
7.5—Orchestral Concert, conducted 7.5.—Orchestral Concert, conducted by Medins. Symphony in G Minor (Kalinnikov). Concerto for Horn (Richard Strauss). Waltz from "Der Rosenkavalier" (Richard Strauss). Overture, "Oberon" (Weber). In the intervals at 8.0—News and at 9.0—Weather and News. 9.35—Light Music. 10.30 (approx.)—Close Down.

ROME (Italy)

Ente Italiano Audizioni Radiofoniche (1RO). 680 kc/s (441
m.); 50 kW. Relayed by Naples,
941 kc/s (319 m.); and 2RO,
11,810 kc/s (25.4 m.).
Transmits at intervals from 8.15 a.m.
12 noon—Gramophone Records of
Variety Music. 12.35 p.m.—Weather
Forecast.

12 noon—oramopnone records of Variety Music. 12.35 p.m.—Weather Forecast.

12.45—2.0—Vocal and Instrumental Concert. The Radio Sextet, Ugo Vismara (Baritone) and Mary Sardo (Violin). Baritone Solos: (a) Two English Songs (Wayne and Ager), (b) La camparisita (Rodriguez). Violin Solos: (a) Serenata spagnola (Carnevali-Corti), (b) Canzonetta (d'Ambrosio), (c) Moto perpetuo (De Guarnieri). Suite idiliaca (Montanaro). Arietta all'antica (Brogi). Waltz, Tramonto (De Feo). Selection from "Fedora" (Giordano). Tango, Canta gitana (Carsel). In the intervals: Giornale Radio, Exchange, Time and Announcements.

4.45 (from Naples)—Talk for Women. 5.0—Exchange, Children's Radio Journal and Announcements.

5.30—Song Recital by Vittoria Colona Marcocchia (Soprano). The Lotus Flower (Schumann). Le violette (Scarlatti). Die Forelle (Schubert). Scherzo (Respighi). 5.45—Variety Concert. Selection from "The Blue Mazurka" (Lchár). Song (Loewe). Coty (Ricciardi).

from The Blue Mazurka" (Lehar).
Song (Loewe). Coty (Ricciardi).
Giacinto (Mascheroni). Intermezzo, Burlesca (Culotta). Sclection (Brodzky).
6.15—Giornale dell'Enit.
(from Naples)—Shipping and Sports
Notes.
7.0—Agricultural Notes,

Weather, Announcements, Giornale Radio and Press Review. 7.50—Gramophone Records of Variety Music. 8.0—Time and Announcements. 8.5—Report of the Royal Institute of Agriculture (in French, Italian, English, German and Spanish). 8.30—Sports Notes and Announcements.

.30—Sports Notes and Announcenents.
.45—Concert by the Rome Quartet.
Part I—Chamber Music. Quartet
in E Major (Paganini). Three
Arias for Soprano (Pasquini):
(a) Filli, Filli, (b) Giran pure in
ciel le sfere, (c) Erminia in riva del
Giordano (with Violin obbligato).
Two Selections (Glazounov): (a)
Intermezzo, (b) Une fête slave.
Part II. "Peccato"—Comedy
(Oreste Poggio). Part III. 'Cello
Solos: (a) Pavane (Ravel), (b)
Scherzo (Dohnanyi), (c) Concert
Polonaise (Dohnanyi). Coronation March from "The Prophet"
(Meyerbeer). Selections from
"The Huguenots" (Meyerbeer).
Tarantella, La danza (Rossini).
10.55—News Bulletin.

SCHENECTADY (U.S.A.)

SCHENECTADY (U.S.A.)

General Electric Company (WGY).
790 kc/s (379.5 m.); 50 kW.
Relayed at intervals by W2XAF
on 9.530 kc/s (31.48 m.) and by
W2XAD on 15.340 kc/s (19.56 m.).
Transmits at intervals from 11.45 a.m.
8.30 p.m.—Women's Radio Review
from New York.
9.0—Decorating
Notes from New York.
9.15—Old
Time Tunester.
9.20—Musical Ad
Men.
9.55—News Items.
10.5—Stock Reports and Police Notices.
10.15—"Skippy" from New York.
10.30—New York State Department
Talk.
10.45—The Songsters, from
New York.
11.00—DeWitt Clinton
Orchestra.
11.30—With Gray
McClintock in the Canadian Northwest.
11.45—Silver Streaks.
12 midnight (W9Y only)—General
Electric Programme.
12 midnight
(W2XAF only)—Stock Reports and
News Items.
12.15 a.m. (Saturday)
New Kenmore Orchestra.
12.30—
1.30—New York Relay.
12.30—
Prince Albert Quarter Hour.
12.45—
Trials of the Goldberrs.
1.0 (WGY) New Kenmore Orchestra. 12.30—
1.30—New York Relay. 12.30—
Prince Albert Quarter Hour. 12.45—
Trials of the Goldbergs. 1.0 (WGY only)—Cities Service Programme. 1.30—WGY Agricultural Programme. 2.0—Clicquot Club Eskimos from New York. 2.30—Pond's Programme from New York. 3.30—RKO Programme from New York. 3.0—RKO Programme from New York. 4.0—Freddy Engel's Orchestra. 4.30—Jack Pettis' Orchestra. 5.0—Hotel New Yorker Orchestra. 5.0—Hotel New York. 5.30—New Kenmore Orchestra. 6.0 (approx.)—Close Down.

SCHWEIZERISCHER LANDESSENDER (BERO-

LANDESSENDER (BERO-MÜNSTER) (Switzerland)
653 kc/s (459 m.); 60 kW.; Basle,
1,220 kc/s (244.1 m.); and Berne,
1,220 kc/s (246 m.).
12.58 p.m.—Time Signal from the
Neuchâtel Observatory.
12.30—Weather Forecast and News Bulletin.
12.40—Concert by the Station Orchestra.
1.35—Weather Forecast
and Exchange Quotations.
1.45—3.30
—Interval.
3.30—Concert by the Station Orchestra.
4.0—Popular Music on Gramophone Records.
5.0 (from Berne)—
Talk for Women.
5.30—Weather
Forecast and Market Prices.
5.45—
6.30—Interval.

Forecast and Market Prices. 5.45—6.30—Concerto for Violin in G Minor (Max Bruch) by Yehudi Menuhin, on Gramophone Records. 7.0 (from Basle)—Elementary Italian Lesson. 7.20—Sports Notes. 7.28—Time Signal and Weather Forecast. 7.30 (from Basle)—Talk: The Work of Ivar Kreuger.

8.0 (from Berne)—Variety Programme by the Bernese Yodelling Club and the Heimberg Peasant Orchestra. 8.45—"Knörri und Wunderli"—Play in Dialect in Three Acts (von Greyerz). 10.0—Weather Forecast, News, Tourist Report and Close'Down.

STOCKHOLM (Sweden)
Radiotjänst (SASA). 689 kc/s
(436 m.); 55 kW. Relayed by
Boden, 244 kc/s (1,220.5 m.);
Güleborg, 932 kc/s (322 m.);
Hörby, 1,166 kc/s (257 m.);
Motala, 222.5 kc/s (1,348 m.);
Ostersund, 389 kc/s (770 m.) and
Sundsvall, 554 kc/s (542 m.).
Transmits at intervals from 7.20 a.m.
(Gymnastics and Service).
5.0 p.m.—Chamber Music. Serenade
for Violin, Viola, Cello and Pianoforte (Frank Bridge). Six Intimate
Ballads (Bratt). Old Irish Air for
Violin, 'Cello and Pianoforte
(Kreisler). Waltz No. 1 for Two

FRIDAY continued

Violins, 'Cello and Pianoforte (Cyril Scott), Songs (Tegner). Andante tempo rubato from the Suite Op. 36, for Two Violins and Pianoforte (Alnes), Two Poems by Richard Dehmel (Prohaska).

6.0—Gramophone Records of Light Music. 6.55—Agricultural Talk.

7.15—Weather and News. 7.30—Talk: The History of the Great Modern Political Powers.

8.0—Pianoforte Quartet in E Flat Major, Op. 47, for Violin, Viola, 'Cello and Pianoforte (Schumann).

8.30—Songs and Lyrics. 9.15—Talk on Social Problems. 9.45—Weather and News.

10.0—Orchestral Concert. Overture, "Poet and Peasant" (Suppé). Waltz, Moonlight on the Alster (Fetras). Serenade, Ay, Ay, Ay (Freire). Selection from "Masaniello" (Auber). Waltz, May Night (Orth). Potpourri, Gamla lätar (Anderšson). 11.0 (approx.)—Close Down.

(Andersson). Close Down.

STRASBOURG (France)

Radio-Strasbourg (PTT). 869
kc/s (345 m.); 11.5 kW.
9.30—9.45 a.m.—Tourist Report
from Cordes. 11.30—Gramophone
Concert. Selection from "Il Trovatore" (Verdi). Berceuse (Renard).
Madrigal (Simonetti). Prière à la
Chapelle (Strelezki). Chanson (Frim).
Mes joies (Liszt). Valse caprice
No. 2 (Philipp). Crépuscule (Maiotte).
Quadrille from "La Vie Parisienne" (Offenbach). Selections
(Kouguell): (a) Préhude oriental, (b)
Danse kurde. Selection from "Le
Grand Mogol" (Audran). Berceuse
(Andolf). Humoresque (Barns).
12.45 p.m.—News in French and
German. 1.0—Time Signal.
1.2—Gramophane Concert. A Spanish
Beggar (Orth). Serenade (Heykens). Samt und Seide (Ziehrer).
Tales from the Vienna Woods
(Joh. Strauss). Selections (Hollaender): (a) Head over cars in
love, (b) Lola. Tonischka (Pollet).
Valse d'amour (Heymann). Lui et
moi (Barmouin). Selections (Helton) (Barmouin). Selections (Heymann): (a) Quand je danse avec
toi, (b) C'est suffisant pour des
amants. In the interval at 1.15—
Tourist Report from Villefranchede-Rouergue.
4.45—Literary Talk in French:

Tourist Report from Villefranchede-Rouergue.

4.45—Literary Talk in French:
Mickiewicz at the Collège de France.
5.0—Orchestral Concert.
March,
Peace and Liberty (Darf). Overture, "Lysistrata" (Lincke). Waltz,
Violets (Waldteufel). Der Rosenhochzeitszug (Jessel). Selection
from "Les Cloches de Corneville" (Planquette). Romance for
Violin (Schneiders). Rose mousse
(Bosc). Petite Suite (Kalkman).
March, Jugend voran (Translateur).

March, Jugend voran (Translateur).

6.0—Topical Talk in German. 6.15—Legal Talk in German.

6.30—Orchestral Concert. Overture, King Stephen (Beethoven). Les petits riens (Mozari). Selection from "Der Freischütz" (Weber). Selections from "Philémon et Baucis" (Gounod). Ballet Music from "Le Cid" (Massenet).

7.30—Time Signal. 7.32—News in French and German.

7.45—Orchestral Concert (continued). Suite, Gitaneries (Razigade). Hungarian Comedy Overture (Keler-Béla). Waltz, Lotus Flowers (Ohlsen). Selection from "Pas sur la bouche" (Yvain). March, The Gladiator's Farewell (Blankenburg).

enburg).
8.30—Tourist Report from Cahors.
8.45—Provincial Programme relayed from Cahors. from 10,30-

from Cahors.

10.30—Symphony Concert, conducted by Tornasi, relayed from Paris.

11.30 (approx.) Close Down.

STUTTGART (MUHL-ACKER) (Germany)

ACKER) (Germany)
Süddeutscher Rundfunk. 832 kc/s (360.5 m.); 60 kW. Relayed by Freiburg, 527 kc/s (570 m.).
Transmits at intervals from 6.0 a.m. (Time, Weather and Gymnastics).
10.0 a.m.—Recital of Folk Songs. Hoffnung (Reinhardt). Evensong (Russian) (arranged Dessoir and Hinze-Reinhold). Evening Peace (Danish) (Andersen). Mädele guck raus (Matthäus Koch). O lieb so lang du lieben kannst (Matthäus Koch). Wingaladle—Melody (Karl Oszwald).
10.30—Talk for Schnols: The History of the Swabian People.
11.0—News, Time and Weather.
11.15—Sponsored Programme 11.30
—Sponsored Programme for Housewives. 11.45—Sponsored Gramo-

phone Records. 12 noon—See Frankfurt. 12.50 p.m.—Tim News,
Programme Announcements and
Weather. 1.0—See Langenberg.
1.55—News Bulletin. 2.0—Sponsored Gramophone Records. 2.30—
—4dvanced English Lesson. 4.30—
Talk: A Tour through the Arctic
Museum at Tromso.
5.0—Concert fron. Munich. 6.15—
Time and Agricultural Notes. 6.25—
Talk on Astrology. 6.50—Medical
Talk. 7.15—Time, Weather, and
Announcements in Esperanto. 7.20—
Recital of Folk Songs and Student
Songs.

Songs.

8.0 (from Karlsruhe)—Concert by the Karlsruhe Philharmonic Orchestra, conducted by Kurt Guhr. Selections from "Romeo and Juliet" (Gounod). Dance from enestra, conducted by Kurt Guhr.
Selections from
Juliet" (Gounod). Dance from
"Nurmahal" (Spontini). Czardas
No. 1 (Michiels). Greek Pirates
March (Alvar). Andreas Hofers
Tod (Popp).
O—Two Short Stories (Trude
rolf).

o—Two Short Stories (Trude of);
old).
20—Cembalo Recital. Selection from "Water Music" (Händel).
Concerto for Three Cembali in C Major (Bach). Concerto for Four Cembali in A Minor (Bach-Visualal).

10.20—News, Time, Programme Announcements, Weather and Sports Notes. 10.45—See Frankfurt. 12 midnight (approx.)—Close Down.

TOULOUSE (France)

Radiophonic du Midi. 779 kc/s (385 m.); 8 kW.

Transmits at intervals from 12.45 p.m. 5.0 p.m.—Transmission of Pictures. 5.15—Military Music. 5.30—News Bulletin. 5.45—Overture, Fingal's Cave (Mendelssohn). 6.0—Songs from (a) 'I Fagliacci'' (Leoncavallo), (b) 'La Tosca'' (Puccini), (c) 'Louise'' (Charpentier), (d) 'Mignon'' (Thomas). 6.15—Accordion Solos. 6.30—News and Exchange. 6.45—Orchestral Selections from 'Lakmé'' (Delibes): (a) Overture, (b) Entr'acte from the Second Act, (c) Ballet Music. 7.0—Concert. The Canary (Spoliansky). Humoresque (Dvorák). Minuet (Schubert). Quartet (Haydn). Wiener Bürger (Zichrer). Selection from 'Vienness Nights' (Romberg). Selection from 'The Love Parade' (Schertzinger). 7.30—News Bulletin. 7.45—Light Music. 8.15—Songs from 'Manon' (Massenet). 8.30—English Lesson. 8.35 (approx.)—Military Music. Overture, ("Der Freischütz" (Weber). Variations on a Swiss Melody (Moler). Invitation to the Waltz (Weber). 9.0—Concert from the Café des Americains. 10.40—News Bulletin. 10.45—Orchestral Selections from 'Petroushka'' (Stravinsky).

11.0—Organ Recital. La Paloma (Yradier). O sole mio (Di Capua). Bells across the Meadows (Ketelbey). Bird Songs at Eventide (Coates).

11.15—North African News. 11.30—Songs from 'Pelléas et Mélisande''

(Coates). 11.15—North African News. 11.30— Songs from "Pelléas et Mélisande" (Debussy). 12 midnight—Weather, Announcements and Close Down.

TRIESTE (Italy)

TRIESTE (Italy)

Ente Italiano Audizioni Radiofoniche. 1,211 kc/s (247.7 m.);
10 kW.
Transmits at intervals from 8.15 a.m.
7.10 p.m.—Quintet Concert. Saba
(Stajano). Selection from "Where
the Lark sings" (Lehâr). October
Legend (Vallini). Johanna, che
vuoi de me l (Jourman). Selection
from "La casa innamorata" (Lombardo). To Spring (Barison). Niny
(Ranzato). Nani (Gori).
8.0 till Close Down.—See Turin.

TURIN (Italy)

TURIN (Italy)

Ente Italiano Audizioni Radiofoniche. 1,095 kc/s (273.7 m.);
7 kW. Relayed by Milan, 905 kc/s
(331.5 m.); Florence, 509 kc/s
(305.8 m.); and Genoa, 959 kc/s
(312.8 m.).

Transmits at intervals from 8.15 a.m.
6.45 p.m.—Agricultural Notes and
Report of the Royal Geographical
Society. 7.5—Announcements.
7.10—Musical Selections. Baby in
the Bar (Rotter). Selection from
"A Day in Paradise" (Eysler).
Creole Polka (Leutis). Balletto
rustico (Mulè).
7.30—Time and Announcements.
7.31.—Gramophone Records of
Variety Music. 8.0—Giornale Radio,
Weather and Talk. 8.55—Wireless
Talk.

8.9—Curect of Chamber Music.

o—Concert of Chamber Music. In the interval, Talk on Literature and Art. 1p.o—Radio Revue by Chiappo. 11.0—Giornale Radio.

VIENNA (Austria)

Radio-Wien. 581 kc/s (517 m.); 15 kW. Relayed by *Graz*, 852, kc/s (352.1 m.); *Innsbruck*, 1,058 kc/s (283 m.); *Klagenfurt*, 662 kc/s (453.2 m.); *Linz*, 1,220 kc/s (246 m.); and *Salzburg*, 1,373 kc/s (218 m.).

(453.2 m.); Linz, 1,220 kc/s
(246 m.); and Salzburg, 1,373 kc/s
(218 m.).

Transmits at intervals frem 9,20 a.m.

7.25 p.m.—Old Time Dance Music
and Songs by the Tautenhayn
Quartet. Waltz from the Time of
Schubert (arr. Tautenhayn). MusenPolka (Johann Strauss). Polka,
Leichtes Blut (Johann Strauss). Polka
Leichtes Blut (Johann Strauss).
Polka Mazurka on Motives from
"The Vice Admiral" (Millöcker).
Song (Prechtl). Viennese Song
(Tautenhayn). Polka (Drescher).
Waltz Potpourri from the Works
of Lanner (arranged Tautenhayn).
Waltz, Donaulieder (Johann Strauss
Senior). Polka, Am Wolfgangsee
(Schrammel). Potpourri of Viennese Songs (Tautenhayn). CakeWalk (Klein).

8.10—Weekly Microphone Feuilleton—Two Readings. 8.40—"The
Microphone in a Chicken Farm "—
Andreas Reischek at the Microphone.
9.10—Symphony No. 5 in B Flat
Major (Bruckner), by the Vienna
Symphony Orchestra, conducted by
Leopold Reichwein. 10.20—News
Bulletin, Weather and Announcements. 10.35—Dance Music by the
Ernst Holzer Jazz Band, relayed
from the Café de Paris.

WARSAW (Poland)

Polskie Radio. 212.5 kc/s (1,411 m.); 120 kW.

11.20 a.m.—Aviation Weather Report.
11.25—Interval. 11.45—Press Review. 11.58—Time Signal and Bugle Call from the Tower of St. Mary's Church, Cracow. 12.5 p.m.—Programme Announcements. 12.10—Light Music on Gramophone Records. 1.20—Weather Report. 1.25—Interval. 1.35—Popular Music nterval. 1.35—Popular Musi Gramophone Records. 1.55—

Records. 1.20—Weather Report. 1.25
—Interval. 1.35—Popular Music
on Gramophone Records. 1.55—
2.45—Interval. 2.45—Ornitary Music on Gramophone
Records. 3.5—Economic Report and
Exchange Quotations. 3.15—Report
of a Polish Musical Association. 3.20—
Interval. 3.25—Talk on History.
3.45—Hydrographic Report. 3.50—
Talk on Contemporary Poland. 4.10
—Eight Music on Gramophone
Records. 4.20—Answers to Wireless
Correspondence. 4.40—Variety
Music on Gramophone Records.
4.55—Linguaphone English Lesson.
5.10—Talk: The History of Logic.
5.35—Concert of Light Music. Florentine March (Fucik). Waltz, Die
Schönen von Valencia (Morena).
Selection from "The Czarevitch"
(Lehâr). Tango-Rumba (Pewzner).
Foxtrot (Ansaldo). Song (Donaldson). Air (Zuck). Parade des
Amours (Rimelli). Selection (Keller). Viennese Waltz (Pewzner).
March from "The Love Parade"
(Schertzinger). Serenade (Hey-kens). Boston (Zuck). Torch
Dance (Meyerbeer).
6.50—Miscellaneous Items. 7.15—
Foreign Agricultural Press Review.
7.25—Programme Announcements.
7.30—Sports Notes. 7.35—Light
Music on Gramophone Records.
7.45—Radio Journal. 8.0—Talk on
Music.
8.16—Symphony Concert by the
Warsaw Philharmonic Orchestra. In
the interval, Talk: The Work of an
Author. 10.40—Radio Journal.
10.45—Weather and Police Notes.
10.50—Dance Music.

WILNO (Poland)

533 kc/s (563 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
7.0 p.m.—Programme for Poles in Lithuania. 7.15—See Warszow.
7.25—Cinema Review. 7.35—Programme Announcements and Miscellaneous Items. 7.45—See Warszow.
11.0—Variety Music on Gramophone Records. 12 midnight (approx.)—Close Down.

ZAGREB (Yugoslavia)

Radioklub Zagreb. 977 kc/s (307 m.); 0.75 kW.

12.20 p.m.—Cooking Recipes. 12.30
—Gramophone Concert of Instrumental Music. 1.30—News Bulletin.

1.40—5.30—No Transmission.

5.30—Concert by the Station Orchestra. 6.30—7.30—Interval. 7.30—Announcements. 7.45—Talk: Tobacco and Smoking. 8.5—Talk: The Religion of the Oldest Races of Mankind.

8.30—Concert relayed from Belgrade.

Mankind.
8.30—Concert relayed from Belgrade.
10.30—News and Weather. 10.40—Concert of Light Music.
11.0 (approx.)—Close Down.

PRINCIPAL EVENTS

SATURDAY (May 7)

CONCERTS (Vocal and Instrumental)

6.30 p.m. Brussels No. 1: Mathieu Crickboom programme.

Hamburg: Double quartet (Vocal).
Brussels No. 2: Jef Van Durme pro-7.20 8.0 gramme. Leipzig: "The Seven Last Words"

8.0

(Haydn).
Munich, Berlin (Witzleben), Breslau,
Hamburg: Folk Music. 8.0

8.0 Schweizerischer Landessender: Cham-

ber Orchestra. Radio-Paris: An Evening of Song. Italian stations (Northern): Orchestral. 8.45 9.0 9.15 Prague: Orchestral,

22 9.25

Copenhagen: Suppé programme. Radio-Suisse Romande: Schubert 9.30 programme.

OPERAS, OPERETTAS

7.30 p.m. Budapest: "The Land of Smiles" (Lehár). Stuttgart, Frankfurt: "Frühlingsluft"

8.15 (operetta on Strauss melodies).

8.45

Rome: Studio Opera. Strasbourg: "Monsieur de la Palisse" 8.45 ,, Strasbourg:

(Terrasse). Palermo: "A Waltz Dream" (Lehár). 8.50 ,,

RECITALS

7.35 p.m. 8.30 " Vienna: Pianoforte. Prague: Piskacek's music. 8.30 ,, Warsaw: Chopin.

MISCELLANEOUS

8.0 p.m. Langenberg, Heilsberg, Königs-Wuster-hausen: Variety programme.

DANCE MUSIC

8.0 p.m. Stockholm: Spring Ball. 10.30 " Strasbourg (till 12.0). Copenhagen (till 12.15). 11.0 ,,

Festival in Annaberg

The Central German Broadcasting Company is arranging a Festival of Music in the Erzgebirgetown of Annaberg to-day and to-morrow, and the Saxon Government is lending its patronage to the



[Photo: Paul Schaefer, Wiesbo

Carl Schuricht, who recently succeeded Dr. Adolf Szendrei as Music Director of succeeded the Central German Broadcasting Company

undertaking. One object of the Festival is to do honour to the composer Heinrich Koselitz; born in Hamburg,

he achieved distinction not only musician under the assumed name of Peter Gast, but also as a friend of the philosopher Nietzsche. On both days of the Festival, the Leipzig Symphony Orchestra is to perform programmes chosen from the big symphonic music of Beethoven and Bruckner, and the Haydn oratorio, The Seven Words at the Cross, will also be given. That last is to be broadcast from LEIPZIG station, as will also be a big popular competition in singing set down for to-morrow afternoon (May 8th).

Franz von Suppé

The composer whom the whole world knows as Franz von Suppé, had the much more imposing name of Francesco Ezechiele Ermenegildo Cavaliere Suppé Demelli. Although his taste for music developed so early that when he was fifteen he had a Mass of his own sung in church, he was intended, like many another musician, for a more prosaic career. It was only after his father's death that he persuaded his mother to allow him to take up music in earnest. For the greater part of his life he lived in Vienna, and it was there that most of his operas and operettas were first staged, though many of them quickly made their way much farther More than one was produced in London, and Paris also succumbed to the lure of his melodious gaiety. His industry was such that, according to one authority, he left the amazing number of 165 light operas and smaller works, as well as at least two Among the former there is one which grand operas. anticipated Lilac Time, a little opera called Franz Schubert, in which some of Schubert's own melodies were incorporated. Known now chiefly by the overtures to about half a dozen of his operettas, he is so popular a figure by virtue of them alone, that his name is likely to endure for many generations to come. The overture to *Poet and Peasant*, for instance, is published by one firm alone in no less than fifty-nine arrangements for different combinations of instruments. A programme of his music is being broadcast from COPENHAGEN at 9.25 this evening.

NATIONAL

kc/s. 1,148 261.3 50 London: Daventry: 193 1,554.4 30 Northern: 995 301.5 50

10.15 a.m.—The Daily Service.
10.30—Time Signal (Greenwich);
Shipping Forecast.
10.45—11.0—"Domestic Economics"—I, Mr. J. W. Cassels.
12 noon—The Northern Studio Orchestra.
12.45 p.m.—Reginald New at the Organ.

Organ.

Organ.

Organ.

Greenwich).

1.0 — Time Signal (Greenwich).

1.30—The Commodore Grand Orchestra, directed by Joseph Muscant.

2.30—"Cavalleria Rusticana"

("Rustic Chivalry") (Mascagni).

Relayed from the Old Vic.

3.35—The London Zigeuner Orchestra.

Cecil Baumer (Pianoforte).

4.45—Time Signal (Greenwich).

4.45—Reginald Foort.

5.15 (Daventry)—The Children's Hour.

5.15 (London and Northern)—The B.B.C. Dance Orchestra, directed by Henry Hall.

6.0—"The First News."

6.30—Sports Talk.

6.36—Sports Talk.

6.45—A Recital by Seymour Whin-

6.30—Time Signal (Greenwich).
6.30—Sports Talk.
6.45—A Recital by Seymour Whinyates (Violin).
7.5—7.20—Topical Talk.
7.30—An Excerpt from "Derby Day." A Comic Opera in Three Acts by A. P. Herbert. Music by Alfred Reynolds.
8.0—Community Vaudeville. Accompanied by the B.B.C. Theatre Orchestra, conducted by Joseph Lewis. George Gee (Cornedian); Ethel Levey (The Famous Revue Artist); Stainless Stephen (Comedian); Elsie and Doris Waters (Entertainers).
9.0—Time Signal (Greenwich).
9.15—Shipping Forecast; New York Stock Market Report.
9.20—Talk.
9.40—"On With the Dance"—III. At the Ballet. The B.B.C. Theatre Orchestra. Conductor, Leslie Woodgate.
10.35—12 midnight—Dance Music. Ambrose and his Orchestra.
11.30—Time Signal (Greenwich).

REGIONAL

kW. kc/s London: 842 356.3 50 Midland: 752 398.9 25 Northern: 626. 479.2 50

10.15 a.m. (London and Northern)
—The Daily Service.
10.30—11.0 (London and Northern)
—Daventry National Programme.
12 noon (London and Northern)—The
Northern Studio Orchestra.
12.45 p.m. (London and Northern)—
Daventry National Programme.
2.30—"Cavalleria Rusticana" (Mascagni). Relayed from the Old
Vic.
3.35 (London and Northern)—

Vic.
3.35 (London and Northern)—The
London Zigeuner Orchestra. Cecil
Baumer (Pianoforte).
3.35 (Midland)—Dance Music. Billy
Merrin and his Commanders.
4.45—Daventry National Prograzime.
5.15—The Children's Hour.
6.0—"The First News."

4.35 Enthe Children's Hour.

6.0-"The First News."

6.30 (London)—The J. H. Squire Celeste Octet. Tom Kinniburgh (Bass).

6.30 (Midland).—The Midland Studio Orchestra. Olive Hind (Soprano). Val Vaux (Entertainer).

6.30 (Northern).—The Studio Orchestra. Douglas Steele (Pianoforte); Annie Chadwick (Soprano). "A Lucky Face." A Play in One Act by Lucy Kershaw.

8.0 (London)—The B.B.C. Orchestra (Section C). The Wireless Chorus, conducted by Stanford Robinson.

8.0 (Midland).—Midland Cathedrals Festival by the Combined Choirs of Birmingham, Coventry, and Leicester Cathedrals.

9.0 (London and Midland)—Chamber Music. Eleanor Kaufman (Soprano). The Michael Doré Trio: Michael Doré (Violin); Frederick Alexander (Violoncello); Jack Beaver (Pianoforte)

9.0 (Northern).—A Revue, "Topicalities" Music by well-known

9.0 (Northern).—A Revue, "Topi-calities." Music by well-known Composers. Produced by Victor

Smythe.
10.15—"The Second News."
10.35 (Midland)—Experimental
Transmission by the Fultograph

Process.

10.40—11.0 (Midland)—As London.

10.35—12 midnight (London and Northern)—Dance Music.

NOTE: THE HOURS OF TRANSMISSION ARE REDUCED TO BRITISH (1,635 m.); 60 kW. SUMMER TIME

ALGIERS (N. Africa)

825.3 kc/s (363.3 m.); 13 kW. Transmits at intervals from 12.30 p.m. 7.0 p.m.—Chansonnettes. 7.15— Financial Report. 7.25—Shipping Report, Agricultural Notes and Weather Forecast. 7.30—Chanson-nettes.

Weather Forecast. 7.30—Chanson-nettes.
7.45—Violin, 'Cello and Organ Solos. Violin Solo: La Follia (Corelli). 'Cello Solo: Adagio cantabile (Nardini). 'Cello and Organ Selection: Nocturne (Fauré). 8.0—News and Time Signal. 8.5—Selection from "Les Brigands"—Operetta (Offenbach). 8.30—Request Concert on Gramophone Records.

BARCELONA (Spain)

Radio-Barcelona (EAJ1). 860 kc/s (349 m.); 8.kW.
Transmits at intervals from 8.30 a.m. 8.0 p.m.—Concert by the Station Trio. 8.30—Exchange Quotations and Elementary English Lesson. 9.0 —Request Gramophone Records and News Bulletin. 10.0—Chimes, Weather, Market Prices and Exchange Quotations

News Bulletin. 10.0—Chimes, Weather, Market Prices and Exchange Quotations. 10.15—Orchestral Selections. March, Elektrafilm (Kostal). Waltz, Künstlerleben (Joh. Strauss). Selection from "Molinos de viento" (Luna). Le Matin (Chaminade). 10.30—Programme from Madrid.

607 ke/s (430.4 m.); 2.5 kW.
Transmits at intervals from 11.0 a.m.
4.0 p.m.—Evensong Relay. 4.30—
Request Gramophone Concert. 5.30—
Yugoslavian Songs by Nada Aleksandrovic. 6.55—Time Signal and Programme Announcements. 7.0—German Dialogue. 7.30—Talk (to be announced). man Dialogue. 7.30—Talk (to be announced).
8.0—Selections from "Rigoletto".
—Opera (Verdi). The Station Orchestra. Soloists: Beba Kapmadzija and Pavle Holodkov. 8.45—Dramatic Programme. 9.30—News Bulletin. 9.50—Concerto (Rachmaninov) played by the Composer, on Gramophone Records. 10.30—Dance Wiusic on Gramophone Records.

BELGRADE (Yugoslavia)

gerov). In the interval, Film Notes. 6.0—Talk: Bremen as a German Sea Port. 6.25—Labour Market Report. 6.30—Fantasia in C Major, Op. 17, for Pianoforte (Schumann). 6.55—"The Witzleben Station informs its Listeners..." 7.0—Topical Talk. 7.10—Sports Notes. 7.20—Talk: Mother's Day in Germany. 7.35—"The Narrative of the Week." 8.0—See Munich. 9.0—News and Sports Notes. 9.10—A Revue (Karl Schnog, Music by Walter Gronostay). 10.15—Weather, News and Sports

BERLIN (Germany)

Königs Wusterhausen. 183.5 kc/s (1,635 m.); 60 kW.

Transmits at intervals from 5.45 a.m. (Weather, Gymnastics and Concert).

12 noon—Weather for Farmers. 12.2

9. m.—Gramophone Concert of Opera Music, followed by Weather for Farmers. 12.55—Time Signal. 1.30—News Bulletin. 2.0—Gramophone Concert of Sound Film Music, relayed from Berlin (Witzleben). 2.50—Talk: Handwork for Children. 3.30—Weather and Exchange. 3.45—Talk for Women. 4.0—Legal Talk. 4.30—Concert from Hamburg. 5.30—Health Talk. 5.50—Talk: The German Painter, Otto Ubbelolde. 6.5—German Lesson. 6.30—Talk on Aviation. 6.55—Weather for Farmers. 7.0—English Lesson. 7.30—Talk, followed by Weather for Farmers. 8.0—See Langenberg. 10.0—Weather and News. 10.30 (approx.)—Dance Music from Berlin (Witzleben). 12.30 a.m. (Sunday)—Close Down.

BERLIN (Germany)

Witzleben. 715 kc/s (419.5 m.);

Witzleben. 715 kc/s (419.5 m.);
1.5 kW.
Transmits at intervals from 6.0 a.m.
(Gymnastics and Concert from Heilsberg).
4.5 p.m.—Orchestral Concert, conducted by Bruno Seidler-Winkler.
Overture, "The Secret Marriage"
(Cimarosa). Suite from "Cosi fan tutte" (Mozart-Stueber). Concerto in B Flat Major for Violin and Orchestra (Stamitz, arr. v. Klengel). Musik zu einem Ritterballett (Beethoven). Festliche Musik (Wappenschmitt). Manx Rhapsody (de Massi-Hardman). Prelude to "Khovanstchina" (Moussorgsky). Intermezzo (Moussorgsky). Bulgarian Rhapsody, Vardar (Vladigerov). In the interval, Film Notes.
6.0—Talk: Bremen as a German Sea

Transmits at intervals from 6.0 a.m. 6.20 p.m.—Review of the Week's Talks and Literature. 6.45—Weather Forecast. 6.50—Popular Song Polpourri by the Station Orchestra, conducted by Franz Marszalek. Two Selections (Borchert): (a) From Heidelberg to Barcelona, (b) Hören Sie zu! Bitte recht freundlich (Ralph). Halloh! 1930! (Borchert).

Notes. 10.30 (approx.)—Dance Music from the Eden Hotel. 12.30 a.m. (Sunday)—Close Down.

BORDEAUX-LAFAYETTE

(PTT). 986 kc/s (304 m.); 13 kW. Transmits at intervals frem 12.45 p.m.

Transmits at intervals from 12.45 p.m.

7.45 p.m.—News, Exchange and
Lottery Results. 7.50—Talk on Bullfighting, 8.5—Sports Notes. 8.10—
Advanced English Lesson. 8.25—
News and Weather Forecast. 8.30—
Concert of Light Music on Gramophone Records. 9.0—"Our Youth"

—Comedy in Four Acts (Alfred
Capus). After the Programme, Bordeaux Amusement Guide and Time
Signal.

1,076 kc/s (279 m.); 14 kW.
Transmits at intervals from 11.0 a.m.
7.0 p.m.—See Prague. 7.25—See
Moravská-Ostrava. 8.25—See Prague.
10.20—Programme Announcements
and Notices. 10.25—See MoravskáOstrava.

923 kc/s (325 m.); 1.5 kW. Relayed by Gteiwitz, 1,184 kc/s (253 m.).

Transmits at intervals from 6.0 a.m.

BRESLAU (Germany)

(Czechoslovakia)

Signal.

BRATISLAVA

(France)

Haloh! 1930! (Borchert).
7.45—Weather Forecast. 7.40—
"That will interest you!"—Surprise
Programme. 8.0—See Munich. 9.0—
News Bulletin. 9.10—See Berlin
(Witzleben). 10.15 (in the interval)—
Time, Weather, News, Sports Notes
and Programme Announcements. 12
midnight (approx.)—Close Down.

BRNO (Czechoslovakia)

878 kc/s (342 m.).; 35 kW. Transmits at intervals from 11.0 a.m. 7.0 p.m.—See Prague. 7.25—Brass Band Concert. 8.15—Reading.

8.35—Pianoforte Recital. 9.0—See Prague. 10.20—Announcements. 10.25—See Moravská-Ostrava.

BRUSSELS (Belgium) (No. 1)

I.N.R. 590 kc/s (509 m.); 15 kW.
12 noon—Concert by Max Alexys
and his Orchestra. 12.30 p.m.—
Weather Report. 12.40—Concert
(continued). 5.0—Dance Music from
the St. Sauveur Palais de Danse.
6.15—Talk: Professions and Occu-

Weather Report. 12.40—Concert (continued). 5.0—Dance Music from the St. Sauveur Palais de Danse. 6.15—Talk: Professions and Occupations: The Cremator. 6.30—Mathieu Crickboom Concert. Soloists: Mme. Crickboom (Pianoforte), Marguerite Thys (Songs) and Georges Béthune (Violin). Poem for Violin and Pianoforte. Two Melodies. Romance for Violin and Pianoforte. Two Melodies. Ballad for Violin. 7.15—Microphone Report: Belgian Railways. 7.30—Literary Review. 8.0—Selection from "Véronique" (Messager), by the Station Orchestra, conducted by Franz André. Soloists: Mmes. Sam, Saucin, Flory and Derville and MM Géodel, Delys, Merlot, Morelli and Léger. In the interval, "Le goût du Toc"—Comedy in One Act (Bergeret and Pellerin). After the Programme, Le Journal Parlé and Concert by the Max Alexys Orchestra, relayed from L'Ancienne Belgique.

BRUSSELS (Belgium) (No. 2)

N.I.R. 887 kc/s (338.2 m.); 15 kW. Programme in Flemish.

N.I.R. 887 kc/s (338.2 m.); 15 kw. Programme in Flemish.

12 noon—Trio Concert. Oriental March (Rosse). Old Vienna (Drdla). Czardas (Michiels). The Stolen Kiss (Dearly-Leslie). Selection from "Samson and Delilah" (Saint-Saens). Après un rêve (Fauré). Violin Solo: Ronde des Lutins (Bazzini). Ma poupée chérie (de Sévérac). Selection from "Le Comte Obligado" (Moretti). Grossmütterchen (Langer). "Cello Solo: Tarantella (Popper).

12.30 p.m.—Weather Report.

12.40—Concert (continued). Two Sound-Film Selections. Two Hungarian Dances (Brahms). Violin Solo: Croquis chinois (Leemans). "Cello Solo: Neapôlitan Serenade (Sgambati).

gartan Dances (trainis). Violity Solo: Croquis chinois (Leemans). Vcello Solo: Neapolitan Serenade (Sgambati).

1.0—Gramophone Concert. Reflets d'Allemagne (Schmitt): (a) Munich, (b) Nuremberg. Selection from "Rigoletto" (Verdi). Selection from "The Three Musketeers" (Riesenfeld). Jota Navarra (Sarasate). Adoration (Filipucci). La Cinquantaine (Gabriel Marie). Serenata Amorosa (Recce). Xylophone Solo: Waltz (Orth). Organ Solo: Clair de Lune from "Werther" (Massenet). Air de Danse and Cortège on a Chinese Theme (Forter). Malagueña (Albéniz). A la Plage (Lamoen). La Lettre de Manon (Gillet). Overture, The Hebrides (Mendelssohn). 5.0—Concert by Chas. Remue and his Orchestra. 6.0—Variety Music on Gramophone Records. 6.15—Talk: The Football Senson 1931–1932. (3.0—Gramophone Records. Overture, "Monte Cristo" (Gabutti). Vanity Waltz (Wiedoeft). Blue Again (McHugh). Waltz, Moss Rose (Bosc). March of the Imperial Guard (arranged Scriabin). Potpourri, [Hallo, 1930 (Borchert). Selection from "Miss Decima" (Audran). La Craquette (Clerice) Toi (Cazes). Tarantella (Cazes). 7.15—Tourist Talk. 7.30—Agricultural Report.

Tourist Talk. 7.30—Agricultural Report.

—Concert from the Music of Jef
Van Durme. The Composer at the
Pianoforte. Soloist: A. Corbet
(Songs). Pianoforte Solos: (a) Prelude and Fugue, (b) Two Dances.
Song: Twilight Song. Pianoforte
Solos: (a) Au Ruisseau, (b) Burlesque. Song: Le Jour, doré est
Join'. Finale from the Pianoforte Sonata.

loin. Finale from the Piano-forte Sonata.

8.40—Talk by Herman Teirlinck,
9.0—Concert by Chas Remue and his
Orchestra. 10.0—Programme An-nouncements. 10.10—Concert by
Max Alexys and his Orchestra, relayed
from "L'Ancienne Belgique."

BUCHAREST (Romania)

Radio-Bucarest. 761 kc/s (394 m.)

Transmits at intervals from 12 noon. Transmits at intervals from 12 noon. 5.0 p.m.—Light Music and Romanian Music by the Sibicano Orchestra. 6.0—News and Time Signal. 6.10—Light Music and Romanian Music (contd.). 7.0—Talks on History and Geography: 7.40—Popular Music on Gramophone Records. 8.0—Concert by the Station Orchestra. Overture, "William Tell" (Rossini). Siciliano (Bach). Suite, In a Fairy Realm (Ketelbey). 8.30—Talk (to be announced). 8.45—Sketch.

9.5—Concert by the Station Orchestra (contd.). Dance Suite from "The Bartered Bride" (Smetana). Suite, The Troubadour (Amadei). March from "Athalie" (Mendelssohn). 9.45—News and Close Down.

BUDAPEST (Hungary)

545 kc/s (550 m.); 18.5 kW. Transmits at intervals from 9.30 a.m.

Transmits at intervals from 9.30 a.m. Also relayed on 210 metres from 7.25 to 12 midnight.
7.30 p.m.—"The Land of Smiles" Operetta (Lehâr), conducted by the Composer, relayed from the Opera House. In the intervals: News, Weather and Time Signal. After the Operetta: Cigâny Concert from the Hotel Jågerhorn.

COPENHAGEN (Denmark)

I,067 kc/s (281 m.); 0.75 kW. Relayed by Kalundborg, 260 kc/s (1,153 m.). Transmits at intervals from 7.30 a.m.
II.0 a.m.—Weather Forecast. II.10—Fish Market Prices. II.15—Broadcast for Schools. 12 noon—Time and Chimes from the Town Hall. 12.2 p.m. String Ensemble Concert conducted by A. Bendix relayed from the Wivex Restaurant. 2.0—2.30—Interval.

by A. Bendix relayed from the Wivex Restaurant. 2.0—2.30—
Interval. 2.30—Gramophone Concert. Das Veilchen (Mozart). Prologue to "I Pagliacci" (Leoncavallo). Aria from "Philémon et Baucis" (Gounod). Wanderers Nachtlied (Schubert). Shout all over God's Heaven. You're the cream in my coffee. River stay 'way from my door. 3.0—Programme for Children. 3.0—Orchestral Concert, conducted by Emil Reeseh. Overture, "The Bohemian Girl" (Balfe). Waltz, My Land of Dreams (Fahrbach). Ideale (Tosti). Selection from "Carmen" (Bizet). Aubade printaniere (Lacombe). Russian March (Ganne). Reading. Overture, "Lucia di Lammermoor" (Donizetti). Waltz, España (Waldteufel). Intermezzo for Strings, Forget-me-not (Macbeth). Two Swedish Folk Melodies (arr. Svendsen): (a) Allt under himmelens faste, (b) Du gamla, du fria. Intermezzo from "I Pagliacci" (Leoncavallo). Overture, "Martha" (Flotow). 5.40—Exchange and Fish Market Prices. 5.50—Talk. 6.20—French Lesson. 6.50—Weather Forecast. 7.0—News Bulletin. 7.15—Time Signal. 7.30—Talk. 8.0—Chimes from Marchard Marchard Lander Lander Marchard Lander Land

Bulletin.
7.30—Talk. 8.0—Chimes
the Town Hall.
12—Orchestral Concert of Old Dance
Music, conducted by Launy Gröndahl. Battle March (Möller).
Waltz, Manola (Waldteufel). Selections (Joh. Strauss): (a) Polka,
Diplomaten. Selection. Waltz,
Carcador (Royle). Quadrille,
Carcador (Royle). Quadrille,
Carcador (Royle). London Diplomaten. Selection. Waltz, Torcador (Royle). Quadrille, Jorden rundt (Lumbye). London Polka (Metra). Gallop, Professor Mayers Phantasmagorich Farvenspill (Lumbye). 8.40—Readings.

Mayers Phantasmagorich Farvenspill (Lumbye). 8.40—Readings.
9.10—Song Recital from the Works of Bonnen by Johanne Karstens.
Majsol. Vuggevise. Anemone. I Skaergaarden. Aften. Hogen.
9.25—Orchestral Concert of Suppé's Operetta Music. Overture, "Banditenstreiche." Selection from "Donna Juanita." Overture, "Ten Maids and no Man." Selection from "Flotte Bursche." Overture, "Boccaccio."
10.0—News Bulletin. 10.15—Programme of Saxophone Solos, Songs and Pianoforte Solos. 11.0—Dance Music from the Industri Restaurant. In the interval at 12 midnight—Time and Chimes from the Town Hall. 12.15 a.n. (Sunday)—Close Down.

DUBLIN (Ireland)

DUBLIN (Ireland)
(2RN). 725 kc/s (413 m.); 1.2 kW. Relayed by Cork, 1,337 kc/s (224.4 m.).
1.30—2.0 f.m.—Time Signal, Weather Report, Stock Report and Light Music on Gramophone Records. 7.20—News Bulletin. 7.30—Time Signal. 7.31—Talk (to be announced). 7.45—Gaedbilge.
8.0—Concert by the Augmented Station Orchestra. Soloist: Elizabeth Downey (Soprano) 9.0—Dramatic Sketch presented by C. Hayden and Company. 9.30—Dance Music relayed from the Gresham Hotel. 10.30—Timo Signal, News and Weather Forecast. 10.40—Weekly Sports Review and Close Down.

FÉCAMP (France)

Radio Normandie. 1,364 kc/s (219.9 m.); to kW. 12 noon—Light Music on Gramo-phone Records. 12.30 p.m.—News Bulletin. 12.45—Concert of French

SATURDAY continued

Songs. 7.30—Radio Announcements. 8.0—Sponsored Concert. 8.45—Concert of Light Music. 9.15—Concert of Light Music and Dance Music. 10.45—Picture Transmission. 11.00—Dance Music and Variety Items. 3.0 a.m. (Sunday)—Close Down.

FRANKFURT-am-MAIN (Germany)

kc/s (390 m.); 1.5 kW. iyed by Cassel, 1,220 kc/s

770 kc/s (300 m.); 1.5 kW.
Relayed by Cassel, 1,220 kc/s (245 m.).
Transmits at intervals from 6.0 a.m.
3.0 p.m.—Programme for Young People: Tales by Hans Friedrich Blunck. Selections by the Kirchner-Schule Children's Choir. 4.0—Sec Stuttgart. 4.55—Economic Notes. 5.0—Vocal and Instrumental Concert. 6.15—Economic Notes. 6.25—Sec Stuttgart. 6.50—Talk: The Economic Position of the Nations—Austria. 7.15—Time, Programme Announcements, Weather and Economic Notes. 7.30—10.20—Sec Stuttgart. 10.20—Time, Weather, News and Sports Notes. 10.45—Sec Stuttgart. 11.15—Dance Music from Berlin (Witaleben). 12 midnight (approx.)—Cose Down.

HAMBURG (Germany)

HAMBURG (Germany)

Norag (ha, in Morse). 806 kc/s (372 m.); 1.5 kW. Relayed by Bremen, 1,112 kc/s.(270 m.); Flensburg, 1,373 kc/s (218 m.); Hanover, 530 kc/s (566 m.), and Kiel, 1,292 kc/s (23.2.2 m.).

Transmits at intervals from 5.45 a.m. 4.30 p.m. (from Hanover)—Concert from Bad Nemdorf. Conductor: Ernst August Bürger. Overture, "Die Geschöpfe des Prometheus" (Beethoven). Selection from "Mona Lisa" (Schillings). Waltz from "The Man with the Three Wives" (Lehár). Overture, "Die geschiedene Frau" (Fall). Selection from "The Mikado" (Sullivan). Military March (Schubert). 5.30 (from Hanover)—Talk: The Childless Woman, 5.55—Variety Programme. 6.25—Talk on Economics: Jute, an Important Product of Indian Industry. 7.0—Topical Talk. 7.15—Weather Report. 1.20 (from Kiel)—Concert by a Double Quartet. 8.0—See Manich.

9.0—Variety Programme with Paul Nicolaus, Hans Reimann, Willy Hagen and the Little-Station Orchestra, conducted by Gerhard Massz. 10.30—Time, Weather and News. 11.0—Dance Music.

HEILSBERG (Germany)

1,085 kc/s (276.5 mg); 60 kW. Relayed by Danzig, 662 kc/s (453.2

Transmits at intervals from 6.0 a.m. (Gymnastics and Concert).

11.30 a.m.—Concert by the Königsberg Opera House Orchestra, conducted by Werner Richter-Reichhelm. Overture, "The Flying Dutchman" (Wagner): Sketches from the Orient (Zilcher). Prelude to "Tiefland" (d'Albert). Mozartiana (Tchaikovsky). Symphonic Dances (Grieg).

1.5 p.m.—Gramophone Concert of Popular Music. 2.30—3.35—No.

nana (Tchaikovsky). Symphonic Dances (Grieg).

1.5 p.m.—Gramophone Concert of Popular Music. 2.30—3.35—No Transmission. 3.35 (from Danzig)—Handwork for Children. 4.5—Concert from Berlin (Witzleben). In the interval, Talk on Films, relayed from Danzig. 6.15—Agricultural Prices. 6.20—World Market Prices. 6.35—Choral Concert with Introductory Talk. 7.20—Talk: The Housewife and the Economic Crisis. 7.50—An Appeal to Pedestrians, Cyclists and Motorists—Protect yourself again Accidents! 7.55—Weather Report. 8.0—See Munich. 9.0—Programme from Langenberg. 10.0 (approx.)—Weather, News and Sports Notes. 10.30 (approx.)—Dance Music from Berlin (Witzleben). 12.30 a.m. (Sunday)—Close Down.

HILVERSUM (Holland)

1,013 kc/s (296.1 m.); 11 kW. 1,013 kc/s (296.1 m.); 11 kW.
7.25—10.40 a.m.—Programme of the
Workers' Radio Society (V.A.R.A.).
7.25—7.40 and 8.10—8.25—Gymnastics. 8.40—Gramophone Records of
Variety Music.
10.40—Religious Programme by the
Liberal Protestant Radio Society
(V.P.R.O.).
10.55 till Close Down—V.A.R.A.
Programme.
10.55—Variety Programme.

gramme.
12.40 p.m.—Septet Concert. March,
The Honeymoon (Roscy). Waltz,
Sous la voûte étcilée (Waldteufel).

Serenade (Heykens). Gramophone Records of Variety Music. Selection from "Il Trovatore" (Verdi). Hawaiian Memories (Armandola). Gramophone Records of Variety Music. Selection from "The Flower of Hawaii" (Abraham). Meet me to-night in Dreamland (Friedmann). Gramophone Records of Variety Music. Le Cygne (Saint-Saëns). Potpourri, Bayrische Ländler (Daxenberger). Gramophone Records of Variety Music. Waltz, We'll be together again (Nicholls). Foxtrot, 's wird schon wieder besser (Jurmann). Le plus joli rêve (Arezzo). When Yankee Doodle learns to "Parlez-vous français" (Nelson).

2.25—2.40—Interval. 2.40—Talk. 2.55—Maori Songs—Talk with Gramophone Illustrations. 3.25—Talk. 3.40—Maori Songs (contd.).
4.10—Address. 4.25—Saxophone Recital. 4.45—Talk.
5.5—Violin Recital. Melody (Gluck-Kreisler). Caprice No. 20 (Paganini-Kreisler). Caprice No. 20 (Paganini-Kreisler). Tango (Albéniz-Kreisler). Zapateado (Sarasate). In the interval, Gramophone Records of Variety Music. 6.10—Topical Talk. 6.25—Choral Selections. 6.40—Talk for Young Socialists. 6.55—Choral Selections. 7.10—Literary Talk. 7.40—Groningen Programme: Talks and Songs to the Lute.

8.42—Variety Programme.

7.10—Literally Pairs. 7.10
gen Programme: Talks and Songs to the Lute.
8.45—Variety Programme. The V.A.R.A. Orchestra conducted by Hugo de Groot, the V.A.R.A. Dramatic Ensemble, Heer Jong (Organ), the Accordion Harmonists, the Hawaiian Quartet, the Schrammel Quintet and Vocalists.
11.40 (in an interval)—News and Football Notes. 12.40 a.m. (Sunday)—Close Down.

HUIZEN (Holland)

HUIZEN (Holland)

160 kc/s (1,875 m.); 8.5 kW.
Programme of the Catholic Radio Society (K.R.O.).

8.49—9.55 a.m.—Gramophone Records of Popular Music. 10.40—
Trio Concert. 12.10 p.m.—Religious Address. 12.40—Police Notes.
12.55—Concert by the Station Sextet.
Kaiser Friedrich Marsch (Friedemann). Salut d'amour (Elgar).
Frauenlobgesänge (Spary). Nena (Pollero). Potpourri, Hört und staunt (Dostal). Unvergessliche. Stunden (Fucik). Selection from "Mignon" (Thomas). Good-bye (Tosti). Sweeish Songs and Dances (Pagel). Destiny (Baynes). Finale.
2.40—Gramophone Records of Popular Music. 3.10—Programme for Children 4.40—Gramophone Records of Variety Music. 5.10—H.I.R.O. Programme. 6.10—Gramophone Records of Popular Music. 6.50—Press Review. 7.10—Gramophone Records of Popular Music. 6.50—Press Review. 7.10—Gramophone Records of Popular Music. 6.50—Press Review. 7.10—Gramophone Records of Popular Music. 7.50—Talk. 8.10—Police Notes. 8.25—Sports Talk.
8.40—Orchestral Concert conducted by Marinus van 't Woud. Overture," Casanova" (Lincke). Intermezzo, Fraureuther Porzellan-Püppchen (Lincke). Song, Die Berge, die sind meine Heimat (Birkhofer). Selection (Raymond). Waltz, Sommerlust (Lincke). Grotesque, Der springende Punkt (Siede). Habana (Chwat). Sclection (Ralton). Three Russian Melodies. Potpourri, Das Beste vom Besten (Dostal). 9.40 (approx.).—News Bulletin. 9.55—Radio Theatre. 10.55—Concert (contimued). Selection from "Wenn die kleinen Veilchen Blüben" (Stolz).
11.40—Gramophone Records of Popular Music. 12.40 a.m. (Sunday)—

die kleinen Veilchen Blühen '' (Stolz).

11.40— Gramophone Records of Popular Music. 12.40 a.m. (Sunday)—Close Down.

KALUNDBORG (Denmark) 260 kc/s

Kalundborg Radio. (1,153 m.); 7.5 kW. See Copenhagen.

KATOWICE (Poland)

734 kc/s (408 m.); 16 kW.
Transmits at intervals from 11.58 a.m.
5.25 p.m.—Running Commentary
on the Tennis Match, Merlin v.
Tloczynsky. 7.20—Talk. 8.15—
Concert of Light Music. 10.10—
Pianoforte Recital by Sophie Rabcewicz. Programme of the Works
of Chopin. 10.55—Talk. 11.10—
Dance Music.

LAHTI (Finland)

167 kc/s (1,796 m.); 54 kW. Relayed by Helsinki, 815 kc/s (268 1 m.).
Transmits at intervals from 7.10 a.m. 6.15 p.m.—Talk 6.40—Concert by a Workers' Choir, relayed from Tampere. 7.0—A Radio Play (Arti). 7.30—Dance Music. 8.0—Humor-

esques by Tettu Weissmann. 8.15—Dance Music (contd.). 8.45—News in Finnish and Swedish. 9.15—Dance Music from the Pörssi Restaurant. 11.0 (approx.)—Close Down.

Music from the Pörssi Restaurant.
11.0 (approx.)—Close Down.

LANGENBERG (Germany)

Westdeutscher Rundfunk. 635 lic/s (473 m.); 60 kW.

Transmits at intervals from 6.45 a.m.
12 noon—Gramophone Concert. Coronation March from "The Prophet" (Meyerbeer), by the Berlin Philharmonic Orchestra conducted by Leo Blech. Invitation to the Dance (Weber-Berlioz), by the Berlin Philharmonic Orchestra conducted by Erich Kleiber. Intermezzo from "I Pagliacci" (Leoncavallo) by the Berlin Philharmonic Orchestra conducted by Schmar Meyrowitz. Two Songs by Josef Schmidt (Tenor): (a) Heimatland (Kistenmacher), (b) Emigrant (Knauer). Selections from "Schön ist die Welt" (Lehar) by Members of the Berlin Philharmonic Orchestra, conducted by Hans Schleger. Potpourri, The Trumpcter's Dream, by Willy Liebe (Cornet), with Orchestral accompaniment. Song by Emil Baebler (Tenor) and a Vocal Quartet with Orchestral accompaniment: Der Wagen rollt (Füst). Johann Strauss Potpourri by the Berlin Philharmonic Orchestra conducted by Ernst Viebig. 12.50 pm.—Weather Report, Announcements and Time Signal. 1.0—Concert from Stuttgart. 2.35—Gramphone Concert of Popular

nouncements and Time Signal. 1.0—Concert from Stuttgart. 2.35—Gramophone Concert of Popular Music. 3.30—Econòmic Notes and Time Signal. 3.50—Programme for Children. 4.20—Talk for Women. 4.40—English Lesson. 5.0—Orchestral Concert. 6.15—Talk: Excursions in the Rhineland and Westphalia—Down the Rhine in a Steamer. 6.40—Talk: The Oldest Civilisation of Mankind. 7.0—

and Westphalia—Down the Rhine in a Steamer. 6.40—Talk: The Oldest Civilisation of Mankind. 7.0—Weather Report, Time, Economic and Sports Notes. 7.15—Wireless Technical Talk. 7.30—Talk on Taxation Questions. 7.55—First News Bulletin. 8.0—Orchestral Concert conducted by Eysoldt, followed by News, Sports Notes and Late Concert. 12 midnight—Gramophone Records of Famous Dance Bands. 1.0 a.m. (Sunday)—Close Down.

Dance Bands. 1.0 a.m. (Sunday)—Close Down.

LEIPZIG (Germany)

1.157 kc/s (259 m.); 2 kW. Relayed by Dresden, 041 kc/s (319 m.).

Transmits at intervals from 6.0 a.m. 6.20 p.m.—Legal Talk. 6.50—Talk; A Modern Dictionary. 7.0—Reminiscences of a long Journey in a Collapsible Boat, by Elmar Werlé: 7.35—Talk: Haydn as a Composer of Church Music.

8.0—The Seven Last Words—Oratorio for Four Soloists, Choir and Orchestra (Haydn), relayed from St. Anne's Church, Annaberg, on the occasion of the Erzgebirge Festival of Music. 9.0—Walther Francke-Ruta reads from his own works.

9.30—Concert of Dances by the Leipzig Symphony Orchestra, conducted by Hilmar Weber. Swedish Dances Nos. 8—10 (Bruch). Invitation to the Dance (Weber). Hungarian Dances Nos. 12 and 14 (Brahms). German Dances Nos. 1—3 (Reger). Slavonic Dances Nos. 6 and 7 (Dvorak). Polonaise from Op. 18 (Nedbal). Quadrille from "A Night in Venice" (Johann Strauss). Waltz from "Das Musikantenmädel" (Georg Jarno). Polka, Schneesternchen (Eduard Strauss). Mazurka, Erwachte Liebe (Millöcker). Slow Foxtrot from "Eine einzige Nacht" (Stolz). Blues from "Prinzessin Ti-Ti-Pa" (Stolz). Foxtrot, from "The Grand Duchess of Chicago" (Kálmán).

10.5 (in an interval)—News. 11.30—Gramophone Dance Music. 12 midnight (approx.)—Close Down.

LJUBLJANA (Yugoslavia)

522 kc/s (574.7 m.); 2.5 kW.
Transmits at intervals from 12.15 p.m.
5.30 p.m.—Quintet Concert. 6.30—
Gymnastic Lesson. 7.0—English
Lesson. 7.30—Elocution Lesson.
8.0—Choral and Orchestral Concert
by the Grafika Society. 10.0—Time
and News. 10.15—Concert of Light
Music.

LWÓW (Poland)

788 kc/s (381 m.); 16 kW.
Transmits at intervals from 11.45 a.m.
7.0 p.m.—Miscellaneous Items. 7.25
Sec Warsaw. 7.35—Light Music on
Gramophone Records. 7.45—Relay
of Foreign Stations. 10.50 (approx.)—
—Close Down.

LYONS (France)

La Doua (PTT). 644 kc/s (465.8 m.); 1.5 kW.
Transmits at intervals from 8.0 a.m.

7.0 p.m.—Popular Music on Gramo-phone Records, 7.30—Radio Gazette for Lyons and the South-East, 8.30 —Variety Programme.

MADRID (Spain)

Union Radio (EAJ7). 707 kc/s (424.3 m.); 2 kW.

Transmits at intervals from 9.0 a.m Transmits at intervals from 9.0 a.m. 8.0 p.m.—Chimes, Exchange, Market Prices, Technical Wireless Talk and Request Gramophone Concert. 9.15—News Bulletin. 9.30—10.0—Interval. 10.0—French Lesson on Linguaphone Records. 10.30—Chimes, Time Signal and Musical Comedy Selection: "El rey que rabio" (Chapi). 12.45 a.m. (Sunday)—News Bulletin. 1.0—Chimes and Close Down.

MILAN (Italy)

Ente Italiano Audizioni Radio-foniche. 905 kc/s (331.5 m.); 7 kW. ee Turin,

MORAVSKÁ-OSTRAVA (Czechoslovakia)

1,137 kc/s (263.8 m); 11 kW. Transmits at intervals from 10.0 a.m.

This at intervals from 10.0 a.m., 7.0 p.m.—See Prague. 7.25—Brass Band Concert. 8.25—See Prague. 10.20 — Programme announcements and Theatre Guide. 10.25—Variety Programme by W. S. Gilbert.

MOSCOW (Russia)

Trades Union_ 230.1 kc/s (1,304 m.); 100 kW.

m.); 100 kW.

Transmits at intervals from 5.0 a.m.
6.30 p.m.—Proletariat Radio Journal.
7.15—Programme for Komsomols.
8.0—Talk in English: The USSR
Press. Talk in Spanish: The First
of May in the USSR. 9.55—Time
Signal. 10.0—Weather Forecast.
11.0 (approx.)—Close Down.

MUNICH (Germany)

563 kc/s (533 m.); t.5 kW. Relayed by Augsburg and Kaisers-lautern, 536 kc/s (560 m.); and Niiruberg, 1,256 kc/s (239 m.). Transmits at intervals from 6.45 a.m

6.15 p.m.—"The Quiet Hour." 6.55—Talk on the Alps. 7.15— Evening Concert. 7.40—Wireless

Notes.

8.0—Folk Music—Concert by a Guitar and Mouth-Organ Quartet, with Selections by Richard Amort (Tyrolese Harp) and J. Westermair (Bavarian Humorous Songs), a Vocal Quartet (Viennese Songs) and Zither Music. 9.0—Gramophone Records of Fannous Italian Singers. 9.20—Orchestral Concert, conducted by Erich Kloss. 10.20—Time, Weather and News. 10.45—Concert from Stuttgart. 12 midnight (approx.)—Close Down. Notes. 8.0—Folk

OSLO (Norway)

OSLO (Norway)

Kringkastingselskapet. 277 kc/s (1,083 m.); 60 kW. Relayed by Fredriksstad, 816 kc/s (367.6 m.); Hamar, 536 kc/s (560 m.); Notodden, 671 kc/s (447.1 m.); Porsgrund, 662 kc/s (453.2 m.); and Rjukau, 671 kc/s (447.1 m.). Transmits at intervals from 11.10 a.m. 4.30 p.m.—Concert by the Orchestra of the Cecil Restaurant. Selection from "Suzanna's Secret" (Wolf-Ferrari). Waltz from "Der Rosenkavalier" (Richard Strauss). Selection from "Der Freischütz" (Weber? (Richard Strauss). Selection from "Der Freischütz" (Weber?). Egyptian Dance (Friml). Solefaldssang (Olsen). Fifteenth Hungarian Dance (Brahms). 5.15—Programme for Children. 6.45—Norwegian Music for Voice and Hardanger Fiddle. 7.0—Announcements, Weather and News Bulletin. 7.30—Talk: The Attack on Zeebrugge. 8.0—Time Signal. 8.1—Provincial Programme.—Music from Sogn. 10.0—Weather and News Bulletin.

Browincial Programme.—Wuste Horn Sogn. 10.0—Weather and News Bulletin.

10.30—Concert by the Station Orchestra, conducted by Hugo Kramm. Military March (Schubert). Overture, "Masaniello" (Auber). Selection from "Faust" (Gounod). Selections from "Kongens hjerte" (Per Winge). Selection (Jessel). Spring Mclodies (Sandell). Silver Clouds (Ketelbey). Offenbachiana (Conradi). March of the Gladiators (Sousa).

11.30—Dance Music. 12.30 a.m. (Sunday)—Close Down.

PALERMO (Italy)

Ente Italiano Audizioni Radio-foniche. 554 kc/s (542 m.); 3 kW. Transmits at intervals from 12.45 p.m. 5.30 p.m.—Light Music on Gramo-phone Records. 6.0—6.30—Pro-

gramme for Children. 8.c—Agricultural Notes and Giornale Radio. 8.20—French Lesson on Gramophone Records. 8.25—Sports Notes. 8.30—Time Signal and News Bulletin. 8.50—"A Waltz Dream"—Operetta (Oscar Straus.) In the intervals, Book Review and Announcements. 10.55—News Bulletin and Close Down.

PARIS (France)

Eiffel Tower (FLE). 207.5 kc/s (1,445.7 m.); 13 kW.
Fime Signals (on 2,650 m.) at 10.26 m. and 11.26 p.m. (preliminary and -dot signals).

6-dot signals).

Transmits at intervals from 1.0 p.m.
6.45 p.m.—Illustrated Talk on Music.
7.0—Le Journal Parlé. 8.20—Weather Forecast. 8.30—Dramatic
Programme. "Angoisses"—Comedy
in Three Episodes (Robert Caillas).
"Le Candidat "—Sketch in One Act
(Alin Mnojardin). "Yvette a de
l'ordre"—Play in One Act (Emile
Roudié). In the interval, Wireless
Notes.

PARIS (France)

Postc Parisien. 914 kc/s (328.2 m.);

Transmits at intervals from 12 noon.

Transmits at intervals from 12 noon. 6.45 p.m.—News and Announcements. 7.0—Gramophone Records, Talk and News. 7.30—Concert of Light Music on Gramophone Records, Talk and News. 8.30—Gramophone Records, Talk and News. 8.45—Vocal and Orchestral Concert. Prelude to "Colomba" (Büsser). Musique pour radio (Filip Lazar). La Campana sommersa (Respighi). Chanson et danses (Vincent d'Indy). Rondo (Max Reger). Rapsodie Française (Schmitt). Ballet Music from "Siang-Sing" (Hüe). Spanish Dances from "La vida breve" (Falla). Five-o'Clock (Ravel).

PARIS (France)

Radio-Paris (CFR). 174 kc/s (1,725 m.); 75 kW. 6.45 a.m.—Physical Culture. 7.30— Weather and Physical Culture (con-

7.45—Gramophone Records. Valse des Musettes (Puig-Silbermann). Vienna City of my Dreans (Sieczynsky). Pegandole al Cimarron (Torres Alanso). Fontane (Padilia). 8.0—News, Weather and Press Review.

(Torres Alanso). Fontane (Fadula).

8.0—News, Weather and Press Review.

12.30 p.m.—Gramophone Concert.
Aimons dans le Mystère (Persiani-Bonnier-Charpentier). Marionnettes (Glazounov). Vision de Salomé (Joyce). El Relicario (Padilla). Miami (Loyraux).
Ginette (Paradis). Clair de Lune (Ketelbey). Polka des as (Marccau). Ay! Ay! (Freire).
Selection (Loyraux). The Blue Waltz (Margis). Piccolo (Oscar Straus). Emma Livry (Pirouelle). Tesoro mío (Becucci). Le Temps des Cerises (Renart). Romance (Svendsen). Circus Memory (Peter). Simple aveu (Thomé). Glow-Worm Gavotte (Lincke). A Lilliputian Wedding Procession (Translateur). In the interval, News and Weather.
3.0—Programme for Children. 3.45—Market Prices, Weather, Agricultural Report and Racing Results.
7.0—Talk arranged by the Union des Grandes Associations Françaises. 7.10—Scientific Talk: Shall we soon be able to visit the Moon?
7.30—Elementary Book-keeping Lesson. 7.45—Press Review, Commercial Prices and News. 8.0—Literary Readings: English Humour.
8.35—News, Sports Notes and Weather. 8.40—Review by Jean Rieux.

Rieux. 8.45—An Evening of Song. presented by Jean Bastia. In the interval at 9.15—Press Review and News.

POZNAŃ (Poland)

896 kc/s (335 m.); 1.9 kW. Transmits at intervals from 11.45 a.m. Transmits at intervals from 11.45 a.m. 7.0 p.m.—Miscellaneous Items and Announcements. 7.15—Talk on Journalism. 7.30—Topical Talk. 7.45—10.45—See Warsaw. 10.45—Sports Notes and Police Report. 11.0—Dance Music from the Polonia Café. 12 midnight (approx.)—Close Down.

PRAGUE (Czechoslovakia)

614 kc/s (488.6 m.); 120 kW.

Transmits at intervals from 11.0 a.m.
4.10 p.m.—Orchestral Concert, conducted by Bakala, relayed from Brno. 5.10—German Transmission by Dr. Hugo Siebenschein. 5.25—Eiim Review. 5.35—Literature for Young Men. 6.5—Agricultural

SATURDAY

continued

Report. 6.15—Talk for Workers:
The History of Shoemaking. 6.25—
German Transmission. News and
Musical Programme for Children.
7.0—News Bulletin. 7.5—Talk:
The History of Czechoslovakia.
7.25—See Mozanyki Ostrowy. 7.0—News Bulletin. 7.5—Talk: The History of Czechoslovakia. 7.25—See Moravská-Ostrava. 8.25—Variety Music on Gramophone Records. 8.30—Rudolf Piskacek Concert. 9.0—Time and News. 9.15—Orchestral Concert. 10.0—Time and News. 10.20—Announcements. 10.25—See Moravská-Ostrava.

RADIO-SUISSE ROMANDE (SOTTENS) (Switzerland)

743 kc/s (403 m.); 25 kW. Lausanne, 442 kc/s (680 m.) and Geneva, 395 kc/s (760 m.).

T43 kc/s (493 m.); 25 kW.; Lausanne, 442 kc/s (686 m.); and Geneva, 395 kc/s (760 m.).

12:30 p.m.—Time Signal from Neuchâtel Observatory. 12:32—Weather Forccast and News. 12:40—Concert by the Station Orchestra. 1.0—Exchange Quotations and Market Prices. 1.5—Concert (contd.). 2:0—4:30—Interval. 4:30—Time Signal from Neuchâtel Observatory. 4:31—Concert by the Station Orchestra. 6.0 (from Lausanne)—Dance Music. 6:30 (from Lausanne)—Literary Review. 7:0—Weather Forcast. 7:1 (from Lausanne)—Light Music on Gramophone Records. 7:30 (from Lausanne)—Talk: The Week in International Politics. 8:0 (from Geneva)—Talk: The Work of the Disarmament Conference. 8:10 (from Geneva)—Reading by Henri Tanner: Two Tales. 8:30—Concert by the Station Orchestra. 9:30 (from Montreux)—Park Relay from the Kursal of the Schubert Concert by the Alpine Choir, the Chailly Male Voice Choir, Mme Rumbeli-Trokay (Contratto) and Jean Koella (Pianoforte). Nachtgesang im Walde for Choir. Contralto Solos: (a) Der Erlkönig, (b) Die Forelte, (c) Das Mädchen und der Lindenbaum. Choral Selections: (a) Die Nacht, (b) Unendliche Freude, (c) Drinking Song of the Fourteenth Century. 10:15—Weather Forecast and News Bulletin. 10:25 (from Geneva)—Close Down.

RIGA (Latvia)

572 kc/s (525 m.); 15 kW. Transmits at intervals from 7.0 a.m.
6.0 p.m.—French Lesson. 6.30—
Agricultural Talk. 7.0—Weather
Report. 7.5—"White Fang"—
Play in Three Acts (Sipins), after a
Novel by Jack London. 8.0—News
Bulletin. 8.20—Concert of Music
from less known Operas. 9.0—
Weather. 9.15—A One-Act Play
(Hauptmann). 9.40—Dance Music
Programme. 11.0 (approx.)—Close
Down. Transmits at intervals from 7.0 a.m.

ROME (Italy)

Ente Italiano Audizioni Radio-foniche (1RO). 680 kc/s (441 m.); 50 kW. Relayed by Naples, 941 kc/s (319 m.), and 2RO, 11,810 kc/s (25.4 m.).

Transmits at intervals from 8.15 a.m. noon-Gramophone Records of riety Music. 12.35 p.m.-Weather

Variety Wusit. 10.35 p.m.

Variety Wusit. 10.35 p.m.

12.45—2.0—Vocal and Instrumental Concert. The Radio Sextet, Walter Sommer ('Cello) and Niny Borucchia (Soprano). Soprano Solos: (a) Spanish Song, El Lelillo, (b) Las hijas del Zebedero carceleras (Chapi), (c) Cori, coruzzo (Sadero). 'Cello Solos: (a) Le cygne (Saint-Saens), (b) Tzigane (Gabriel-Marie). Sinfonietta veneziana (Principe). Zingaresca (Cerrai). Selection from "The Czardas Princess" (Kálmán). Milonguita addio (Panizzi). Intermezzo, Conditional Carlotte (Carlotte). March: One, Marie). Sinfonietta veneziana (Principe). Zingaresca (Cerrai). Selection from "The Czardas Princess" (Kalmán). Milonguita addio (Panizzi). Intermezzo, Consuelo, (Culotta). March: One, Two, Three (Reisfeld). In the intervals: Giornale Radio, Exchange, Time and Announcements.

Time and Announcements.
5.0—Exchange, Report of the Royal
Geographical Society, Giornale Radio
and Announcements. 5.15—Reading.
5.30—Song Recital by Virginia Brunetti and Maria Soccorsi (Sopranos).
Cloe alla fontana (Clari). Per valli,
per boschi (Blangini). La Vierge a
la Crèche (Franck). Les Danses de
Lormont (Franck).
Selection

45—Variety Concert. Selection from "Frasquita" (Lehár). Selec-tion (Jurmann). Les Violettes (Waldteufef). Rumba (Dauber) Andalusian March (Pennati-Mal-vezzi)

Talk: The Province of Ancona. 6.55 (from Naples)—Shipping and Sports Notes. 7.0—Atmospheric Signals, Lesson in Morse, Agricultural Notes, Weather, Giornale Radio and Press Review. 8.0—Time and Announcements. 8.5—Gramophone Records of Variety Music. 8.30—Sports Notes and Announcements. 8.45—An Opera (to be announced). In the intervals: Talk—The Return of the Lady of the Camelias, and News Bulletin.

SCHENECTADY (U.S.A.)

General Electric Company (WGY), 790 kc/s (379.5 m.); 50 kW. Relayed at intervals by W2XAF on 9,530 kc/s (31.48 m.); and by W2XAD on 15,340 kc/s (19.56 m.) Transmits at intervals from 11.45 a.m. Transmits at intervals from 11.45 a.m. 9.0 p.m.—Organ Recital by John Zorian. 9.36—Phil Spitalny and his Orchestra, from New York. 9.45—Musical Ad Men. 10.15—Skippy from New York. 10.30—Blue Moon Cuckoos from New York. 10.45—Landt Trio from New York. 11.04—Joe and Eddie. 11.15—Waldorf Orchestra from New York. 11.30—Time Signal. 11.31—American Trio. 11.45 (WGY only)—DeWitt Clinton Orchestra. 12 midnight (W2XAF only)—Stock Reports and News Items.

only—Stock Reports and News Items.

Items.

12.14 a.m. (Sunday)—Weather Report.

12.15—1.15—New York Relay.

12.15—Laws that Safeguard Society.

12.30—Prince Albert Quarter Hour.

12.45—Trials of the Goldbergs.

1.6—Wrigley Programme.

1.15—Bernard Silberg (Cello).

1.30—New York Relay.

1.45—Remard Silberg (Cello).

1.50—National Advisory Council in Radio on Education.

2.0—Goodyear Programme.

2.30—Club Valspar.

3.0—Lucky Strike Dance Hour.

3.0—Lucky Strike Dance Hour.

3.0—DeWitt Clinton Orchestra.

3.0—Hotel New Yorker Orchestra.

5.0—Ralph Kirbery, The Dream Singer.

5.5—Buddy Rogers and his California Cavaliers.

5.30—New Kemmore Orchestra.

6.0 (approx.)—Close Down.

SCHWEIZERISCHER LANDESSENDER (BERO-MÜNSTER) (Switzerland)

653 kc/s (459 m.); 60 kW.; Basle, 1,229 kc/s (244.1 m.); and Berne, 1,220 kc/s (246 m.).

1,220 kc/s (246 m.).
12.28 p.m.—Time Signal from the Neuchatel Observatory.
12.30—Weather Forecast and News Bulletin.
12.40—Popular Programme on Gramophone Records.
1.35—Weather Forecast and Exchange Quotations.
1.45—3.30—Interval.
3.30 (from Berne)—Accordion Recital, with Yodelling Interludes by Fräulein Holzer.
4.0 (from Basle)—Concert by the Wireless Quartet.
5.0 (from Basle)—Concert Schildhood.
1.35—Weather Forecast, and Market Prices.
1.36—6.30—Interval.

and Market Prices. 5.40—6.30— Interval. 6.30—Song Recital by Richard Tauber on Gramophone Records. 7.0 (from Zürich)—Chimes from Zürich Churches. 7.15 (from Zürich)—Educational Talk. 7.28—Time Churches. 7.15 (from Zürich)—Educational Talk. 7.28—Time Signal and Weather Forecast. 7.30 (from Zürich)—Dialect Programme. 8.0 (from Basle)—Concert by the Basle Chamber Orchestra, conducted by Paul Sacher. Soloists: Sylvia von Wintschger (Soprano), and Gertrud Flügel (Violin). 9.30—Reading from Mark Twain. 10.0—Weather Forecast and News Bulletin. 10.15—Dance Music on Gramophone Records. 11.0 (approx.)—Close Down. Records.

STOCKHOLM (Sweden)

Radiotjänst (SASA). 689 kc/s (436 m.); 55 kW. Relayed by Boden, 244 kc/s (1,229.5 m.); Göteborg, 932 kc/s (322 m.); Hörby, 1,166 kc/s (257 m.); Motala, 222.5 kc/s (1,348 m.); Ostersund, 380 kc/s (770 m.); and Sundsvall, 554 kc/s (542 m.). ransmits at intervals from 7.20 a.m. (Gymnastics and Service).

o. p.m.—Orchestral Concert. East Asiatic Suite (Yoshitomo). Waltz (Waldteufel). Tarantella (Brancucci). Four Indian Love Lyrics (A. Woodforde-Finden). Selection from "Viktoria and her Hussar" (Abraham). Selection (Helan).

(Abraham). Selection (rician).
5.0—Programme for Children. 5.30—
Gramophone Records of Light Music.
6.30—"The Practical Corner." 6.45
—Cabaret Programme. 7.15—Weather and News. 7.30—Talk: Swedish Place Names, relayed from Uppsala, 662 kc/s (453.2 m.). 8.0-12 midnight—"A Spring Ball." 8.0 p.m.—Concert from Falun, 977 kc/s (307 m.). 8.30—Melodies by Weyler

Hildebrand and Einar Fagstad. 8.45—Old Dance Music, from Göte-borg. 10.0—Modern Dance Music. In the interval at 9.45—Weather and News. 12 midnight (approx.)—Close

STRASBOURG (France)

Radio-Strasbourg (PTT). 869 kc/s
(345 m.); 11.5 kW.

11.30 a.m.—Gramophone Concert.
Concerto in E Flat Major (Liszt).
Liebestraum (Liszt). Slavonic
Dance No. 2 (Dvorak). Spanish
Dances (Sarasate). Quartet in F
(Ravel). Selection from "Faust"
(Gounod). Overture, "The Magic
Flute" (Mozart). Overture, "Beatrice et Bénédict" (Berlioz). Selection from "The Last Waltz"
(O. Straus). Vienna, City of my
Dreams (Sieczinsky). Hora Trece
(Lucchesi). Murito tu amor
(Rache).

12.45 p.m.—News in French and German. 1.0—Time Signal.
1.2—Gramophone Concert. Selections (Blon): (a) Doll's Parade, (b)
March of the Gnomes. Selection
from "The Gipsy Baron" (Johànn
Strauss). Selection from "La
Fille de Madame Angot" (Lecocq).
Les Patineurs (Waldteufel). Il
bacio (Arditi). Attention (Dostal).
Silenzio incantore (Lava). Core
ingrato (Cardillo). Burattino
(Bixio). Monello bruno (Pasargiklian). In the interval at 1.15—
Tourist Report from Cabrerets.
2.0—Talk in German. 2.15—Dance
Music. 3.15—3.45—Interval. 3.45—
Music Talk with Illustrations: Händel's Music for Pianoforte. 4.0—
Gramophone Records of Dance Music.
4.45—Talk in French. 5.0—Dance
Music. 6.0—French Lesson for German Listeners: 6.15—Agricultural
Talk in French. 5.15—Agricultural
Talk in French. 6.15—Agricultural
Talk in French. 6.15—Agricultural
Talk in French. 6.15—Selection from
"Nina Rosa" (Romberg). Adagio
(Mirtovsky). Selection from "Rosamundo" (Schubert-Kreisler). Selections (Mayerl): (a) Marigold, (b)
Robots. The Glow-worm Gavotte
(Lincke). Czardas (Barthet). Le
Coeur de Ninon (Becucci). Le
Testament de Pierrot (Privas).
Selection from "The Count of
Luxembourg" (Lehâr). Selection
from "Gipsy Love" (Lehâr).
Fideline (Gilbert). Sweet Jennie
Lee (Donaldson). 7.30—Time Signal. 7.32—News in French and
German.
7.45—Gramophone Concert. Selection
from "Fortunio" (Messager). Intermezzo from "L'Arlésienne"
(Bizet). Selection from "La

madour.
3.45—"Monsieur de la Palisse"—
Opéra-bouffe in Three Acts (C. Ter
rasse). 10.30—Dance Music from
the Savoy. 12 midnight—Close Down

STUTTGART (MÜHL. ACKER) (Germany)

AUKER) (Germany)
Süddeutscher Rundfunk. 832 kc/s
(360.5 m.); 60 kW. Relayed by
Freiburg. 527 kc/s (570 m.).
Transmits at intervals from 6.0 a.m.
(Time, Weather and Gymnastics).
10.0 a.m.—Gramophone Concert. Symphony No. 3 in E Flat Major,
Op. 55—the Eroica (Beethoven).
Prometheus Overture, Op. 43
(Beethoven). Invitation to the
Dance (Weber).
10.30—Talk: The Development of

Dance (Weber).

10.30—Talk: The Development of the Swabian Race.

11.00—News and Time Signal.

11.15—11.30—Sponsored Gramophone Records.

12 noon—Weather Forecast.

12.50—Gramophone Records Gramophone Records.

12.20—Gramophone Records of Sam Baskini and his Orchestra. Fiesta (Samuelo and Gilbert).

12.50—Gramophone Records of Sam Baskini and his Orchestra. Fiesta (Samuelo and Gilbert).

12.60—Roman and Gilbert).

12.50—Time, News, Programme An-

12.50—Time, News, Programme Announcements and Weather.

nouncements and Weather.

1.0—Wind Instrument Concert. March, Frühlings Einzug (Blon). Waltz, Ein Sommerabend (Waldteufel). March, Die Freundschaftsflage (Blon). Waltz, Ganz allerliebst (Waldteufel). March, Erzherzog Albrecht (Komzak). Waltz, Wiener Bürger (Ziehrer). Geburtstags-

marsch (Kühne). The Blue Danube

marsch (Kühne). The Blue Danube (Johann Strauss). March, Ein Manneswort (Pollack). Waltz, The Wedding of the Winds (Hall). March, Gernamia (Keil). Waltz Potpourri No. 3 (Robrecht).
2-33—Reading (Jeremias Gotthelf).
1-0—Sce Frankfurt.
1-0—Concert by Teachers and Pupils of the Conservatoire of Music, relayed from the Gustav-Siegle-Haus. Part I.—August Halm. Music to Shakespeare's "A Midsummer Night's Dream "I for Orchestra and Pianoforte. Part II.—Hugo Hermann. Japan Suite, Op. 71, for Mixed Choir a-cappella. Little Chamber Music in Old Style, Op. 13, for String Orchestra and Pianoforte. Part III.—Paul Hindemith. Frau Musica, Op. 45—Music for Singing and Playing. 5.0—See Frankfurt. 6.15—Time and Sports Notes. 6.25—Talk: Aviation as a Sport and its Aims and Accomplishments in Germany. 6.50—See Frankfurt. 7.15—Time and Weather. 7.30—Cherry Blossom in Stetten, Strümpfelbach and Schnait—a Radio Report.

E.15—"Frühlingsluft" Operetta in

Strümpfelbach and Schnatt—a Radio Report.
E.15—"Frühlingsluft" Operetta in Three Acts (Josef Strauss-Reiterer).
10.20—News, Time, Programme Announcements and Weather.
10.45—Jazz on Two Pianofortes by Hilde Loewe and Poldi Donath-Sperling.
11.15—Dance Music from Berlin (Witsleben).
12.30 a.m. (Sunday)—Close Down.

TOULOUSE (France)

Radiophonie du Midi. 779 kc/s (385 m.); 8 kW.

Transmits at intervals from 12.45 p.m. 5.0 p.m.—Transmission of Pictures. 5:15—Orchestral Selections from "The Mastersingers" (Wagner). 6.0—Sound Film Music.
6.15—Orchestral Selections. Overture, "Rienzi" (Wagner). Jubel-Owertüre (Weber). 6.30—News and Exchange. 6.45—Orchestral Selections from "Un bon garçon" (Yvain). and "Paganini" (Lehar). 7.0—Light Music. 7.15—Spanish Songs. 7.30—News and Horse Racing Results. 7.45—Accordion Solos. 8.0—Military Music.
8.15—Songs from "Lakmé" (Delibes). 8.30—German Lesson. 8.35—Light Music. 8.45—Chansonnettes. 9.0—Selections from (a) "The Merry

NATIONAL

Military Band

AFTERNOON

Widow" (Lehar), and (b) "Countess Maritza" (Kálmán).

10.0—Savophore Solos. Plaisir d'amour (Martini). Serenade (Saint-Saöns). Serenade (Drigo). Serenade (Rachmaninov). 10.15—Light Music.

10.30—News Bulletin. 10.45—Organ Solos.

(Rachmaninov). 10.15—Light Music. 10.30—News Bulletin. 10.45—Organ Solos.

11.0—Concert. Souviens-toi (Borel-Clerc). Duet from the First Act of "Manon" (Massenet). Danse macabre (Saint-Saëns). Piedad (Cérénoes). Selection from "A Waltz Dream" (O. Straus). Salut, demeure chaste et pure (Gounod). When I dance with you (Heymann). Morning from the Peer Gynt Suite (Grieg). Berecuse de Jocelyn (Godard). Tyrolese Dance. Musette (Léojac). Délicieuse (Vacher). 12 midnight—Weather, Announcements and Close Down.

TRIESTE (Italy)

Ente Italiano Audizioni Radio-foniche. 1,211 kc/s (247.7 m.);

Transmits at intervals from 8.15 a.m.
7.5 p.m.—Quintet Concert.
 "Tancred" (Rossini). Memories of the Ukraine (Ferraris). L'ultimo bacio (Mildiego). Selection from "Fedora" (Giordano). Minuet (Ramella). Gong (Grovesio).
8.0 till Close Down—See Turin.

TURIN (Italy)
Ente Italiano Audizioni Radiofoniche. 1,096 kc/s (273.7 m.);
7 kW. Relayed by Milan, 905 kc/s
(331.5 m.); Florence, 599 kc/s
(500.8 m.); and Genoa, 959 kc/s
(312.8 m.).

(512.8 m.).

Transmits at intervals from 8.15 a.m. 6.45, p.m.—Agricultural Notes. 7.0—Announcements.
7.5—Musical Selections. Selection (Borchert). Selection from "The Three Musketeers" (Friml). Porzellanpüppchen (Lincke). Oh Donna Clara (Petersbursky).
7.30—Time and Announcements.
7.31—Gramophone Records of Variety Music. 8.0—Giornale Radio and Weather.
8.15—Concert of Light Music. Prelude

and Weather.

8.15—Concert of Light Music. Prelude
to "Faust" (Gounod). Suite for
Strings (Toni). Zwei Märchenaugen (Kälmán). 8.45—Talk.;
Events and Problems.

MIDLAND REG.

Re-

Studio Orch.

cital

NORTH REG.

Mo AF

ist Pro

As National Studio Orch.

SATURDAY continued

9.0—Orchestral Concert, conducted by Arrigo Pedrollo. Overture, "A Midsummer Night's Dream" (Mendelssohn). Two Selections (Berisso): (a) Il vecchio castello sul lago incantato, (b) Notte di luna. Norwegian Rhapsody (Svendsen). Review of Books. Nocturne and Rondo fantastico (Pick-Mangiagalli). Suite, Antiche danze ed arie (Respighi). Overture, "The Mastersingers" (Wagner).

11.0—Giornale Radio, followed by Music from the Fiaschetteria Toscara, Milan. 11.55—News Bulletin.

VIENNA (Austria)

Radio-Wien. 581 kc/s (517 m.); 15 kW. Relayed by Graz, 852 kc/s (352.1 m.); Innsbruck, 1,058 kc/s (283 m.); Klagenfurt, 662 kc/s (453.2 m.); Linz, 1,220 kc/s (246 m.); and Salzburg, 1,373 kc/s (218 m.).

1453.2 m.); Linz, 1,220 kc/s (246 m.); and Salzburg, 1,373 kc/s (218 m.).

Transmits at intervals from 9.20 a.m. I1.30 a.m.—Concert of Popular Music by the Michael Weiss Orchestra. I.O.—Concert (continued). I.45—Gramophone Records: by Maurice Ravel conducting: Bolero (Ravel) by the Orchestra of the Concerts Lamoureux, Paris. 3.0—Time, Weather and Exchange. 3.20—"The World on Gramophone Records "—an Excursion to Montserrat, with Explanatory Notes by Wilhelm Ziesemer. 4.0—Reading for Boys. 4.30—Talk: The International Swimming Competitions in the Diana Baths.

4.35 p.m.—Concert by the Alois Dostal Orchestra. Overture, "Die Felsenmühle" (Reissiger). Waltz, Frühlingsstimmen (Johann Strauss). Selection from "Hérodiade" (Massenet). Walter's Prize Song from "The Mastersingers" (Wagner). Two Songs from "Der Teufelsreiter" (Kalmán). Descriptive Piece, Die Post kommt (Eulenberg). Polka (Kling). Scenes from "Der Rastelbinder" (Lehár). Overture, "Die drei Wünsche" (Ziehrer). Waltz. Der letzte Tropfen (Kratzl). Waltz-Song (Hiess). Potpourri of Viennese Melodies (Komzak). March (Damberger).

6.20—Fanny Wibmer-Pedit reads from her own Works; Introductory Talk by Gisela Berger. 6.50—Talk: The Pirquet Tuberculin Reaction. 7.20—Time Signal, Weather Report, Sports Notes and Programme An-nouncements.

Sports Notes and Programme Announcements.
7.35—Pianoforte Recital by Tibor Szatnary. Variations on Bach's "Weinen und Klagen" (Liszt). Three Pieces from the Cycle "For Children" (Bartok). Slovakian Dance (Kadosa). Ruralia Hungarica, Nos. 4 and 6 (Dohnanyi). Marosszeker Tänze (Kodaly). Valse nobile (Schubert-Dohnanyi). Radio Play (Toller). 10.15—News Bulletin, Weather Report and Announcements. 10.30—Dance Music by the Adolf Pauscher Orchestra, with Vocal Refrains by Viktor Sternau.

WARSAW (Poland)

Polskie Radio, 212.5 kc/s (1,411 m.); 120 kW.

11.20 a.m.—Aviation Weather Report. 11.20 a.m.—Aviation Weather Report.

11.25—Interval.

11.45—Press
Review.

11.58—Time Signal and
Bugle Call from the Tower of
St. Mary's Church, Cracov.

12.5 p.m.—Programme Announcements.

12.10—Educational Programme, relayed from Ltobu.

12.45—Light
Music on Gramophone Records.

1.25—Weather Report.

1.25—Interval.

1.35—Variety Music on
Gramophone Records.

1.55—Interval.

Gramophone Records. 1.35—Value on Gramophone Records. 1.55—Interval. 2.45—Popular Music on Gramophone Records. 3.5—Economic Report and Exchange Quotations. 3.15—Answers to Correspondents on Military Questions. 3.25—Talk, relayed from Posman. 3.45—Hydrographic Report. 3.50—Programme for Invalids, relayed from Luów. 4.20—Talk on Contemporary Poland: The Polish Constitution. 4.40—Programme for Children. 5.5—Talk (to be announced). 5.25—Report on the International Tennis Match: Racing Club (Paris) v. Logya (Warsaw). 6.0—Service, relayed from Wilno. 7.45—Reports Notes. 7.45—Rogramme Announcements. 7.45—Sports Notes. 7.45—Radio Journal 8.0—

Announcements. 7.40—Sports Notes. 7.45—Radio Journal 8.0—"On the Horizon."

8.15—Concert of Light Music by the Station Orchestra, conducted by S. Nawrot. Soloist: M. Korska (Vocalist). Overture (Silvery). Oriental Fantasia (Helmburgh-Holmes). Boston from "Schön ist die Welt" (Lehár). Love's Awakening (Cadman). Flute Solo: Erste Liebe (Suppé). Air for Clarinet (Vollstedt). Three Songs. Potpourri, Tonwellen (Mannfred). Sword Dance (Poldini). Oboe Solo (Garimond). Three Songs. Waltz (Köñig). Bells across the Meadows (Ketelbey). Wedgwood Blue (Ketelbey). Waltz from "The Geisha" (Jones). Cracovicnne (Leopold). Mazurka (Cabella). 0.55—Feuilleton.

Geisha" (Jones). Cracovicnné (Leopold). Mazurka (Cabella). 9.55—Feuilleton. 10.10—Pianoforte Recital of Chopin's Music, by Mme. Rabecvicz. Variations in B flat Major, Op. 12. Waltz in A Minor. Op. 34. Etude in C Sharp Minor. Preludes : (a) in B Flat Major, (b) in G Minor, (c) in F Major, (d) in D Minor, Minor.

10.4c—Radio Journal, 10.45— Weather and Police Notes, 10.50— Dance Music, 12 midnight (approx.)—Close Down,

WILNO (Poland)

533 kc/s (563 m.); 16 kW.,

Transmits at intervals from 11.58 a.m

Transmits at intervals from 11.58 a.m. 7.0 p.m.—Review of the Week in Lithuanian. 7.15—Programme for Students. 7.30—Programme Announcements and Miscellaneous Items. 7.40—See Warsaw. 8.15—Request Gramophone Concert. 9.75—See Warsaw. 11.0—Humorous. Programme. 11.30—Dance Music on Gramophone Records. 12 midnight—(approx.)—Close Down.

ZAGREB (Yugoslavia)

Radioklub—Zagreb. 977 kc/s (307 m.) 0.75 kW.

(307 m.) 0.75 kW.

12.20 p.m.—Cooking Recipes. 12.30
—Popular Music on Gramophone Records. 1.30—News Bulletin. 1.40
—5.0—Interval. 5.0—Gramophone Concert of Light Music. 6.30—7.50
—Interval. 7.50—Announcements.
8.5—Medical Talk. 8.30—See Belgrade. 10.30—News and Weather. 10.40—Concert of Light Music. 11.0 (approx.)—Close Down.

Schedule of Advance Programmes

(STRICTLY COPYRIGHT)

For the benefit of traders who may wish to make arrangements for demonstrating, we are printing each week a schedule of the programmes to be transmitted by the National and Regional stations. It will be noticed that these schedules concern programmes to be transmitted a fortnight hence, and it is felt that they will also be of particular service to those of our readers living abroad who will be able to use them in connexion with the reception of the Experimental Short Wave Station, G5SW, which relays either the National (5XX) or London Regional programmes from 7 p.m.

News Bulletins are transmitted daily (except on Sunday) at 12.30 p.m. (Saturdays, 12.45), 6.15 p.m., and midnight.

SUNDAY, MAY 15 LONDON REG.

As National Light Music

EVENING PROGRAMME	Hotel Orch.	Orchestral Con.	As London	As London		
MONDAY, MAY 16						
	NATIONAL	LONDON REG.	MIDLAND REG.	NORTH REG.		
MORNING	Tango Orch.	As Midland Reg.	Cinema Orch.	As Midland Reg.		
AFTERNOON	Cinema Orch. Thicpval Mem. Unveiling	As North Reg. As Midland Reg.	As North Reg. Studio Orch.	Cinema Organ As Midland Reg.		
_	Hotel Orch.	As National		As National		
PROGRAMME	Talks Revue	Light Music Pianoforte Re- cital	Song Recital Military Band	Studio Orch. Band Concert		
2ND EVENING PROGRAMME	Orchestral Con. Dance Music	Military Band Opera Relay Dance Music	Gram. Records As London Reg.	Concert contd. As London Reg. As London Reg.		

TUESDAY, MAY 17

	NATIONAL.	LONDON REG.	MIDLAND REG.	NORTH REG.
MORNING	Cinema Organ	As North Reg.	As North Reg.	Orchestral Con.
AFTERNOON	Hotel Orch. Gram. Records- Sonata Recitals	As Midland Reg. As Midland Reg. As National	Ballad Concert Studio Orch.	As Midland Reg. As Midland Reg. Evensong
1ST EVENING PROGRAMME	French Talk Jack Payne's Band	As North Reg. Revue	Light Music As London Reg.	Band Concert
2ND EVENING PROGRAMME	Chamber Music Dance Music	Gram. Records Dance Music	Dance Music As London Reg.	Operatic Con. As London Reg.

WEDNESDAY, MAY 18

	NATIONAL	LONDON REG.	MIDLAND REG.	NORTH REG.	
MORNING	Cinema Organ	As Midland Reg.	Studio Orch.	As Midland Reg.	
AFTERNOON	Gram. Records Hotel Orch. Symphony Orch.	As Midland Reg. As North Reg. As National	Organ Recital As North Reg.	As Midland RegStudio Orch. As National	
IST EVENING PROGRAMME	Talks Relay from Covent Garden	Orchestral Con. Vaudeville	Play As London Reg.	Studio Orch. As London Reg.	
2ND EVENING PROGRAMME	Plays Dance Music	Orchestral Con. Dance Music	As London Reg. As London Reg.	Hotel Orch. As London Reg.	
THIPSDAY MAY 10					

IHUKSDAY, MAY 19

	NATIONAL.	LONDON REG.	MIDLAND REG.	NORTH REG.
MORNING	Scottish Studio Orchestra	Cinema Organ	As London Reg.	As London Reg.
AFTERNOON	Cinema Orch. Gram. Records Abbey Evensong Dance Music	As North Reg. As North Reg.	As North Reg.	Studio Orch. Orchestral Con. As National
IST EVENING PROGRAMME	German Talk Song and Piano- forte Recital	Light Music Orchestral Con.	Light Music Band Concert	Relay from Blackpool Studio Orch.
2ND EVENING PROGRAMME	Revue Dance Music	Opera Relay Dance Music	As London Reg. As London Reg.	As London Reg. As London Reg.
		Daniel Masic	1 113 London Neg.	73 London Reg.

FRIDAY, MAY 20

MIDI AND DEC

NATIONAL

	INATIONAL.	LONDON REG.	WIDLAND REG.	NORTH REG.
MORNING	Cinema Orch.	As Midland Reg.	Cinema Organ	As Midland Reg.
AFTERNOON	Organ Recital Gram. Records Studio Orch.	As North Reg As North Reg. As National	As North Reg. As North Reg.	Cinema Orch. Studio Orch. As National.
IST EVENING PROGRAMME	Talks Relay from Covent Garden	Military Band Plays	Concert Party As London Reg.	Organ Recital As London Reg.
2ND EVENING PROGRAMME	Opera contd. Dance Music	Orchestral Con. Broadcast to U.S A.	Organ Recital Dance Music	Theatre Relay As London Reg.

SATURDAY, MAY 21

	NATIONAL	LONDON REG.	MIDLAND REG.	NORTH REG.
ORNING	Studio Orch.	As National		As National
FTERNOON	Cinema Orch. Studio Orch. Cinema Organ	As National As National As National	Studio Orch. As National	As National As National As National
T EVENING ROGRAMME	Dance Music Vaudeville	Light Music Orchestral Con.	Military Band Dance Music	Band Concert Orchestral Con.
ND EVENING ROGRAMME	Light Music Dance Music	Chamber Music Dance Music	As London Reg. As London Reg.	Concert contd. As London Reg.

PREPAID CLASSIFIED ADVERTISEMENTS

Small advertisements for WORLD-RADIO are inserted in the nearest issue after the receipt of order, and cannot be accepted for any specific date. The cost for a single insertion is 4/6 per line (exerage 8 words), with a minimum of 3 tines. Box numbers 6d. extra. ¶Series Discounts 2½% on 13 insertions, 5% on 26 insertions, 10% on 52 insertions. ¶All small advertisements should be accompanied by a remittance and the full name and address of the advertiser clearly written, and must reach the office not later than Friday of the week prior to publication. Voucher copies are supplied for announcements of 10 lines or over. ¶In the case of box numbers readers should reply to the box number mentioned in the advertisement, clo Advertisement. Department, World-Radio, Broadcasting House, Portland Place, W.1.

ACCUMULATOR SERVICE

I.T. Accumulators Correctly Charged by Specialists, also complete H.T. and L.T. Hire Services. Express delivery over wide area—Aneloy Radio, 36, Hindmans Road, East Dulwich. 'Phone: New Cross 4074. Charging Contractors to Camberwell Council and Official Oldham Service Station.

CABINETS

CET yourself a Smithcraft Cabinet—the Cabinet backed by 15 years of specialised experience. Every Cabinet embodies specially selected timber, is modern in design and polished by hand. Pedestal or Table models for every purpose—from £1 15 o to £5 17 6. Send for further particulars.—SMITH'S CABINETS, 18-20, Hertford Rd., N.1. Telephone: Clissold 3725.

MAKE your set look worth double its cost by fitting it in an Osborn Cabinet, which you can assemble yourself. An Osborn cabinet can be obtained in three ways: (1) Parts machined and finished ready to assemble; (2) Machined, finished and assembled ready for polishing; (3) Assembled and perfectly polished. Send 3d. in stamps for new 1932 beautifully illustrated catalogue.—Chas. A. Osborn, Dept. W.R., Regent Works, Arlington Street, London, N.I.

COMPONENTS

ITS; Journal, or manufacturers. Every kind; complete or part. Sets: A.C., D.C. or Battery, every kind. Components, Valves, Eliminators, Batteries. Catalogue 147 pages. 752 illustrations. 1/- Traders supplied.—Perseus Radio, W.R., Burton-on-Trent.

MAINS and local INTERFERENCE from Electric Motors and Domestic Appliances can be silenced! Why tolerate interference any longer when by fitting a "Power Link" Compensator to the interference producer you can obtain and enjoy a perfect background to your reception. Send P.O. 7s. 9d. (post free) now or write for descriptive leaflet to: Dept. W.R., J. H. Weedon & Co., 26a, Lisle Street, W.C.2.

ALL AMATEURS have components, speakers, etc., which they have no further use for. Why not advertise these on this page and dispose of them? For cost of a small advertisement see top of this page.

NCREASE Range, Strength and Selectivity. New Design Coils, Dual Range, 4/6. Band pass 9/- pair. Formers 2/6. The Inductance Co., West Street, Southport.

H.T. SUPPLY, Etc.

CHARGE YOUR BATTERIES AT HOME—SAFELY AND QUICKLY. Why incur trouble, expense and waste of time by taking your accumulators to a service station? Just instal the Heayberd Trickle Chargers and do the job quicker, cheaper, and neater yourself. Incorporating a Westinghouse Rectifier complete in crystalline steel case. Model A.O.2. Trickle Charger, charging 2, 4 or 6 volts at 1-2 amp., price 35s.—Send 3d. in stamps for lists, giving full range of Heayberd Mains Kits, Chargers, Transformers, etc., with wiring diagrams of great interest: Heayberd, 10, Finsbury St., London, E.C.2.

EXCHANGE

PART Exchanges. Your old-fashioned set or loudspeaker accepted in part exchange of any new set, radiogram or loudspeaker. Chas. H: Rodwell. London Bridge, S.E.z.

RECEIVERS FOR SALE

ARP you requiring a D.X. Portable? We can offer you the well-known Philips 4-valve S.G. Portable Type 2522 (List price 24 guineas), our price £8 8s., guaranteed. This receiver is an H.F. Detector 2 L.F. Receiver absolutely complete and self-contained, working over 200/600 M. and 1000/2000 Metre band. Send cash with order or C.O.D.: Dept. W.R., Radio & Gramophones, 245, Tottenham Court Road, London, W.I.

THE latest in quality Radio-Grams—4 stage A.C. sets Band-pass tuning. 2 Varimu's. 2 watts output and M.C. Speaker in walnut cabinet with Marconi pick-up. 38 gns.—For full details write F. E. Godfrey (Radio), Ltd., 4, High Street, Hampstead, N.W.3.

STARTLING Reduction during sale of the famous "International" Super Selective 3 valve Set in Oak Finished Cabinet. Reduced from 459. to 358. each. The "International" 3 valve Set employs Dual Range Tuning for Long or Short Waves, Super Detector and 2 stages of L.F. Amplification. Tunes Foreign Stations with ease. Full particulars and List: Universal Electric Supply Co., Ltd., Dept. W.R., 4 and 8, Brown Street, MANCHESTER.

REPAIRS

REPAIRS to Blue Spots 5/-. Loud-Speakers, Headphones and Transformers, 4/- each. Mains and Eliminators quoted for. Prompt service. 12 months' guarantee. Trade invited.—Loud Speaker Repair Service, 2, Shipka Road, Balham, London.

FOREIGN LANGUAGES

"BRUSH up your French." Holidays abroad are doubly delightful, the foreign broadcasts have a new meaning and business offers fresh opportunities to those who speak other languages. Set of 5 records with album and text book in French and English of the famous French conversations recorded by Linguaphone for the "D. Mail," also "Brush up your German" or Italian. Send P.O. 21/- to Linguaphone Institute, 680, Napier House, High Holborn, W.C.1, stating language required.



—and cut out local and powerful stations that spoil your reception of foreign concerts. A PIX increases the selectivity of any set, and is better than a costly vave trap.

wave trap.

No alteration to sets needed, over 750,000 satisfied users testify to the efficiency of the PIX.

A PIX can be fitted to any type of set whether crystal, battery or mains operated with or without outside aerial. Just undo the wire from the aerial terminal and connect same to one end of the PIX and join the other end to the aerial terminal.

Read a typical letter from a purchaser :-

"Dear Sirs,

A few days ago I purchased one of, your "PIX" and I am more than delighted with the results It gives. It is the finest 2/- I have ever spent, it improves the tone superb, no matter what Station you listen to "PIX" holds It firm and you need never fear of other Stations "butting in " and spolling the programme you wish to hear, either British or Foreign."



YOUR MONEY REFUNDED

at once unless you are thoroughly satisfied. Get the PIX from your Wireless dealer or send P.O. to

STAND 350 IDEAL HOME EXHIBITION APRIL 5-30

BRITISH PIX Co. Ltd. (Dept. 183), 14, Newgate Street, London, E.C.1.

Telephone: City 1044 (10 lines)

SITUATIONS VACANT

A IRCRAFT & RADIO ENGINEERS WANTED: also employment is waiting for skilled DRAUGHTSMEN, Eng., Elec. Blg., Motor, also ENGINEERS, all branches. Let us tell you where the appointments are and how to qualify for same. There are examinations which are open and suitable to you and others which are not. We never accept students for unsuitable courses. We teach by post. GET OUR ADVICE BEFORE DECIDING. Our advice on all careers Free.—THE BENNETT COLLEGE, Dept. 69, SHEFFIELD.

LOUD SPEAKERS

DERMANENT M.C. Loudspeaker at 39s. 6d. complete with Multi-Radio O.P. Transformer. The Dreadnought has Super Magnet, Precision centering, Matched Transformer, with baffle board ready for fixing in your cabinet. Ideal for Kit Sets. Fully guaranteed. Post Free or C.O.D. by return, Dept. W.R., Goodmans, 69, St. Jbhn Street, London, E.C.1.

THE whole truth with Motor Loudspeakers, Units, Chassis.
Your sets get the programmes you want to hear, but your speaker determines what you hear. It takes a Motor Loudspeaker to give you the best results from your set. Motor Units 58, 23/6; /4 (Super Power), 27/6; S9 Double Magnet Super Power, 35/-; Hear them at your Dealer's. Catalogue from Takade Radio & Elec. Ltd., 147, Farringdon Road, E.C.I.

RADIO IN EVERY ROOM. Why confine your loud speaker to a single room when you would often like it in another part of the house? Run a twin wire to each room, fit a Bulgin Wall Jack—then plug in wherever you want. Bulgin Jacks can be fixed to the wall, skirting board, or mantelpiece. A variety of finishes to harmonise with existing decorations.—Send 2d. postage for the Bulgin 75-page illustrated catalogue and manual: A. F. Bulgin & Co., Ltd., Abbey-Road, Barking, Essex.

SPECIALISED TRAINING

EARN Dutton's 3-day Shorthand. Only 6 rules, 29 characters. Speed practice by loud speaker. Send stamp for specimen lesson.—R. W. R. Dutton, Reporter, Skegness.

A PROFITABLE PASTIME!—Spare-time writing for the papers can be both pleasant and profitable. Send for FREE LESSON and PROSPECTUS, with details of our unique Success Guarance, to Dept. A.4, London Editorial College, 12-13, Henrietta St., W.C.2.

A DVERTISING is the money-making proposition that always has vacancies for capable men and women. Write for particulars FREE. British College of Advertising, 150, Wheatsheaf House, Carmelite Street, London, E.C.4. Central

A FILM CAREER.—Adults and Children can be trained for a lucrative and pleasant career. Facilities are available for tuition in microphone and camera technique, etc., at a modern fully equipped film studio. FREE tests are given to ensure suitability. Write for appointment: Casting Director, British School of Talkie Technique (Licensed by L.C.C.), 72-86, Oxford Street, London, W.I.

SHORT-WAVE APPARATUS

A N All Wave Receiver, "The Kilodyne Four," tunes from 12 m.-2000 m., incorporated S.G. H.F. Amplification, absolutely no hand capacity, perfectly smooth Reaction, one dial tuning, made by Short Wave Specialists. Kit of parts with blue prints, leads, grid bias battery, coils for 12-85 m., not including valves, £6 17s. 6d. Write for list.—Stratton & Co., Dept. W.R., Bromsgrove Street, BIRMINGHAM.

TELSEN Short-wave Superheterodyne Converter. Complete kit, including drilled panel and baseboard, 27/6. We guarantee results. Send four penny stamps for full particulars, wiring chart, and operating instructions.—Short Wave Radio Co., 63A, Kingston Road, New Malden, Surrey.

THE "Scientific" Detector-Adaptor converts any set into THE "Scientific" Detector-Adaptor converts any set into a short-wave receiver in a moment. Inexpensive and casy to build from Standard Components. Send 4d. for Blue Print with full details of this adaptor: Dept. W.R., Scientific Supply Stores, 126, Newington Causeway, Elephant and Castle, S.E.I. Telephone: Hop. 4177.

MISCELLANEOUS

SPRINGTIME is Sportstime. For genuine bargains in Tennis Rackets, Clubs and Balls write for lists. Chas. H. Rodwell, London Bridge, S.E.I. (and branches).

W/IRELESS LEAGUE.—Every listener should join this annually covers Personal Service by Experts throughout descriptive booklet from Headquarters: 12, Grosvener Crescent, London, S.W.1.

CITY TYPEWRITING BUREAU, 194, BISHOPSGATE, LONDON, E.C.2. Prompt and Accurate Service. Typewriting (All Branches). Duplicating, etc. 'Phone: Bishopsgate 1805.

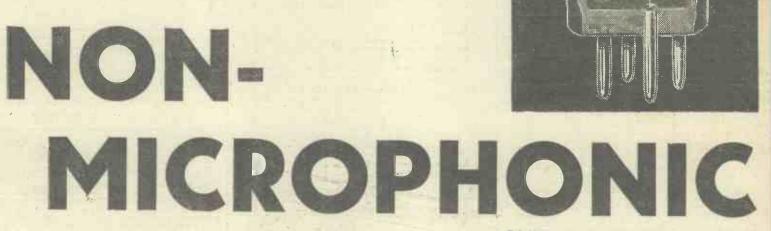
MOTOR TYRES. Brand new, Guaranteed 12,000 miles. All sizes from 26 x 3.50 at 16/6, 27 x 4.40, 22/6, to 31 x 5.25 at 38/-. All tyres despatched on 7 days approval against remittance or C.O.D. if preferred. Prompt Despatch. Write or 'phone for best prices.—New Era Rubber Co., 8, Coleherne Terrace, Earls Court, London, S.W.5. 'Phone Flaxman 8774.

OLD—Bentley & Co., 9, New Bond Street, London, W.1. who are Bullion Dealers to the Banks, pay highest prices for Gold, Silver, Precious Stones, etc. Forward by registered post and Bank Notes sent by return.

PLEASE MENTION WHEN REPLYING TO ADVERTISERS WORLD-RADIO

Multi-point Filament Suspension Mica Bridge Mounting

— the two vital constructional features that make COSSOR Valves—



prevented in every Cossor Valve.
Firstly by Cossor multi-point suspension—a system of construction which provides as many as four extra filament supports thereby eliminating all tendency to filament vibration.

Secondly by Mica Bridge Mounting, the Cossor

constructional system under which all the elements are rigidly braced together in permanent alignment preventing individual movement, and vibration of the elements.

Thus, no part of the valve structure vibrates.

And since vibration is the cause of micro-

phonic noises it follows that Cossor Valves

are proof against this trouble.

A copy of the 72 page Cossor Wireless Book B11 will be sent you free on application to A. C. Cossor Ltd., Melody Dept., Highbury Grove, London, N.5.

Get one of the new Ccssor Station Charts price 2d. Ask your dealer for a copy of this useful novelty or write to us enclosing 2d. stamp.



A. C. Cossor Ltd., Highbury Grove, London, N.5. Depots at Birmingham, Bristol, Glasgow, Leeds, Liverpool, Manchester, Newcastle, Sheffield and Dublin