

WIRELESS WEEKLY

Broadcast Programmes a Week in Advance

VOLUME 10

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NUMBER 26



Friday, October 21, 1927.

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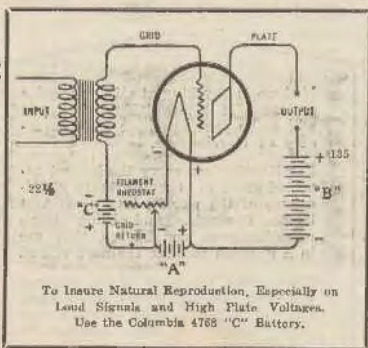
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WIRELESS WEEKLY

VOL. 10, No. 26.

FRIDAY, 31st OCTOBER, 1922.

The Washington Radio Conference—will it affect Australia?

A WORLD conference is sitting at Washington discussing radio legislation problems. Representatives of 51 countries have assembled under the presidency of the well-known Mr. Hoover, head of the Department of Commerce. Australia is represented by Mr. H. P. Brown, director of the postal services.

The conference is a very important one, and the discussions are expected to last six or eight weeks. One may wonder what can occupy the delegates for such a long time, and it is interesting to see how we are likely to be affected by the conference decisions.

The object of the Conference is to draw up a code of laws for the regulation of all kinds of radio activities in every country. That is so far as all countries are concerned. The domestic problems of individual countries will not be legislated for at Washington. Those problems will be left for the local legislatures.

But there are many phases of radio that are international in character. The use of radio by ships and the conditions under which the S.O.S. signal should be used and obeyed, for instance, must have a common and well known basis in all countries. Thus the captain of a ship of any country in any ocean near any territory knows that the approved means of calling for assistance in time of distress or danger will meet with a ready response.

This S.O.S. call procedure was the cause of the first international radio conference which was held in London in 1913. That conference dealt with radio in all its phases then known. But there was no broadcasting in those days. Thus the laws agreed to in 1913 are either obsolete or incomplete for present day practice.

The important aspect will be the apportioning of wavelengths for broadcasting and for other purposes. Different services such as ship transmission, aircraft transmission, broadcasting service, etc., must

have certain wavelengths set aside so that interference will not result. For instance, the wavelength of 600 metres is reserved for the use of ships—it cannot be used for broadcasting. The necessity is manifest, therefore, for a common international understanding on the points.

There has been no understanding hitherto on the question of broadcasting wavelengths. Hence there is nothing to prevent adjacent countries using the same wavelengths, to the confusion and disadvantage of the services in the respective countries. Such an undesirable state of affairs has actually occurred already between Canada and the United States and in Europe.

In Australia we are in danger of similar confusion, unless there is some international understanding on the point.

We have already experienced interference in the reception of 3LO Melbourne by a station in Japan using a wavelength nearly the same as that used by 3LO Melbourne. And there is nothing to prevent New Zealand using wavelengths similar to or nearly the same as those used by Australian stations.

That will be the subject that will interest Australian broadcast listeners most. Both in the local services and in the short wave international broadcasting will the conference decisions be of considerable interest.

It would be a serious matter if our wavelengths were to be altered. But there does not appear to be any danger of any radical changes. Probably that is one reason why the authorities have not yet made the very desirable changes in separating the wavelengths of some stations that are now too close to be really satisfactory.

There are many more subjects concerning commercial and experimental wireless, on which the decisions of the Conference will affect Australia, but probably the question of wavelengths for broadcasting is the most interesting.

Catching Up with the Wireless World.

By R. E. CORDER.



THE LATEST estimate puts the number of wireless licence-holders in Japan at 30,000. A monthly fee of about 2/- is charged on each receiver.

UNTIL APRIL 1 of this year there were 180,805 radio receiving sets in Denmark. This figure represents an increase of 60 per cent. over the number of sets of the same period last year.

THE B.B.C. engineers at Keston some time ago tried an interesting experiment for overcoming the fading trouble often experienced with short-wave broadcasts from America. Two of these stations happening to be transmitting the same programme on different wavelengths, which were both received by Keston, united and retransmitted, with the result that the fading effect was almost entirely eliminated.

A STORY from Cincinnati relates how in the days when broadcast stations were liable to jam one another, the song of a star tenor broadcast from New York was intermingled with a piano solo from a local station. Musical "highbrows," however, accepted the combination gladly, imagining that the Cincinnati pianist was playing the correct accompaniment to the tenor's song, and were ravished with this masterly example of polytonality.

THE FIRST OFFICIAL attempt to speak by wireless telephony from Berlin to Buenos Aires, a distance of about 7000 miles, was satisfactorily accomplished on August 3rd. If the results of the tests continue satisfactory, it is intended to establish a public service as soon as the necessary equipment has been installed at Buenos Aires.

It may be of interest to recall to our readers the full and picturesque title of the Federal capital of Argentina: Ciudad de Santissima Trinidad y puerto de Nuestra Señora de Buenos Aires, meaning "the city of the most sacred Trinity and port of Our Lady of favorable breezes."

RADIO INSTRUCTION will be made part of the regular curriculum in Denmark's schools through co-operation of the Education Department and the Radio Control Board.

WITH THE OPENING of a new beam station at Lorenzo Marques, Portugal, that country now has six stations in one chain. The five other stations are at Lisbon, Madeira, Azores, Cape Verde and Louanda.

FROM a wireless point of view, Chicago may pride herself on being the noisiest place on earth. The U.S. Ninth Radio District, with Chicago as its headquarters, contains 233 active broadcasting stations out of a total of 694 throughout the States.

IT IS STATED that the musical instruments used by one of the bands whose dance music is broadcast by WJZ, New York, are valued at 11,550 dollars, including nearly 4000 dollars for saxophones and allied instruments, and nearly 2000 dollars for the percussion instruments. We wonder whether the resultant noise is really worth this extra expense.

ALL CHINESE owning radio receiving sets must register at one of the government offices in charge of broadcasting. All sets must be purchased at licensed shops.

THE STORY TELLERS of old, whose line still survives in the Orient and the near East, are facing starvation since their "customers" have turned to radio. They've formed a federation to defend their interest against their new enemy.

THE FEDERAL RADIO Commission of U.S.A. has issued an edict against broadcasting of mechanically produced music, unless it is so announced to the fans. Since few broadcasters would reveal this fact, fans may be assured of little such music.

"WHAT! NO PATIENTS?" Under this caption the "New York Times" to-day remarks on the fact that for the first time in years a week has passed without the issue of a radio patent. This fact, perhaps more than any other, is significant of the approaching stability of the radio trade. On the other hand there is now a great and ever-growing incentive to inventors to evolve a set which will not need the protection of the R.C.A. patent umbrella; our New York correspondent recently heard a very successful demonstration of a set for which this was claimed.

IN THE PAST YEAR people all over the country have advanced remarkably in their ideas about radio. The call for sets that will get distance has all but disappeared, but the desire for "tone" has materially increased. So when you are purchasing a multi-valve set be careful to see that you buy all round performance, rather than just distance and selectivity alone. One receiver that you should hear before buying is the Atwater Kent, a comparatively new arrival in the Australian wireless world, but it is America's most popular receiver. It will be worth your while to hear the clear, true tone of these compact little sets.

THE SYNCO-BOYS AT 3LO.

(By Ruby Sykes Lyon.)

The world is full of ups and downs,
Of happiness, and pain;
The days we want the sun to shine
It always seems to rain;
But, though the rain in torrents falls,
And life is full of wee,
Why, nothing matters, when we tune
The "Synco-boys" and Joe.

Who has not heard the "Ice-man's" call,
Came ringing o'er the air;
Or heard the "Doll-dances" up the keys
To see "The Animal Fair;"
Or "Gimme Just a Little Kiss"—
Is living far too slow—
When trouble hits you, smile, and tune
The "Synco-boys"—and Joe.

For you, of highbrow cultured taste
Who scorn the jazz-mad rows,
And, if you listened to such noise,
Would wrinkle up your brows;
To you, I give this good advice
Because you ought to know—
You'll hear the "Classics," if you tune
The "Boys"—at 3LO.

EMPIRE BROADCASTING

Special Statement by Capt. P. P. Eckersley, Chief Engineer of the B.B.C.

I HAVE been invited by the Editor of Wireless Newspapers Limited to contribute some observations on the subject of Empire Broadcasting.

It is believed by many that the partially successful re-broadcasting of American and Dutch stations indicated that in a few months' time a regular service will be instituted on a certain guaranteed basis.

Personally, we in England believe that the short wave link, although giving great potentials of success is not yet effective to such an extent that an engineer can give even a minimum guarantee of service. It has got to be remembered that before an engineer will put a service into being, he has to be assured of some guarantee to those whom he serves. This, I think will be admitted by all. A telephone exchange would not be started in Melbourne if every call in five was ineffective, if no guarantee could be given, if speech was at times unintelligible, at other times good. On the other hand, it might be quite possible to install a telephone service if it could be guaranteed that on every night between 9 and 10 o'clock communication between any two subscribers would be perfect. That would be a minimum guarantee. Those requiring a telephone service might argue, however, that experimental work should be undertaken. They would be quite right. Would that experimental work, however, be concerned in installing a telephone service with no guarantee? If the problem, shall we say, lay wholly in the question of installing suitable cables, would it be right to do the experiments by putting a telephone in everybody's house? For a time, possibly the amusement of being able to talk, or not, to one's friends might give a certain popularity to the system, but I doubt if any financier would put any large sum of money into such a venture without being assured of future success.

It is exactly the same with Empire Broadcasting. No one believes more than we do that this development of wireless must come about in time, no one realises more than we do the enormous potentials that underlie the establishment of such a service. It is the very magnitude of the conception underlying the establishment of a satisfactory link between the Mother country and the Dominions and Colonies that makes us hesitate to do anything unless some guarantees of service can be given.

The problem, unfortunately, lies wholly in reception and not in transmission. There is nothing that can be

done to the transmitter which will make the received broadcast better, except possibly by raising the power up and up to extravagant limits, and even then it is a foolish way of approaching the problem. Large scale reception experiments of different sorts are being undertaken in England and America to-day, and directly some signs of being able to guarantee a service are forthcoming, then, and then only, do we feel ourselves justified in erecting a transmitter. We should then naturally communicate our results as to reception to the Dominions and Colonies so that engineers there may take account of the work that has been done. It must be remembered that in 1923 we re-broadcast American programmes in this country, and that they were hailed with enormous enthusiasm. To-day the standard set by local broadcasting has diminished the value of remote and distant programme, as their excellence can in no way compete with the local. The only factor which re-

commends the occasional relay from America is the "romance" factor, but this factor only will not make a satisfactory basis for a service. We are working and experimenting on the thing that matters, and we are not being induced by popular clamour to take a step which in no way contributes to future success.

The only difference between our critics and ourselves seems to lie in the matter of time. It is a question of the "when" and not the "how." We think it better to wait awhile than to start any service upon the basis of minimum guarantees.

If the progress of the experiment could be furthered by erecting a transmitting station, we should have done this long ago. If it appears that our knowledge will be increased by the erection of a transmitter, it will be done. We see no object in giving half results on the basis of half measures. The problem lies in reception. Let us hope it will soon be solved.

Marcuse's Side of the Question.

Reprinted from "Popular Wireless."

DURING the last eight months I have been pretty busy, planning and building what I consider to be an ideal experimental station for short wave transmission and reception.

As everybody knows, a few months ago the Hindoven station in Holland (PCJJ) came very much into the limelight as a result of a number of highly successful short-wave transmissions, which were undoubtedly heard in numerous distant parts of the world.

And when B.I.O.'s programme was successfully relayed one day, and was heard in many parts of the British Empire, the public began to ask why it was that Britisheers abroad had to rely on a Dutch station in order to hear British programmes broadcast from the Old Country.

And a very natural question, too. In consequence, the B.B.C. was urged to "get busy" and erect its own short-wave station for the purpose of Empire broadcasts. Argument resulted, and in the end a flat refusal to answer this demand in accordance with what the B.B.C. has since declared to be "an sound and premature proposal."

It is not my intention to criticise the B.B.C.'s policy since it made the above reply. I understand that the B.B.C. has declared its intention of "playing its rightful part in the development of Empire Broadcasting," and that Captain Eckersley and his associates have evolved a scheme which, although it may take some time to mature, will, no doubt, result in a system of short-wave transmission and reception in connection with Empire Broadcasting.

But as the public, and especially the British Dominions public, seem very anxious that Britain should begin a series of Empire broadcasts—however

experimental—without further delay, and as experiments I have made, extending over the last two years have been very successful, and further, as I have had so many requests from people urging me to "start something" in the way of short-wave broadcasts, I have applied to the Post Office for the approval of a skeleton scheme for carrying out extended tests on wavelengths of 33 and 27 metres.

The Post Office, after due and careful consideration of this scheme have now given me their approval.

TWO HOURS A DAY.

The scheme, in brief, is as follows: That I transmit for two hours on any day, for six months, using 1 kw. to the main valve, on 33 or 27 metres, on the understanding that I do not broadcast current news or matter of an advertising nature.

Of course, it would have been much easier for me had the B.B.C. been willing to join in with my tests, and had it taken advantage of any offer to use my station to relay its programmes.

The only reason which prompted me to make this offer was purely from an experimental point of view, and with the sole object of testing the possibility of giving to interested listeners in distant parts of the Empire, a taste of the broadcast fare provided by the B.B.C. in the Old Country.

Judging by the enormous number of telegrams, cables, and letters, which arose from this offer, my scheme met with enthusiastic support and interest.

However, it was not to be, for the B.B.C. was not agreeable to my proposal, and in consequence, lacking its collaboration, I have had to arrange for my own studio and artists—and at no little cost.

America's Submarines all use Burgess.



The Safety Valve

Readers are urged to express their opinion on matters pertaining to broadcasting. If you have some grievance, if you have some constructive criticism to offer, here is your chance for expression—your safety valve. The editor assumes no responsibility for statements made by readers and published on this page, as opinions of correspondents do not represent our editorial policies or beliefs. Anonymous letters are not considered.

Dear Sir,—I would like to support the idea expressed by Mr. R. F. Headon ("W.W.," 23/8/27) with regard to the devoting of a page to the comments of readers on the sets they have constructed from details published in "Wireless Weekly."

I do NOT, however, advocate particularly the conversion of the "Safety Valve" page for this purpose. If some get pleasure, or relief (and they apparently do) from its use, well, by all means continue it.

But could not a page be set aside for constructors to tell their experiences? This I am sure would prove interesting and instructive to all readers, particularly to those who contemplate building any particular set described, and would enable them to gauge the real worth of the set, under other conditions.

I would also suggest that there be included at the foot of the page a form to be filled in and forwarded with each contribution certifying that only facts have been given. I do not for one moment mean to suggest radio enthusiasts are liars—far from it; but I think you will readily admit that we radio "fiends," when we build our own sets, are, like fishermen, prone to be "carried away," and more often than not, when "wound up" in a description of the "wonderful set," we unwittingly exaggerate.

Yours faithfully,

VICTOR SIMPSON.

Cooran, Queensland.
8/10/27.

"B" CLASS RECEPTION.

Dear Sir,—Mr. Marcus S. Oliver ("Wireless Weekly" 7/10/27) makes some sweeping assertions about the stability of wavelengths and the efficiency of stations. Maybe certain stations are not received well in his locality, but when he complains about the wavelength of 2GB swinging 20 degrees, etc., he must be either the possessor of a remarkable aerial or a remarkable receiver.

Although situated only about half a mile from 4QG, I have no difficulty in tuning in 2GB. When 2GB is tuned in, no further adjustments of the set are necessary, the wavelength remaining perfectly constant. Listening to this station, as recently as a day or so

ago, the volume and clarity were excellent, practically equalling that of 2FC or 2BL. A Wednesday night church service, from 2GB, which I heard some weeks ago, was for clarity, the best I have heard from any station, almost every word of both hymns and prayers being easily distinguished.

Mr. Oliver complains about 2GB's speeches. In the Radio Section of the Brisbane "Daily Mail" of October 1st, a paragraph, dealing with radio lectures, states that 2GB received a report from a listener in a Victorian town who enjoys 2GB's lectures so much that he even takes notes of them!

A few years ago, I heard 2CM remark, in referring to the reception of his Sunday night concerts, that provided he received one reliable good report, he knew that his transmission was not to blame for the indifferent or bad reports furnished by others. 2GB is not always up to standard, and I experience a good deal of fading, am I justified in classing it as the worst of the "B" class crowd?

Let the average eastern state set owner list the stations which he can be sure to receive, with any strength. I am afraid that the following will not be greatly added to:—4QG, 2FC, 2BL, 2GB, 3LO, and 3AR. All the "E" class stations, with the exception of 2GB, are conspicuous by their absence.

Honour to whom honour is due, in my opinion, 2GB equals an "A" class station, in many respects, and is undoubtedly the best "B" class station in Australia.

Yours, etc.,

ROBERT ELLIOTT.

Brisbane.

RECEPTION AT ROMA.

Dear Sir.—Mr. F. E. Smith, of Roma, Queensland ("W.W.," 15/7/27), says he has 3 to 8 valve sets on hand, and cannot tune in even 4QG in daylight on a five valve. I was in Roma from June 20 until July 12, 1927, and the following figures are extracts from my logging book for that period. The reception was on "The Hale Two" ("W.W.," 17/6/27), built by me before I left for Roma. It was only roughly

wired with 22 gauge cotton-covered-copper wire as I had only a short time to build it in. I had no time to make a frame aerial, so I used an outdoor aerial, about 80 feet of ordinary copper aerial wire swung from a pole 15 feet high, and led straight into the set.

Two Mullard Valves of the PM2544 volt type, and Burgess Batteries were employed.

The following are the extracts of my reception from day to day during my stay in Roma:

- 20th June, 2BL, Sydney: Good, after dark.
- 20th June, 2FC, Sydney: Very good after dark.
- 20th June, 4QG, Brisbane: Good 'phone strength at 4 p.m.
- 20th June, 2GB, Sydney: Good after dark.
- 20th June, 3LO, Melbourne: Could not be picked up at all.
- 21st June, 2BL, 2FC, and 4QG: Very good (no fading).
- 21st June, 3LO, Melbourne: Very faint, although audible.
- 22nd and 28th June: All above stations were received at good strength, but static was bad.
- Station 4QG, Brisbane, was received every day from 20th June to 10th July at 4 p.m.
- 29th June, 2FC: Good; slight fading now and then.
- 29th June, 2BL: Good; no fading.
- 29th June, 3LO, 4QG, 2GB: Very good.
- 30th June to 6th July, 2FC, 2BL, 2GB, 3LO, 4QG: Excellent. Every station very clear.
- 7th July, 2FC, 4QG, 2GB: Very good.
- 7th July, 2BL and 3LO: Good, but fading terrible.
- 8th and 9th July, 2FC, 2BL, 3LO, 2GB: Very good (with static).
- 8th and 9th July, 4QG: Modulation very bad.
- 10th to 12th July, All stations (except 2GB) very good. 2GB dropped out altogether.

Hoping that these extracts will be of interest to the respective stations as well as our friend Mr. Smith.

Yours, etc.,

MASTER V. SWANSON.

South Coast Line.

It's All in the Air

Coming Features in the
Broadcasting Programs

ROYAL NORTH SHORE HOSPITAL: To augment the funds of the hospital, a concert will be held in the Arcadia Theatre, Chatswood, on Sunday afternoon, 23rd October, commencing at 3 p.m. The Arcadia Theatre Orchestra will play, there will be solos on the Wurlitzer organ, and the associate artists will be Elsie Peerless and Norman Janson. The entertainment will be broadcast by 2FC.

RYDE HOME FOR INCURABLES: The proceeds of the concert to be held in King's Hall, on Tuesday evening, 25th October, will be devoted to this worthy object. Assisting artists are Daisy Richards, Mabel Batchelor, Lawrence Macaulay, Peggy Dunbar, Harold Hickey, and Wilfred Thomas. 2FC broadcasts the function.

"TENTION, 2FC LISTENERS!: Your old favorite, Jack Lumsdaine, will be in the studio again on Tuesday, 25th October. Would you like a special request number? Well, a little bird whispers if you ask him nicely, he will do it for you.

ORGAN MUSIC: On Wednesday night, 18th October, 2FC has arranged to broadcast a recital from the Fullerton Church, Surry Hills, on the occasion of the installation of the new organ. A very enjoyable programme has been arranged, which will commence at 7.45 p.m.

MUSIC CLUB CONCERTS: The entertainment held at the Peace Memorial Hall, Rose Bay, under the capable direction of Mr. Oliver King, on the third Wednesday in each month, offers a decided attraction to Sydney music lovers. The programme on 19th October will, as usual, be broadcast by 2FC.

WHEN ARTISTS UNITE: Listeners naturally get double the enjoyment. Shirley Cooke, that vivacious little entertainer, and Harry Whyte, prince of novelty pianists, have collaborated, and the result is a really clever act, full of sparkle and "pep." They are both regular 2FC artists, and will appear in the studio on the evening of 19th.

"THE FLAG LIEUTENANT": The prodigious and orchestral music to the latest release from the Prince Edward Theatre will be broadcast by 2FC on Saturday night, 22nd October. Mr. Albert Casaban, the new director of the orchestra, wrote the music for this remarkable production.

In broadcasting the next big World's Athletic event, the Olympic Games, 28th (Sydney) has entered into complete arrangements with P.C.J.L. (Holland) to supply a description of all the events for the World's Championship Title in the big fight.

Australians were interested impersonally, but in the Olympic Games Athletes from all over Australia will be testing their mettle at this World's meet.

Country people will be able to sit in their homes and listen to thrilling descriptions right from the scene of the games. 28th is to be congratulated in its enterprise in the projected broadcast of the 1928 Olympic games, which will be held this year at Holland.

MANZONI'S HAWAIIAN BAND: Signor Oreste Manzoni came to Australia after touring the world for some time and organized what has now become popularly known as Manzoni's Hawaiian Band—an excellent combination of musicians. Signor Manzoni and his band are broadcasting with considerable success from 3LO, Melbourne. The band is particularly well balanced for broadcasting, and the charm of the guitar and other steel instruments appeals to listeners in that fascinating way peculiar to the haunting Hawaiian music.

"WIZARD OF THE MANDOLIN": Signor Manzoni himself is a mandolinist of world-wide repute, having played with outstanding success on the concert platform for many years. He gets from that instrument wonderful melodies which hold his audiences spellbound with surprise. He does not stop at playing the usual round of popular numbers, but essays the interpretation of classical works which are thought by most people to be quite unsuitable to the mandolin. It is no wonder, therefore, that critics refer to him as "the wizard of the mandolin."

RECORD COUNTRY BROADCASTS: October promises to be a record month for country and interstate broadcasting by 3LO, Melbourne. Warrackabeal, Horsham, Ballarat, Bendigo, Geelong, Echuca, Shepparton, Benalla, Colac, Warrnambool, Port Fairy, Camperdown and Sydney have had either concerts, speeches, races, sports, elections, or descriptions of events broadcast, and some of those centres will have been put on the air, so to speak, for the world to hear as many as four times, and it is possible that other country broadcasts will be arranged before the end of the month. Verily 3LO, Melbourne, is living up to its policy of decentralisation of operations as far as practicable.

HENLEY REGATTA: Norman McCance is going to describe for broadcasting by 3LO, Melbourne, the great Henley Regatta on Saturday afternoon, October 22nd.

MOONEE VALLEY CUP: This classic event will be described by "Musket" and broadcast by 3LO, Melbourne, at 4 p.m., on Saturday, October 22nd.

THE ORDINANCE OF BAPTISM: A special service at the Collins Street Baptist Church will be broadcast by 3LO, Melbourne, on Sunday evening, October 23rd. Madame Ella Kingston is to be the soloist.

WHITE ARMY TENOR: Senya Shostakov, the soloist of the famous Don Cossacks' Choir, is to sing at 3LO, Melbourne, on Sunday evening, October 23rd.

ROSES: A talk of special interest on Roses will be delivered at 3LO, Melbourne, by Mr. T. A. Stewart, President of The National Rose Society, on Monday evening, October 24th.

ATHLETIC TALKS: Mr. C. Bergmeier, Middle Distance Professional Champion Runner of the World, will open a series of special talks on Athletics at 3LO, Melbourne, on Monday evening, October 24th, at 8 o'clock.

ENGLAND AND AUSTRALIA: Dr. Springthorpe, who has recently returned from England, will give a most interesting talk at 3LO, Melbourne, on Monday, October 24th, at 9.3 p.m.

WARDE MORGAN: Mr. Warde Morgan, lately of "Frasquita" Company, is to commence a series of song recitals at 3LO, Melbourne, on Monday evening, October 24th.

SIFFLEUSE: One of the winners in the 3LO, Melbourne, Whistling Competition—Miss Daphne Whitehead—is to give a demonstration of her art for broadcasting on Wednesday evening, October 25th.

EDUCATIONAL SESSION: The Rev. Kenneth Henderson will conduct the Weekly Educational Session on Thursday, October 26th, commencing at 3 p.m. Other speakers are Mr. Fritz Hart and Rev. D. G. Glyn Jones, B.A.

Why Blame Static? Buy a Philco!

A COMING STAR.

A dainty ambitious little lady is Miss Tim Black, the winner of the recent Table Talk Musical Comedy Actress Competition, and prospective star of the Australian stage, who is to broadcast from Studio 3LO, Melbourne, for a short series of engagements.

Discussing her success in the competition, Miss Black said that she received no encouragement from her family in the first place—in fact, they treated the matter as a big joke; but when they found she was included in the semi-finals, and lastly in the finals, they began to give a bit of attention to the matter, and were both delighted and surprised when she carried off first honours.

Although little Miss Black's strong point seems to be dramatic recitation, she intends to devote most of her time to musical comedy, and has taken for her pattern the dainty vivacious comedienne, Miss Elsie Prince, whose work greatly appeals to her by reason of its "naturalness."

THE SPOKEN WORD: If there is one word that causes a broadcasting manager's heart to sink, it is "elocutionist." This unsuspecting individual, who comes into the studio, and offers to give a recitation on the air, little knows what extremely thin ice on which he, in his ignorance of the technicalities of radio, blunders. The air still has its limitations, despite the remarkable strides which have been made, and the humble recitation is the least attractive of the hundred and one diversities offered. When we have television, this will be overcome to a very large extent, but there is still the difficulty of what is known as "frequencies" in the human voice to contend with. The rise and fall of ordinary conversation is as natural as it is necessary; without it, the monotony would be intolerable. And this is the elocutionist's downfall, on the air. His listeners cannot see him, and consequently the force of action is lost. He has, therefore, to obtain effect through the inflexion in his voice, and this is drastically curtailed. It takes an artist of more than ordinary ability to rise paramount above all those difficulties, but Selwyn Seymour has proved himself equal to the task. His sketch, "Blind," which was repeated by special request of many 2FC listeners at the studio on Friday last, is an outstanding example of "microphone sense," which in his wisdom he has cultivated to an appreciable degree, and his work in "Monte Carlo," to be given on Wednesday, 19th October, should prove equally attractive.

FRED WALKER: One of the latest additions to the programme of Studio 3LO is Mr. Fred Walker, the possessor of a pleasing baritone voice which he uses to great advantage in concert work, and which is well known both in musical circles around Melbourne, also in the country towns of Victoria and New South Wales. In fact, it was because he is so well known in the country, and people had so often asked him at the close of a concert, "when they were going to hear him from 3LO," that he turned his thoughts in the direction of the wireless.

TIME: Time waits for no man, and Mr. H. E. F. Lampe, of "Diamond Talk" fame, is telling listeners to 3LO, Melbourne, how it has always been measured, from the day of the cave man when his primitive timekeeper consisted of a smouldering strand of knotted rushes—each knot representing a day—right down to the present day of jewelled time-pieces wrought with exquisite beauty.

There is something very romantic and alluring in the study of old clocks and time-keepers. Everyone remembers with more or less mixed feelings of joy or sorrow some incident or other in which the toll-tale clock has figured prominently. Cinderella lost at the striking of the midnight hour her short-lived glory as well as her slipper, and many lives and hopes and fears have hung in the balance as the clock "tick-tocked" the approach of doom or life and joy.

What a world of romance Mr. Lampe has from which to garner his talks. Listeners will look forward to them with feelings of delight, especially after the outstanding success of his talks on Diamonds.



Having but recently returned from their Tour of India and the Far East, Signor Ubaldo and Miss Lynda Bradford are shortly to broadcast from 3LO, where their Operatic Duets and Solos are sure to be greatly enjoyed.



Jessie Shmith, the well known contralto, who after a successful season at 3LO is broadcasting, from 2FC.

KENNETH IMPETT, the popular young New Zealand baritone, who has been a popular vocalist with 3LO Melbourne, intends to leave for Italy in the near future to study voice production. Mr. Impett is a young man whose voice shows great promise, and in Milan he will study under the best teachers. Before his departure he will give a series of farewell recitals through 3LO Melbourne.

AMATEUR BOXING AND WRESTLING CHAMPIONSHIPS: 2FC have arranged to describe these events from the Stadium at Rushcutter's Bay, on 18th October, and again on Thursday, 20th October. The interest in these sports is universal, and our southern sister State has taken advantage of the opportunity of relaying the descriptions. Music will be supplied in the interludes by the Bondi Beach Concert Band and N.S.W. Tramway Band respectively.

ELECTRIC NIGHT: On Friday night, 21st October, all the broadcasting stations are devoting special attention to the wonders of electricity, and 2FC have arranged their programme accordingly. Mr. Myers, Chief Electrical Engineer, N.S.W. Government Railways and Tramways, will give an address, and Scott Alexander has written a clever sketch suitable for the occasion.

VAUCLUSE HOUSE: Mr. T. M. Shakespeare, President of the Vauclose House Trust, will give a talk on the historic home of William Charles Wentworth, from 2FC studio, on the evening of 21st October. The beautiful old residence, transformed in season into a veritable fairyland with wisteria, is a never-failing source of interest to residents and visitors alike.

Entertaining an Empire Statesman

WHEN the Duke of York was here, one of the best bits of direct broadcasting was that from the Queen's Hall at Federal Parliament House, when the Duke was entertained by Federal members at dinner.

The same historic hall will be the scene of a Parliamentary dinner to Mr. Amery, the Secretary for the Dominions, on October 31st, and 3LO, Melbourne, is making arrangements to broadcast the speeches. The occasion should be full of interest, for Mr. Amery is a man of great influence and insight, and what he says about migration on that occasion will really be the utterance of the British Cabinet.

It is possible, too, that 3LO will be able to induce the statesman to deliver a special message over the air from the studio.

Personally I regard these events as among the most important entrusted to a broadcasting studio. Music and song and story are all very well, but they or their equivalents may be had at any concert and in any country. The visits of eminent people like Mr. Amery are rare and of peculiar significance. The ability to let the hundreds of thousands unable to hear such men speak in halls makes for greater understanding. I have heard *meu revile* the great, on general principles, eating their words when they have had the privilege of seeing and hearing them personally. The radio provides this personal touch as no other agency can.

LONG-RANGE SHOW OPENING.

Last week I had occasion to tell how 3LO, Melbourne, was arranging to broadcast from country shows descriptions of events and personalities, similar to the broadcasting that has proved so popular in connection with the Melbourne Show.

Just a few days' afterwards, the value of wireless in this connection was demonstrated admirably. Lord Somers, the Governor, who is particularly keen on cattle and country products, was to have opened the show at Bonalla—121 miles away from Melbourne. Something interfered, and it was found that he could not attend in person. There was great disappointment in the district, and it seemed as if the show would be shorn of an attraction. 3LO, Melbourne, came to the rescue and arranged that the Governor should carry out his original intention and open the show by wireless from Melbourne. The crowd before a loud speaker heard his voice and listened to his speech. This

Including News and Notes from 3LO

By H. ELLO

Governor sat comfortably in his study at Government House the while.

3LO, Melbourne, is very pleased with the public recognition of its work in connection with broadcast country shows and will extend the principle as it can.

"FRASQUITA" ACTOR: Fresh from his triumphs in "Frasquita" comes Mr. Ward Morgan to Studio 3LO, where his voice will be heard over the air in a great range of vocal gems, from light comedy to grand opera. There is little to say regarding Mr. Morgan's voice in these pages—the majority of us have seen him in the many successful musical comedies and light operas in which he has portrayed leading roles—and the sympathetic quality and artistic finish that accompanies all his work is now familiar to us. Listeners will be glad to know that he is daily growing stronger with the aid of massage and exercises—after his terrible accident in Sydney, and the nervous strain that ensued, and it is pleasing to know that in spite of everything, he is singing better than ever.

YETTY LANDAU'S CHILDREN:

There are few broadcasting stations in the Southern Hemisphere where the likes and dislikes of the young people are studied more than at Studio 3LO. No effort is spared to make their programme specially attractive with song, story and fairy playlet—especially the latter which appeals to children of all ages. To cater specially for this class of entertainment, comes Miss Yetty Landau with the bevy of clover children which she has trained, and who are, by this time, quite accustomed to the vagaries of the microphone. She is to broadcast another of her delightful Fairy Playlets on October 27th, and her young artists will tell the wonderful story of "Once Upon A Time" by song and story. Although no member of the company has reached the age of twelve, several of the children have a few years' stage experience to their credit, and give promise of being very versatile little artists.

MADAME ELLA KINGSTON.

One of the latest additions to the programme at Studio 3LO, Melbourne, is Madame Ella Kingston, who is well

known to hundreds of listeners, for she is the conductor of the Ladies' Orpheus Choir, and musical directress at the Collins Street Baptist Church. She has spent many years in Melbourne, during which time her vocal activities have been chiefly in choral and church work; and, as many people will know, she was for fifteen years the principal soprano vocalist at Collins Street Baptist Church.

Madame Kingston's early life was spent in Louth, Lincolnshire, and her college career began at the early age of eleven. Her musical talent showed itself at an early age, and, in addition to excelling both in violin playing and singing, she was found carrying off the honours for pianoforte playing in the County of Hertfordshire. Her success gave zest to her studies, and wherever the young performer was heard, notable people in the music world gave great hopes for a brilliant future. When she was but fifteen, her rendering of "Angels ever bright and fair" so impressed one of the leading tenors of England that he predicted a great future for her as a vocalist, whilst her brilliant pianoforte and violin playing frequently called forth the remark that she would climb to fame by either of these instruments.

The opportunity was provided for her to study at the Royal Academy of Music under Madame Larkcom, during which time she applied herself diligently to study, which was followed by splendid successes both in London and the provinces.

Since the beginning of her career, Madame Kingston has confined herself almost exclusively to sacred work, and in it has found her niche in the world of music. Listeners will be glad to hear her rendering of some of our beautiful sacred melodies over the air, for her exquisite rendering will surely lend a new beauty and meaning to the words.

THE MELBOURNE CUP.

Among the events for the end of October and the beginning of November are some important items. There is, I am informed by a friend of mine who is a sporting editor, a big race being run on the first Tuesday in November at a place called Flemington. It is known as the Melbourne Cup. It is the big broadcasting opportunity of the year, for every owner of a set that can pick up 3LO, Melbourne, on that day is trying to tune in. Ships at sea, foreign stations, all try and listen in to the winner's name.

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A One-Valve Reflex Set

as described in this issue

	s.	d.
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1 Eco Centerline Condenser, .0005	10	0
2 4in. Plain Engraved Dials, 2/3	4	6
1 G. & S. Panel Type, Ad- justable Detector	8	3
1 Certified 30 ohm. One Hole Fixing Rheostat	2	0
1 Crescent 6 to 1 Audio Transformer	13	6
1 Philmore 201A type Valve Socket	1	6
1 Wetless .002 Mica Con- denser	1	6
1 Wetless .001 Mica Con- denser	1	6
1-lb. 20 D.C.C. Wire	2	0
1 9in. length, 3/4 Eronoid Rod	1	0
1 Piece Radion, 4 x 1 x 3-16	0	4
1 Terminal Board	2	9
1 doz. sq. Buswire	0	10

Price £2/16/8 Set

Quality Parts

Eco Stratalin Condensers, .0005, 10/-	
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Advance Centralign Condensers, .0005	12/6
Continental S.L.F. Condensers, .0005	9/8
Certified S.L.F. Condensers, .0005, 9/9	
Ripault S.L.F., with Vernier Dial, .0005	23/9
B.M.S. Vernier Dials	7/9
Pilot Like Vernier Dials	12/-
Emmo Vernier Bal. Dials	7/6
Certified One-hole Rheostats	2/-
Keiford Antihole Sockets	3/-
Ajax 201A Sockets	1/6
Multipoint Detectors, G. and S., Silk Core	8/3
Glass Enclosed Detectors	2/6
2ft. Speaker Cords	2/9
5ft. Speaker Cords	1/-

Econotron Valves

201A, 6 volt	5/6
T14 Audio, 6 v. ...	6/6
Resisto Coupler, 6 v. Price	11/3
200A Detector	15/9
UX or UV 199, 4 v. .06 Price	6/9
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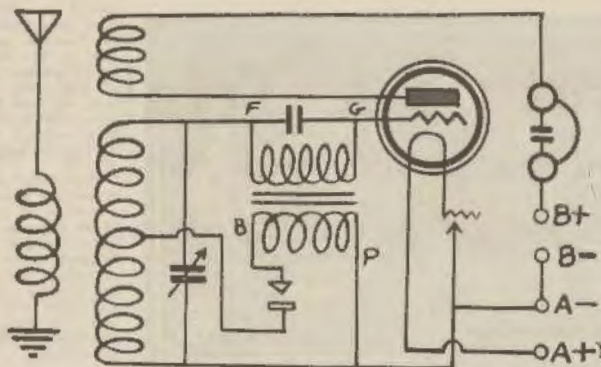
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A Single Valve Reflex Receiver

THE average man to-day is always trying to get the most out of a single valve set. Many and varied are the means put forth by skilful writers, but somehow or other reflexing is the most popular method in existence to-day. Virtually speaking, reflexing a receiver is very successful provided the system adopted is one which lends itself to fool-proof tendencies. Invariably too, a crystal is employed as a means of rectification, and many constructors contend that herein lies a weak point in every reflex receiver.

This is not true in every sense of the word, although as a matter of fact in many instances there is a certain amount of reason for these assertions. But the overcoming of this difficulty is not insurmountable and the receiver proposed to be described is one which is very stable indeed, and will therefore make its appeal to those many readers who are anxious to get loud speaker reception using only one valve.

In almost every reflex circuit it is usual to have the crystal rectifier in the plate circuit of the valve. This causes considerable damping and naturally results in broad tuning, the arch enemy of wireless receivers owned by city people. A glance at the circuit diagram of this receiver shows that the crystal detector is connected to the centre turn of the grid coil, thereby enabling the radio frequency current induced in the grid coil by the aperiodic aerial coil to reach the grid of the valve; here they are slightly amplified and fed back through the reaction coil to the grid

coil again; here is where a great increase in sensitivity is obtained.

As has been mentioned over and over again in these pages, a tendency of modern receivers is to increase the selectivity at the expense of the sensitivity. Now this is quite wrong, because there is no reason in life why

the combination of selectivity and sensitivity should not be maintained throughout. An effort has been made in this receiver to produce this effect, and just how far it is produced will be proved by those who constructed.

Many owners of standard 3 coil regenerative single valve receivers will welcome this reflex receiver, and it is only necessary to procure a fixed condenser, an audio transformer, and a crystal detector to convert their present receiver into this model with advantageous results. The sensitivity of the receiver will not be interfered with in any way, rather will the volume be increased to a very high standard. Incidentally, too, the purity of reception will be enhanced immensely, as there is no question of the fact that it is an extremely difficult matter to get better purity than is obtained by means of crystal rectification.

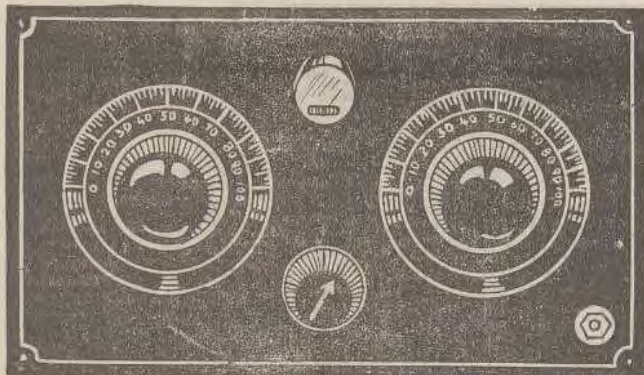
The beginner is sure to ask just what purpose the valve itself performs to enlighten them on this matter. The more experienced reader will perhaps pardon the writer for inserting the next paragraph. The valve performs a dual purpose. It does not detect, this being the right of the crystal, but it amplifies the incoming energy firstly at radio frequency, and in this manner boosting up the manner of the untuned oscillations, then after those are detected, they are fed back to the valve again to be amplified at audio frequency. Thus there is a combination of radio frequency amplification detection and audio frequency amplification, three distinct purposes and only one valve required to do this.

Parts Required

Although the parts listed below and mentioned throughout the article were those actually used by us in the receiver described, it must be pointed out that it is not absolutely essential that they be rigidly adhered to.

Other parts of similar quality and technical values should function quite satisfactorily.

- 1 Dilecto, Radion or Hard Rubber Panel, 12 x 7 x 3-16.
- 1 .0005 mfd. Pilot Centraline Condenser.
- 2 4in. Dials.
- 1 Harlie Detector.
- 1 30 ohms. Rheostat.
- 1 Advance 5-1 A.F. Transformer.
- 1 Valve Socket.
- 1 .002 Wetless Condenser.
- 1 .001 Wetless Condenser (Optional).
- 1 lb. No. 20 D.C.C. Wire.
- 9in. of 1/4 or 3/16 Diameter Dilecto or Radion Rod.
- 1 Small Piece of Paneling, 4 x 1 x 3-16.
- 1 Terminal Strip, with 8 Terminals.
- Sundries, Screws, Wiring, etc.
- 1 Baseboard, 11 x 9 x 1/2.



Here is a saving in the cost of upkeep and here is a means of listening in on a loud speaker to the local stations, and only one valve used.

But before proceeding any further, too much stress cannot be laid on the necessity of making use of only a high grade crystal detector, and this unit is the main spring of the whole receiver. A cheap ordinary crystal detector is less than useless, so it is incumbent upon the constructor to employ only a high grade crystal detector. Having this end in view, the writer has specified in the list of component parts necessary a Harlie detector, but other good quality detectors may be used, such as one of the well-known Lion family or a Carborundum, also a well-known product.

For the sake of neatness and appearance the front panel only has two dials, one for the condenser, and one for the reaction control and the crystal detector with the rheostat mounted below. All the terminals necessary are mounted on a terminal strip at the back of the baseboard, even the terminals for the loud speaker or headphones are there. This gives an exceedingly neat appearance besides providing a means of constructing short leads which are so necessary in every efficient wireless receiver.

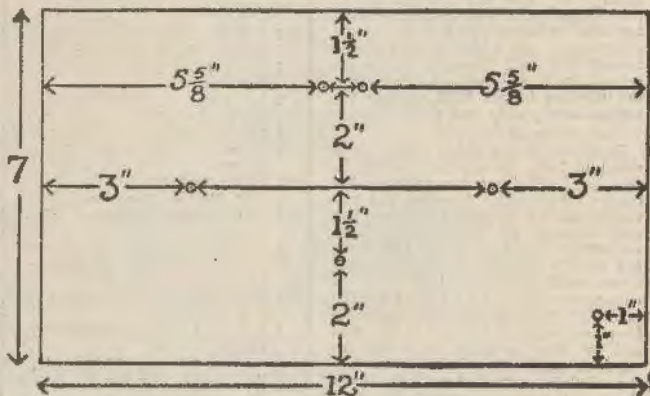
The coils for this reflex set may be wound at home. For this purpose there is required half a lb. of No. 20 gauge D.C.C. wire. The primary or the aperiodic coil consists of 8 turns, the secondary coil of 40 turns, and the reaction coil of 35 turns, of this gauge wire. Early radio men will remember the basket wound style of low loss coil so popular in short wave receivers of 2 or 3 years ago. This is the method adopted for the coils required for this receiver.

wound on. Borrow some cotton, and bind these turns together. Next wind the reaction coil and securing as before at the beginning, wind on 35 turns in a similar manner, in and out of the nails. Bind this coil now, separate from the primary coils. Remove the nails altogether, and take both coils off, leaving them carefully on the one side.

Drive the nails back into their respective positions, and wind the secondary or grid coil. This consists of 40 turns as previously mentioned, but at the 20th turn, a tapping should be taken in the usual orthodox fashion of making a small loop, and continue the winding until 40 turns are wound on. Bind with cotton as before, remove the nails from the board, and slip the coil off. This completes the coil winding.

Next mark out and drill the panel in accordance with the panel drilling diagram accompanying this article. Lay the panel on a flat surface, mark out with a centre punch, then drill. Never forget it is always a wise policy when drilling standard panel material to use only a light pressure, but a high speed. No vernier dials are necessary in this receiver, so the constructor can forget about the catch screw which is usually necessary with the vernier dial, but attention should be paid to the fixing holes necessary for the fixing screws for the variable condenser. Also bear in mind that the panel has to be screwed to the baseboard so that it is necessary to provide 3 holes at the bottom of the panel for this purpose.

On the panel mount the condenser, and the rheostat, also the crystal detector. Prepare the panel by trimming off the edges and treating it to a coat of shellac varnish. Now screw



the panel into position on the base-board.

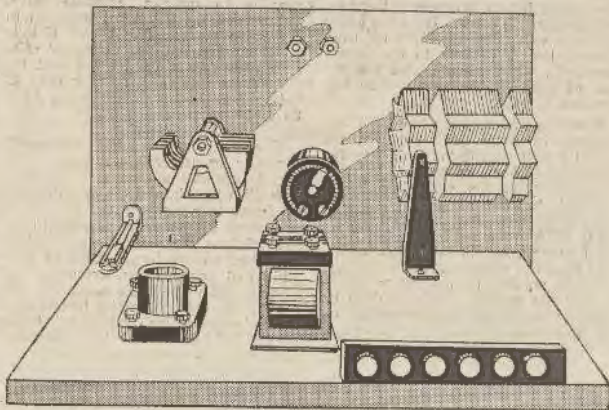
At this stage it is wise to mount the reaction coil in its position, pick up the dilecto or radion rod, which should be drilled at each end in such a fashion that a short length of 3/16in. brass rod may be fitted into each end, in such a manner, that the rod is increased in length by means of this brass rod by approx. 1in., that is, a brass rod should protrude 1/2in. from each end of the rod.

Next bind the reaction coil to the rod, using again the family cotton. Bind this securely so that it does not slip. On the small piece of dilecto the size of which is as previously mentioned, 4 x 1 x 3/16in., drill a hole the same diameter as the brass rod, which protrudes from the dilecto or radion rod. Mount this small piece of dilecto at the back of the base-board in such a manner that the reaction coil mounted on this rod should spring through its own axis. There should be attention between the front panel and this small back supporting panel, so that the reaction coil does not flop all over the place, but will remain in any position according to the turning of the dial on the front panel, which controls the angle of this reaction coil.

Next mount in position the secondary coil, and the aerial coil. The secondary coil should be mounted close to the reaction coil so that the reaction coil may swing towards the secondary, therefore, it would be wise to mount this secondary coil on the same level as the reaction coil. The aerial coil is fitted to the grid end of the secondary coil, that is, the opposite side to the reaction coil. The aerial coil should be approx. 3 or 4 an inch away from the secondary coil, and may be held in position by means of 3 matches. It is absolutely necessary to note that all three coils are so mounted that the windings run in the same direction.

Now lay out the rest of the base-board apparatus, this consists only of a socket and a transformer, across the secondary of which is mounted the .002 fixed condenser. Fit the terminal board into position now, this terminal board should have 8 terminals, one for the A battery positive, one for A battery negative, one for B negative, one for B positive, and two for the loud speaker or earphones.

If the constructor prefers to make his own terminal board, a handy spacing for these terminals is 1in. apart. When mounting the terminals on the terminal strip, considerable time and trouble will be saved if the constructor fixes soldering lugs to each terminal; from these lugs can the connections be taken to the various components of the receiver.



The wiring can be proceeded with at this stage, the choice of wiring wire is left to the constructor himself. Some prefer neat looking square busbar with right angle bend, while others display a strong partiality for the soft point to point insulated wiring. Commence the wiring by connecting the aerial terminal of the terminal board to the beginning of the aerial coil, the end of which join direct to the earth terminals. Now run a connection from one side of the rheostat, to one F terminal of the valve socket. Connect the other F terminal of the valve socket to the A positive terminal on the terminal board. Now the remaining side of the rheostat should be joined to the A negative terminal, and the B negative terminal. While on the terminal board, join the B positive to the nearest loud speaker terminal, the remaining loud speaker terminal connect to one side of the reaction coil, the other side of which join to the P of the valve socket.

Run a wire from G of the audio transformer to G of the valve socket. Now connect P of the audio transformer to the fixed plates of the variable condenser, and to the beginning of the grid or secondary coil. The beginning of this coil is that side nearer the aerial coil. Now join the end of this grid coil to the moving plate of the variable condenser, and to the P terminal of the audio transformer, also to the A negative and B negative terminals, on the terminal board. From the B terminal of the audio transformer run a connection to one side of the crystal detector, the other side of which to the centre tap of the grid coil. Naturally, in making this connection, the insulation should

be scraped from the wire, and a drop of solder applied.

The other day the writer had submitted to him, a single valve receiver for test purposes. This receiver had not been made by a raw beginner, and not one joint was soldered; the constructor had similarly twisted his connections, hoping to make a good contact. Naturally he didn't, because the losses set up were so great, very poor signal strength resulted, and what did come through was very scratchy and noisy, a sure indication that the cause of the trouble lay in bad and loose connections. A few minutes with the soldering iron set these matters right, and this paragraph was inserted to impress the beginner that intermediate joints should be soldered. A few hints in soldering were given in "Wireless Weekly" of the 7th inst., and those readers who are not conversant with this side of the construction are referred back to this issue.

When everything has been wired correctly, test the receiver. First of all make certain that the B battery terminals and connections are not mixed up with the A batteries, because if by any chance this does happen, and the B batteries are connected to the A battery terminals, or if by any chance the A battery makes contact with the B battery wiring, when the receiver is connected up, the valve will be rendered useless by being burnt out.

Avoid this possibility at the very beginning, insert the valve in its socket, and connect the A battery itself, to the B battery terminals. Turn on the Rheostat, and if the valve lights up you can assure yourself that

there is a wrong connection somewhere, check over all your work in the wiring before proceeding further, and rectify this error. If on the other hand the valve does not light up, then connect the A battery to its proper terminals, which should give the result of lighting the valve when the rheostat is turned on.

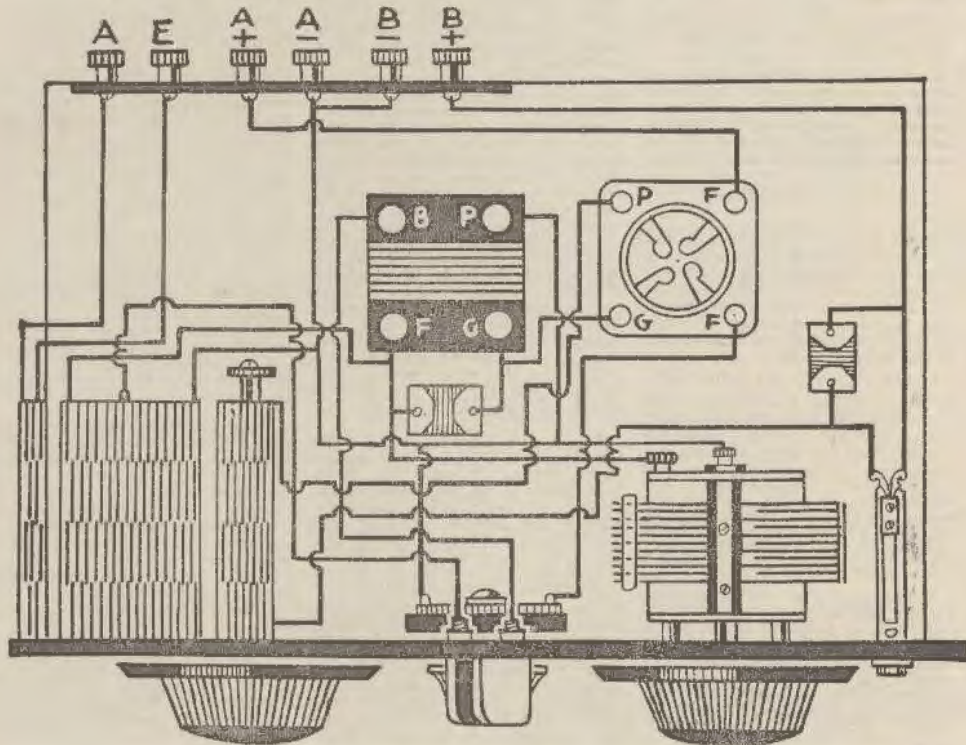
Now the choice of a valve is of importance in every reflex receiver. On actual test it was found that a power valve suited best, valve used being a Cossor, Stentor Six, which requires a six volt A battery, and about 100 volts B battery. Radiolux and Radiotron, 201A valves, both gave very good results, but it is always necessary that the valves should be worked on that portion of the curve where it does not rectify. This is done by suitably adjusting the potential on the plate and the filament current. If in doubt as to the valve to use, ask your dealer to show you the curves of different valves, and select one whose characteristic curve has a good straight portion. To-day, there will be found a wide choice of valves to suit all purposes, and at various

prices to suit the pocket, so it should not be a hard matter for the constructor to pick a suitable valve. Follow out the directions enclosed in the valve packet, for A and B batteries supply, and for goodness' sake remember not to expect the best results from this receiver with only 45 volts plate battery. At least, have 80 to 90, more is preferable.

Now look on the aerial and earth to their respective terminals. The aerial should not exceed 80 feet overall in length, and the earth should be direct to a clean water pipe or to a sheet of copper or iron buried in the ground in some moist place. The earthlead should be as short as possible and fairly stout, certainly no thinner than the wire used for the aerial. Now connect the headphones to their respective terminals. Light up the valve and tune in. The local stations will very quickly be heard, but free of interference, one from the other, excepting under adverse circumstances, such as a location in the shadow of a high-powered broadcasting station.

Adjust the reaction coil by bringing it closer to or further away from the grid coil. Find a good point on the crystal detector, try two or three different places on the crystal. A decided increase in volume will be found when a good spot is located. Return with each different crystal adjustment. Use your rheostat to advantage. There will be found one position which yields best results. Adjust the B battery voltages. Finally, if reaction is difficult to obtain, reverse the connections on the reaction coil. This will adjust it satisfactorily.

This is a really good little receiver, and will find many friends everywhere. Don't be afraid of a reflex receiver, wonderful will be the results obtained, provided the constructor follows the instructions carefully. The remarks concerning the crystal should not be overlooked, nor should the question of B battery voltage be treated casually. Granted everything is correct, those who make up this receiver should get the same results as did the writer. The writer's home is



at Marrickville, in a high position 33 miles (airline) from 2BL, and 17 miles (airline) from 2FG. All the local stations were heard very nicely on the loud speaker, not enough volume to deafen you, of course, but sufficient to fill the average size room with clear sweet music. And the Announcers' voices were very natural.

A certain amount of care is required in using the reaction coil, this being a feature worth while from the point of view of hearing long distance stations on the earphone. The speaker used was a Brandes Tablecone which, besides looking very attractive on top of the cabinet, is particularly sensitive, as the magnet of the unit is of generous proportions. All who heard this receiver expressed surprise at just what could be achieved with a simple set like this. For local reception it will be found ideal, and considering that the life of the A and B batteries depends greatly on the number of valves used, it is evident that these accessories should last a considerable time. Here is a saving to the pocket.

Finally, it will be found advisable to shunt the loud speaker terminals with a fixed condenser of .001 capacity. This will allow any radio frequency energy present in this portion of the circuit to be by-passed instead of flowing through the windings of the speaker or 'phones as the case may be. Try it with and without.

MRS. H. R. HAMMER'S BORZOI DOG "AUTOCRAT OF ROOSKAYA."

In connection with the broadcast of the heart-beats of one of the largest dogs in the world, by 5CL recently, some interesting facts were given by the lecturer before the broadcast.

The borzoi or Russian wolf hound is used in Russia for hunting wolves. They are very fast and have great stamina and can chase the wolves for very long distances. The wolves are coursed with a brace of borzois in the same way as the hare is coursed in Australia with a pair of greyhounds. Sometimes a pack of borzois is used on a pack of wolves, the hunters riding after them on fleet horses.

This borzoi is Mrs. H. R. Hammer's well-known "Autocrat of Rooskaya," and was imported by that lady last April from England. He was procured in England by Mr. H. Thompson, of Bradford, who is a well-known borzoi breeder and judge. That gentleman stated that in his opinion "Autocrat" was the second best borzoi in England.

Vacuum Tubes for Every Purpose

When is the Vacuum Tube Worn Out ?

OF vacuum tubes there are many kinds for many purposes. Tubes are primarily divided into transmitting and receiving tubes, the main difference being size and capacity, the basic design remaining the same.

For reception, there are two primary classifications, namely, receiving tubes proper and auxiliary special tubes. Taking up receiving tubes, we have general utility tubes operating on either storage battery or dry battery, according to preference. Formerly, and until the advent of dry-battery power tubes, one was virtually compelled to employ storage-battery tubes for powerful loud-speaker results. To-day, however, there is no longer the wide discrepancy between dry-battery and storage battery operation. General utility tubes may be employed as detectors, radio frequency amplifiers, audio frequency amplifiers, and small oscillators.

Then there are the special purpose tubes, divided into supersensitive detectors and high-volume output amplifiers. Of the former, there are two types of precisely the same characteristics but with different bases. Of the latter, there are three types, namely UX-120 for the last stage of a dry-battery amplifier, UX-112 for storage-battery amplifier, and UX-210 for use with electric-light-supply power amplifiers. So much for receiving tubes proper. Switching over to auxiliary special tubes, we have the regulator tubes for battery eliminators. There is UX-874, which controls the "B" voltage applied to the receiving set by a battery eliminator, as well as UX-876 which controls the alternating current line, current going into the battery eliminator. There is protective tube, UV-877, which protects the tube filaments of a receiver against possible "B" battery potential due to faulty connection or short-circuit. Then there are the rectifying tubes or rectrons, UX-216-B and UX-213 used in battery eliminators.

You will notice that I have referred here to American type tubes, as these are more generally known to the average listener, but it must be understood that there are many makes all with their own denominations such as the B406, PM4, Stentor 6, and countless others that it would take hours to enumerate.

VACUUM tubes, like living things, grow old and finally come to the end of their existence. Formerly, when vacuum tubes had solid tungsten filaments, a tube was useful until the filaments would no longer light. To-day, however, economical vacuum tubes employ special filaments which continue to light even after the tube has become practically useless. So a lighted tube is no proof that the tube is still good.

Progressive radio dealers have tube testers with which to determine the characteristics of tubes. When possible, the radio enthusiast should have doubtful tubes tested by his radio dealer, and, as often as not, those same tubes, provided they be genuine radiofrons with the X-L or thoriated-tungsten filament, can be rejuvenated or reactivated as it is called, so as to deliver several hundred hours of additional service. To the radio listener in rural parts where a local radio dealer is a rarity, there is a simple home-made means for testing the efficiency of tubes. This involves nothing more than mere comparison between a tube of highest efficiency and the tube in the receiving set. First of all, the radio enthusiast should secure a new tube from a reliable dealer. This tube is now substituted for one tube after the other in the receiving set, noting the difference in signal strength and tonal quality. In this manner the radio enthusiast or listener can tell which tubes are getting weak, causing a loss in signal strength and even impairing the tonal quality, by direct comparison.

Reliable vacuum tubes have a life well in excess of a thousand service hours. Furthermore, while efficient tubes should be employed for the audio amplifier sockets, the older tubes can be used with good results for the radio frequency and detector sockets.

CRICKET: Mr. Rod. McGregor commences his talks on Cricket on Thursday evening, October 20th.

DANCE MUSIC: Thursday night, October 20th, being "Dance Night" at 310, Melbourne, Jas Aronson and his Symphonists will render some new numbers.

A Section for the Trade

WIRELESS ON AIR PLANES.

To enable them to pick up news and weather reports en route, the United States Air Mail Planes are fitted with radio receivers. In this picture is shown at left Billy Brock, famous

Capacity reaction is also a feature of this kit, and this method of regeneration, which provides such delightful control, makes the logging of distant stations a comparatively easy matter.

phase difference approaching ninety degrees with the original disturbance, no oscillations would be created, because with such a difference there is no continuous reinforcement of the original impulse.

Full particulars of installation, operation and supplies were received from Messrs. Amalgamated Wireless (Australasia), Ltd., of 47 York Street, Sydney, who are the wholesale distributors in Australia for Electrad Certified Radio Products.



trans-Atlantic pilot, who has made many records as air mail pilot and stunt flier. With him is Mr. Souther, Chicago salesman for the All-American Radio Corporation, who fitted an all-American receiver to the plane. The set has shielded coils, and when carried on the first air mail flight from Chicago to Minneapolis picked up stations right along the route.

The coils are wound with green silk wire on celluloid formers; all ends are taken to soldering lugs clearly lettered, which reduces the chance of faulty wiring to a minimum.

The kit is of robust construction and good finish, and one we can thoroughly recommend to the novice.

CLYDE SPARKS.

We have received from the Clyde Battery Service a copy of their excellent little house organ entitled "Clyde Sparks." Although primarily intended for Service Stations and Radio Dealers, this chatty little volume contains a heap of matter which is of interest to anybody interested in batteries.

The issue under review is printed throughout on art paper, and the front cover design in two colors shows a picture of a huge blue-gum tree, side by side with a motor car. It is somewhat difficult to link these two things together until one opens the book, and finds a neatly worded paragraph which draws an analogy between the handiwork of nature and that of man, and introduces a neat little climax by pointing out that it is from matured trees such as that

THE PHASATROL.

The latest "Electrad" Product to reach the Australian market is the "PHASATROL," a true balancing device for Radio-frequency Amplifiers. It is suitable for any circuit which employs Radio-frequency Amplification—whether tuned, untuned or reflex. One Phasatrol must be used for each stage of Radio-frequency amplification and, when correctly installed and adjusted, Phasatrols will absolutely eliminate any tendency to radio-frequency oscillation or distortion. They should prove especially useful to the man who builds his own set, as a means of balancing and controlling the radio-frequency amplification. The principle of their operation is based upon the fact that when the actual impulse upon the grid shows a



shown on the cover that the wooden separators used in Clyde batteries are obtained.

W. R. Green, Production Manager of the Battery Department of the Clyde Company, contributes an article dealing with the progress of the manufacture of Clyde Batteries, and one learns from this that whilst in 1926 the production of batteries by this firm was approximately 40 per day, to-day no less than 250 batteries are turned out every day. Truly, big figures, and reflecting great credit

THE AIRZONE MASTERDYNE KIT.

This Kit, which has recently been examined by us, utilises one stage of Radio frequency and differs from the



usual design in that it employs a loose coupled primary in the R.F. Coil. This feature reduces the tendency to oscillate, a point that should appeal to the amateur not versed in the art of neutralising, and also makes for greater selectivity.

upon both the product and the method of merchandising it. Incidentally this particular article gives some figures regarding the big new battery plant which is now being installed by the Clyde Company. This has a concrete floor space of over 50,000 square feet. A double page spread neatly laid out illustrates the various types of literature, pamphlets, blotters, show cards, etc., which are produced from time to time by the Clyde Company, and supplied free to Service Stations. There is a detailed description of the new Clyde Radio "A" Power Unit, and various illustrations of Service Stations and other items related to the battery industry.

A number of snappy pars and news items scattered throughout the book complete the volume, and make it most interesting reading. A. R. Allen, the Editor, is to be congratulated upon his production.

EMMCO SUPER POWER ELIMINATOR.

Amongst the many new lines now produced by Emmco must be mentioned The Emmco Super Power "B" Eliminator, which is constructed particularly for supplying high tension current for multi valve sets. We tested this super power eliminator on a Nine Valve Receiver operating from a loop aerial, and found no trace whatever of hum, but vastly increased volume. It delivers 85 milliamps on 180/200 volts, and is supplied with a Raytheon B.H. Tube. It is adaptable for all types of valves.

The instrument is enclosed in a neat metal case with Bakelite top and aluminum base, the whole measuring 10 1/2 x 9 1/2 x 6 1/2, weighing 23 lbs. It has five terminals, one Earth, one B-, one Detector+, adjustable by a knob for voltages of from 20 to 45, one Radio+, adjustable up to 180 volts, and one Audio+ for the full 180 volts.



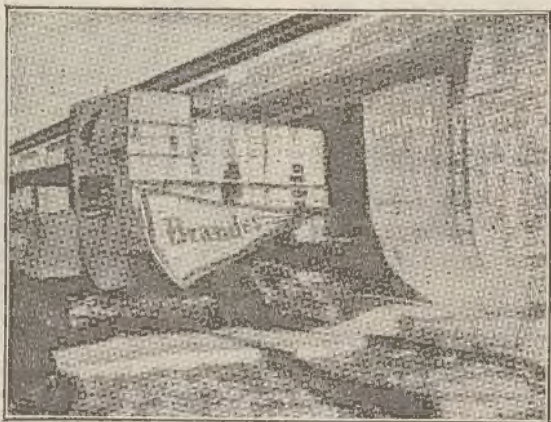
If a lesser voltage is desired in one or more of the Audio valves, they may be connected to the Radio terminals and adjusted to suit. The voltages may be altered by the adjustable knobs while the Eliminator is in use.

With each Super Power Eliminator a fully explanatory pamphlet is supplied so that the operation entails

no difficulty whatever. From practical test, and from an appearance point of view, the Emmco Super Power Eliminator more than meets modern requirements, and we predict a very large sale for it in the future.

TOO MUCH BRANDES?

Two years ago the name "Brandes" was known to a few people who just happened to buy a pair of "Brandes" phones. When we consider it to-day, this seems remarkable, as Brandes have been acoustical component designers and manufacturers since 1908.



What a difference there is to-day. Even here in Australia, that wonder reproducer "The Ellipticone," which recently won the Holland Acoustical Medal against all comers, has been heard and applauded by thousands, whilst its small confrere, "The Tablecone," naturally appeals to those of more moderate means.

Brandes have not confined themselves to their world known speakers—The Table Talker, The Brandola, The Tablecone, and The Ellipticone, but have recently branched out and carried their master craftsmanship to condensers and sets.

As an example of the way Brandes goods are being received in Australia, the photograph shows a rather remarkable thing. It happens to be one of six trucks carrying goods for shipment to Australia. The weight probably with the name and size of the shipment were too much for the truck, so it gave up the ghost.

A NEW BURGESS BATTERY.

New System Telephones Pty., Ltd., announce the early arrival of a new and much bigger type of Burgess

Battery, to be known as the No. 21308, or the Super "B." The Burgess No. 21308 weighs about 16-lbs., or only 2-lbs. more than their well-known No. 18308. This slight additional weight and slightly larger dimensions makes it possible for this Super "B" to have 25 per cent. greater capacity. The Battery is especially designed to give efficient service on heavy currents, so that sets requiring heavy currents—that is, drains which exceed 20 milliamperes, will operate efficiently and economically on the Super "B" service.

Cylindrical cells proved through

years of use, contain an improved mix. The paste electrolyte makes re-charge rapid and the insulation between selected cells is of the very best. The outer box is thoroughly paraffined and the posts equipped with insulated nuts.

It is sufficient to say that the Super "B" embodies all of the qualities which have worked for years to-



wards the success which Burgess has established, and also benefits through the new design and research of the Burgess engineers.

There is no "just-as-good" as Burgess.

GUARANTEED

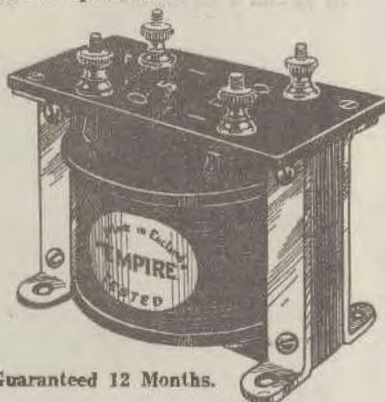
In **QUALITY**—**SERVICE**—**PRICE**

The "EMPIRE" Audio Frequency Amplification Transformer is made from the best of material, and is designed to give uniform amplification over the whole band of useful frequencies used in Loud Speaker reproduction.

Small in Size.

10/6

Each.



Big in Performance.

10/6

Each

The Price is Right.

Guaranteed 12 Months.

The Article is Right.

Made in One Size only—4 to 1 Ratio.

Radio Accessories.

We carry complete stocks of well-known brands of quality Radio Accessories, such as Menominee, Emmco, Radiokes, Grodan, Igranic, Airzone, Muter, Pilot, Advance accessories, Balkite, Philip's, and Tungar Chargers, Philips', Radio-tron, Mullard, Cossor and De Forest Valves, Amplion, Brown, Tefag and Crossley Loud Speakers, Ever-Ready, Columbia, Burgess and Philco Batteries, C.A.V., Clyde, Exide and Willard Accumulators, etc., etc.

All Goods Sold with Our Guarantee.

We pay carriage throughout N.S.W. on Radio Goods, other than Batteries, Speakers, Valves, Cabinets, Receivers, and Value Payable Post.

MAIL ORDERS.

Our Mail Order Department is under the supervision of a Mail Order Expert, which ensures prompt despatch and careful attention to packing.

WILES' WONDERFUL WIRELESS and ELECTRICAL STORES

BRANCH:
23 PITT ST.
Near Circular Quay.

PITT & GOULBURN STS.,
SYDNEY.

BRANCH:
384 PITT ST.
Opposite A. Harcourt's

MAIL ORDER BRANCH, 60 GOULBURN STREET.

BROADCASTING PROGRAMMES

for the COMING WEEK

Friday, Oct. 21
2FC, SYDNEY.

Farmer's Broadcasting Service.
Wave Length, 442 Metres.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and announcements.

10.5 a.m.—Studio music.

10.15 a.m.—"Sydney Morning Herald" news service.

10.30 a.m.—Studio music.

10.35 a.m.—A Reading.

10.45 a.m.—Studio music.

11 a.m.—"Big Ben." Marching music for school children.

11.5 a.m.—A.P.A. and Reuter's cable services.

11.10 a.m.—Studio music.

11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Furst.

11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.

12.2 p.m.—Stock Exchange, first call.

12.3 p.m.—Official weather forecast, rainfall.

12.5 p.m.—Studio music.

12.10 p.m.—Summary of "Sydney Morning Herald" news service.

Rugby wireless news.

12.35 p.m.—Studio music.

12.50 p.m.—Marching music for school children.

12.40 p.m.—Maimore Morris, soprano.

12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

12.55 p.m.—Studio music.

1 p.m.—"Big Ben." Weather intelligence.

1.3 p.m.—"Evening News" midday news service.

Producers' Distributing Society's report.

1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

1.25 p.m.—Stock Exchange, second call.

1.30 p.m.—Marching music for school children.

1.40 p.m.—Maimore Morris, soprano.

1.45 p.m.—Studio music.

1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.

3.5 p.m.—The Festive Carolers, duet.

3.7 p.m.—Popular records from the Studio.

3.15 p.m.—A Reading.

3.25 p.m.—Nesta Mullerkey, mezzo.

3.30 p.m.—Marching music for school children.

3.40 p.m.—Perala Butler, soprano (from Farmer's Oak Hall).

3.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

3.55 p.m.—Will Bowyer, bass.

4 p.m.—Frank Bohman, baritone (from Farmer's Tea Rooms);
"A Dinder Courtship" (Comes).

4.5 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

4.15 p.m.—Non Hallett, contralto:
"What does it Matter" (Berlin).
4.20 p.m.—Perala Butler, soprano (from Farmer's Oak Hall).
4.25 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.35 p.m.—Nesta Mullerkey, mezzo.
4.45 p.m.—"Danny, Boy" (Wheatley).
4.40 p.m.—Frank Bohman, baritone:
"Blessure" (Taylor).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Non Hallett, contralto:
"Because I Love You" (Berlin).
4.50 p.m.—Will Bowyer, bass.
4.54 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
5.45 p.m.—"The 'Hello Man' talks to the children.
6.30 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
6.50 p.m.—Late racing information by the 2FC commentator.
7 p.m.—"Big Ben." Dalgety's market reports (wheat, wheat and stock).
7.5 p.m.—Fruit and vegetable markets.
7.10 p.m.—Weather and shipping news.
7.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.30 p.m.—Programme announcements.
7.35 p.m.—A talk on Vauchose House.
7.45 p.m.—Alice Prowse, contralto.
7.55 p.m.—Eden and Jack Lauderoy, entertainers:
"She's still my baby" (Raskin-Little).
"Swallow Dan."
8 p.m.—"Big Ben." From the Lyceum Theatre, Pitt Street, Sydney. Orchestral items.
8.12 p.m.—From the Studio:
Note:—This night has been set aside by various broadcasting stations for the purpose of paying tribute to the workers of electricity, and in association with the Radio Broadcast Bureau a special programme has been arranged. Announcer's farewell.

8.15 p.m.—A message to be read, from Thomas Edison.
8.22 p.m.—Scott Alexander will present an original electric episode, entitled "The Birth of the Electric Lamp." Specially written for this occasion by Collingtree Hall.
8.37 p.m.—Mabel Batchelor, soprano:
"Tender Tie" (Delbeck).
8.40 p.m.—A short message.
8.41 p.m.—B. A. Bartleman, baritone:
"Thou art such, my beloved" (Taylor).
8.45 p.m.—Scott Alexander presents an original radio play, entitled "The Electric House," introducing an electric piano, electric gramophone, and electric radio receiver. During the course of this scene, Miss Mabel Batchelor, soprano, will sing.
8.58 p.m.—A short address.
9 p.m.—"Big Ben." Late weather forecast.
9.1 p.m.—B. A. Bartleman, baritone:
"Chumlike Fair" (Holiday).
9.4 p.m.—From the Lyceum Theatre, Pitt Street, Sydney. Orchestral items.
9.12 p.m.—From the Studio; Alice Prowse, contralto.
9.18 p.m.—Cyril Monk, violinist:
"Fautaise finlandaise" (ar. Monk).
9.25 p.m.—Eden and Jack Lauderoy, entertainers:
"I've grown so lonesome" (Gordon).
"What did I sell ya" (Meyer).
9.34 p.m.—Mabel Batchelor, soprano:
"Carry me back to old Virginia."
"O, how delightful" (Melloy).
9.40 p.m.—Harrison White, banjo solo.
9.45 p.m.—B. A. Bartleman, baritone:
"Port of many ships" (Keel).
"Time to go" (Sanderson).
9.52 p.m.—Cyril Monk, violinist:
"Songs my mother taught me" (Dvorak, arr. Kreisher).
"Slavonic Dance" (Dvorak, arr. Kreisher).
10 p.m.—"Big Ben." Eden and Jack Lauderoy, entertainers:
Piano and banjo novelties.
10.7 p.m.—The Lyceum Theatre Orchestra, from the Lyceum Theatre, Pitt Street, Sydney.
10.20 p.m.—Harrison White, banjo solo.
10.30 p.m.—Late weather forecast.
10.37 p.m.—Dance music.
10.51 p.m.—Late news and announcements.
11 p.m.—"Big Ben." Dance music.
11.20 p.m.—National Anthem.
Close down.

2BL, SYDNEY.

Broadcaster's Ltd.
Wave Length, 353 Metres.

Friday

EARLY MORNING SESSION.—7 to 8 a.m.
MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.
Musical programme from Studio.
10.40 a.m.—News from the "Daily Telegraph Pictorial".
10.50 a.m.—Musical programme from the Studio.
11 a.m.—G.P.O. Clock and Chimes.
Announcements.
11.5 a.m.—Musical programme from the Studio.

NEW SOUTH WALES "A" AND "E" CLASS BROADCASTING STATIONS.

2FC.—Farmer's Broadcasting Station, Ltd., Sydney, wavelength 442 metres, now 3095 watts.

2BL.—Broadcasters' Ltd., Sydney, wavelength 353 metres, power 5000 watts.

1GB.—Theosophical Broadcasting Station, Ltd., Sydney, wavelength 315 metres, power 3800 watts.

2KY.—Trades and Labor Council, Sydney, wavelength 228 metres, power 1500 watts.

2UW.—Ode Sandoz, Sydney, wavelength 257 metres, power 500 watts.

2MK.—Meckler Bros., Bathurst, wavelength 275 metres, power 200 watts.

2UE.—Electronic Utilities Supply Co., Sydney, wavelength 355 metres, power 250 watts.

2BE.—Burgin Electric Co., Sydney, wavelength 315 metres, 100 watts.

2HI.—H. A. Douglas, Newcastle, wavelength 245 metres, 100 watts.

Ask for the New 83X Philco Battery.

11.15 a.m.—Talk on "Croquet," by Miss Gwen Varley, Broadcasters' Women's Sports Authority.
 Social Notes: Replies to correspondents, by Mrs. J. Jordan.
 Talk on "Best Meat Cuts," by Mr. Osborne.
 12 noon.—G.P.O. Clock and Chimes.
 Special Ocean Forecast and Weather Report.
 12.3 p.m.—Brunswick Panatone Musical Recital.
 12.15 p.m.—Information: Mails, Shipping, and Port Directory.
 12.18 p.m.—Boats in call by wireless.
 12.20 p.m.—Fruit Market Report.
 12.22 p.m.—Vegetable Market Report.
 12.24 p.m.—London Metal Market Report.
 12.26 p.m.—Dairy and Farm Produce Market Report.

12.30 p.m.—G.P.O. Clock and Chimes.
 Foreign Market Report.
 12.32 p.m.—Fish Market Report.
 12.34 p.m.—Rabbit Market Report.
 12.36 p.m.—Stock Exchange Report.
 12.38 p.m.—News from the "Sun."
 12.45 p.m.—Hillier's Instrumental Quartet; Direction, Caryl Castling.
 1.27 p.m.—Stock Exchange Report.
 1.30 p.m.—G.P.O. Clock and Chimes.
 Talk to Children and Special Entertainment for Children in Hospital.
 2 p.m.—G.P.O. Clock and Chimes.
 Close down.

AFTERNOON SESSION.

Racing Information broadcast immediately after each Race, by courtesy of the "Sun."
 3 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 3.15 p.m.—Civil Service Stores' Trio; Direction, Miss de Courcy Bremer.
 3.20 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun."
 3.40 p.m.—Country Women's Session; Its Object, by Miss Wilkinson.
 3.50 p.m.—News from the "Sun."
 4 p.m.—G.P.O. Clock and Chimes.
 Civil Service Stores' Trio.
 4.15 p.m.—Serial Story.
 4.35 p.m.—Musical programme from Studio.
 4.50 p.m.—News from the "Sun."
 4.55 p.m.—Resume of night's programme.
 4.57 p.m.—Racing resume.
 4.59 p.m.—Special Ocean Forecast.
 5 p.m.—G.P.O. Clock and Chimes.
 Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.
 Children's Session.
 6.30 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and Chimes.
 Australian Mercantile, Land and Finance Co.'s Report.
 Weather Report and Forecast, by courtesy of Government Meteorologist.
 Producers' Discounting Society's Fruit and Vegetable Market Report.
 Stock Exchange Reports.
 Grain and Fodder Report ("Sun").
 Dairy Produce Report ("Sun").
 7.15 p.m.—Country News from the "Sun."
 7.20 p.m.—Talk by Mr. Gregory, of the N.R.M.A.
 7.30 p.m.—Talk on "Gardening Science," by Mr. Couper, Park Superintendent, City Council.

EVENING SESSION.

Radio Dance Night in aid of the funds of the Limbless Soldiers' Aquatic Association. You are requested to arrange a Dance in your home, invite your friends, tune-in to 2BL and Dance Music, played by A. Hammett and his Dance Band, broadcast from the Ballroom of the Ambassadors. A suggestion is made that you collect a small sum from each guest, and forward the amount received to the Hon. Social Organiser, Limbless Soldiers' Association, 3rd Floor, Wingo House, Annet Place, Sydney.
 8 p.m.—G.P.O. Clock and Chimes.
 Broadcasters' Topical Chorus.
 8.3 p.m.—Broadcasters' Trio.
 8.13 p.m.—Broadcasters' All-Sports Expert will talk on Cricket.
 8.28 p.m.—Broadcasters' Trio.
 8.38 p.m.—The Sporting Editor of the "Sun"

will talk on prospects of Saturday's Racing.
 8.58 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
 9 p.m.—G.P.O. Clock and Chimes.
 9.1 p.m.—Dance music.
 9.11 p.m.—Mr. Phil Mountain (comedian).
 9.15 p.m.—Dance music.
 9.25 p.m.—Miss Dorrie Ward (soprano).
 9.29 p.m.—Dance music.
 9.38 p.m.—Mr. Reg. Harrison (comedian).
 9.43 p.m.—Dance music.
 9.53 p.m.—Mr. Phil Mountain (comedian).
 9.57 p.m.—Dance music.
 10.7 p.m.—Miss Dorrie Ward.
 10.11 p.m.—Dance music.
 10.21 p.m.—Mr. Reg. Harrison.
 10.25 p.m.—Dance music.
 10.35 p.m.—Mr. Phil Mountain.
 10.39 p.m.—Dance music.
 10.44 p.m.—Miss Dorrie Ward.
 10.53 p.m.—Dance music.
 11.3 p.m.—Mr. Reg. Harrison.
 11.7 p.m.—Dance music until midnight.
 12 midnight.—G.P.O. Clock and Chimes.
 National Anthem.

7.45 p.m.—Music.
 7.45 p.m.—Address.
 7.50 p.m.—Announcements.
 7.55 p.m.—Instrumental Trio, Monica Horler.
 8 p.m.—Musical Solo, Adis Regula.
 8.5 p.m.—Address by Professor Keest Wood.
 8.20 p.m.—Songs by Madam Weidole.
 8.28 p.m.—An half hour of Chamber Music.
 Dean Scully, Monica Horler, Murielle Laug, Charles Bodd, Adis Regula.
 9 p.m.—Address by J. R. Bywell.
 9.35 p.m.—Songs by Lois Zubinski.
 9.38 p.m.—Songs by Madam Weidole.
 9.21 p.m.—Cello solo, Murielle Laug.
 1 "Thais" (Mauser).
 9.40 p.m.—Songs by Lois Zubinski.
 9.50 p.m.—Talk.
 10 p.m.—Close down.

2 WJ, SYDNEY

Sandel Radio, Ltd.

Wave Length, 267 Metres.

Friday.

9 p.m.—News, shipping, mails, Studio items.
 9.55 a.m.—Women's Session.
 9.58 a.m.—Resume of forward programme.
 10 a.m.—Close down.
 2 p.m.—Studio Items.
 2.09 p.m.—Resume of forward items.
 5 p.m.—Dance and instrumental items from Studio.
 5.59 p.m.—Resume of forward programme.
 6 p.m.—Close down.
 7 p.m.—Where to Go.
 7.10 p.m.—Dance and instrumental items.
 7.20 p.m.—Col. Faris' Orchestra: Selection.
 7.40 p.m.—Studio selection.
 7.45 p.m.—Col. Faris' Orchestra: Selections.
 8 p.m.—Sonora selections.
 8.10 p.m.—Col. Faris' Orchestra: Selections.
 8.30 p.m.—Studio Items.
 8.45 p.m.—George F. Manuel, tenor: "The Sing The Songs of Arabs" ("Gondaliers").
 8.50 p.m.—Col. Faris' Orchestra: Selections.
 9 p.m.—George Manuel, tenor: "Sylvio."
 9.5 p.m.—Miss Jeanette Patterson: Pianoforte solo, Selected.
 9.10 p.m.—George F. Manuel, tenor: (a) "My Message."
 (b) "Thank God for a Garden."
 9.17 p.m.—Miss Jeanette Patterson: Pianoforte solo, Selected.
 9.22 p.m.—George F. Manuel, tenor: "At Dawning" (Madman).
 9.27 p.m.—Resume of forward programme.
 9.31 p.m.—Close down.

3LO, MELBOURNE

Broadcasting Co. of Anst.

Wave Length, 371 Metres.

Friday.

MIDDAY SESSION.

12 noon.—Melbourne Observatory. Time Signal. Metal prices received by the Australi Metals and Metals' Association, from the London Stock Exchange this day.
 British Official Wireless news from Turky, Reuters and The Australian Press Association cables. "Archie" news service.
 12.20 p.m.—STUDIO QUARTETTE: "Valse: The Maple of Love" (Vanis).
 12.30 p.m.—Official Opening of the Kyabram Agricultural Show, transmitted from the Kyabram Show Grounds.
 1 p.m.—Melbourne Observatory. Time Signal. Do something for somebody—Idleness is the worst Naughtiness.
 1.1 p.m.—STUDIO QUARTETTE: "Schere Fandango" (Macquarre).

INTERSTATE "A" AND "B" CLASS BROADCASTING STATIONS.

1LO.—Broadcasting Company of Australia, Ltd., Melbourne; wavelength 271 metres, power 5000 watts.
 2AR.—Associated Radio Co., Ltd., Melbourne; wavelength 516 metres, power 5000 watts.
 4QC.—Queensland Radio Service, Brisbane; wavelength 285 metres, power 5000 watts.
 5CL.—Central Broadcasters' Ltd., Adelaide; wavelength 295 metres, power 5000 watts.
 6WF.—Western Farmers, Ltd., Perth; wavelength 1250 metres, power 5000 watts.
 7ZL.—Tasmanian Broadcasters, Ltd., Hobart; wavelength 516 metres, 3000 watts.
 3DB.—The 3DB Broadcasting Co. Pty., Ltd., Capital House, Melbourne; wavelength 253 metres, power 500 watts.
 4UZ.—O. J. Nilsen & Co., Melbourne; wavelength 319 metres, power 100 watts.
 4GB.—Gold Radio Electric Service, Towns, Queensland; wavelength 284 metres, power 100 watts.
 5KA.—Sport Radio Broadcasting Station, Adelaide; wavelength 350 metres, power 1000 watts.
 6DN.—SDN Pty., Ltd., Adelaide; wavelength 213 metres, 500 watts.

Your Choice of Articles

WHAT DO YOU KNOW about broadcasting? Has it struck you that there are a thousand and one things going on in the broadcasting world, of which you are not aware until somebody tells you about them, weeks after they have happened? For instance, do you understand how vital is the question of Empire Broadcasting? Do you know what is being done about it, when it is likely to occur, and whether you will be able to listen-in to London? Do you know what the broadcasters are doing to give us better broadcasting, or whether it is possible to effect improvements in the existing scheme of broadcasting?

THESE ARE SUBJECTS which are of direct importance to every broadcast listener, and it is as well to know what well-known authorities have to say upon them.

THE OCTOBER ISSUE of "RADIO" deals with these matters, and with dozens of other subjects, each one of which presents some new angle of broadcasting or set building.

Here are some of the articles appearing in the October "RADIO":—

MAJOR W. T. CONDER, Director of SLO, contributes an article on **PROGRAMMES**, in which he supplies a complete answer to the critics who complain about broadcasting. Major Conder is an authority, and anyone reading this article will gain an entirely new impression of broadcasting.

SUPER POWER, RELAY STATIONS, OR BOTH? J. Garrick Eisenberg, an official of the Radio Corporation of America and formerly of the General Electric Company and United States Navy, is an impartial critic of the Australian Broadcasting situation. As an engineer of note, he discusses the technical advantages of certain suggestions. As a practical commercial man he sums up the possible results of his proposals. As an enthusiastic Radio fan he writes directly to the broadcast listener, and places before him a concrete article that everyone can understand and appreciate.

WHAT IS MIKE FRIGHT? Is it an acute attack of nervousness when first facing the Microphone, or is it a particular disability affecting those of a temperamental nature? Such well-known people as Scott Alexander, Alfred Cunningham, George Gee, etc., give you their impressions upon this absorbing subject.

EMPIRE BROADCASTING. J. E. Graham, an Australian in London, visits Gerald Marcuse, the famous English amateur, who is carrying out preliminary experiments in Empire Broadcasting, and tells us just what manner of man is Marcuse, and what he is doing.

FOR THE HOME SET Constructor there is a variety of articles which cannot fail to appeal.

THE SOLODYNE. Full constructional details of this famous long distance receiver, which has already proved so popular in Australia. This article presents some entirely new and advanced features.

THE SIMPLICITY ONE VALVE RECEIVER.

THE CHAMPION SIX. The combination of sensitivity, selectivity and purity is the feature of this Receiver. Transformer plus resistance coupled audio frequency gives purity. A separate regenerator valve supplies the reaction energy—an interesting departure from the ordinary. Full constructional details.

THE DESIGN AND CONSTRUCTION OF SMALL POWER TRANSFORMERS AND FILTER CHOKES, by J. G. Reed.

CRYSTAL CONTROL AND ZEPP AERIALS, by W. E. Coxon. In addition to being the Technical Director of 8WF, Mr. Coxon is an enthusiastic experimenter of high repute, and his article covers the question of this type of aerial thoroughly.

THE THREE VALVE REINARTZ RECEIVER. An inexpensive short wave receiver, etc., etc.

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 & NEW ZEALAND.
 Incorporating Sun, Leaf and Star.

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SEND 1/- FOR A SPECIMEN COPY.

Wireless Newspapers Ltd., 51 Castlereagh Street, Sydney

- 1.10 p.m.—Meteorological information.
Weather synopsis for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports for Victoria, Tasmania, South Australia, and New South Wales.
- 1.18 p.m.—LILLY BURNAND AND ARTHUR SLATER, Entertainers:
"Just a Song at Twilight."
"The Whistling Busby Boy."
- 1.25 p.m.—STATION TRIO:
"No. 2—First Movements" (Mendelssohn).
- 1.33 p.m.—MARIE LAWTON, will entertain you with Selections from her repertoire.
- 1.45 p.m.—STUDIO QUARTETTE:
"String Quartet" (Dvorak).
- 1.50 p.m.—REGINALD BRADLEY, Violin:
"Finale—Mendelssohn Concerto."
- 2 p.m.—Close down.
- Results of Secondary School Sports will be given as they come to hand.

AFTERNOON SESSION.

- 2 p.m.—Melbourne Observatory Time Signal.
- 3.1 p.m.—STUDIO QUARTETTE:
"In Arcadian Days" (Rossini).
- 3.10 p.m.—MISS FRANCES FRASER:
"Heroes in Fiction—Robin Hood."
- 3.25 p.m.—TASMA TIERNAN, Cello:
"Dance" (Schumann).
- 3.33 p.m.—ALMA HORLOCK, Soprano:
"So Saran Ross" (Arditi).
- 3.40 p.m.—STUDIO QUARTETTE:
"The Battle of Paderborn" (Bach).
- 3.44 p.m.—STUDIO QUARTETTE:
"The Song of the Mountain" (Elic).
- 3.50 p.m.—DOROTHY ROXBURGH, Violin:
"Berceuse" (Debussy).
- 3.57 p.m.—E. MASON WOOD, Baritone:
"A Birthday" (Owen).
"Go Lovely Rose" (Quiller).
- 4.4 p.m.—STUDIO QUARTETTE:
"Siring Quartette"—1st Movement (Banol).
- 4.10 p.m.—ALMA HORLOCK, Soprano:
"There Lies the Warmth of Summer" (Mallinger).
- 4.17 p.m.—STATION TRIO:
"Song of India" (Rinsky-Korsakoff).
- 4.24 p.m.—ALMA HORLOCK, Soprano:
"Siring Quartette"—Part 2 (Hanel).
- 4.28 p.m.—E. MASON WOOD, Baritone:
"The Sweetest Flower" (Hawley).
"Green Hills of Somerset" (Gosset).
- 4.30 p.m.—MRS. M. CALLAWAY MAHOOD will speak on
"The Art of Dictionation."
- 4.45 p.m.—"Herald" news service. Stock Exchange information.
- 5 p.m.—Close down.

EVENING SESSION.

- 5.30 p.m.—Answers to Letters and Birthday Greetings by "BILLY BUNNY."
6 p.m.—GWEN HUMPHRAY, Contralto:
"Blackbirds' Song" (Scott).
"Will o' the Wisp" (Spruel).
- 6.7 p.m.—MISS M. SHEPHERD has some very strange things to tell the children.
- 6.22 p.m.—ELISE BRADSHAW:
Songs at the Piano.
- 6.29 p.m.—BILLY BUNNY will tell the children about
"The Adventure of the Treasure Seekers."
- 6.40 p.m.—"Herald" news service. Weather synopsis. Shipping movements.
- 6.47 p.m.—Stock Exchange information.
- 6.52 p.m.—Fish Market reports by J. R. Borrett, Ltd. Rabbit prices.
- 6.58 p.m.—River reports.
- 6.58 p.m.—Newmarket Sheep sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Straw, Juice, Dairy Produce, Potatoes, and Onions.
- 7.12 p.m.—Market reports of fruit.

NIGHT SESSION.

- 7.15 p.m.—Under the auspices of the Department of Agriculture, MR. G. T. LEVICK, Science Field Officer.
"The House Fly."
- 7.30 p.m.—COLLINGWOOD CITIZENS' BAND:
March, "Sons of the Sea."
Fox trot, "Just the Same."
- 7.40 p.m.—LILLY BURNAND and ARTHUR SLATER:
In Selections from their repertoire.

- 7.50 p.m.—MR. H. K. LOVIE, will speak to you about:
"The effects of aerials on selectivity."
Mr. Love will be glad to attend to your wireless difficulties, and we ask you to write to him for any advice that you may require.
- 8 p.m.—THE HEALTH ASSOCIATION'S MESSAGE FOR TO-DAY IS:
"How long you live depends largely on how well you live."
- 8.1 p.m.—COLLINGWOOD CITIZENS' BAND:
Overture, "England's Boys."
March, "The Flag Victory."
- 8.10 p.m.—GLADYS LAMPE, contralto:
"Pinedim" (Elgar).
"Like to the Danauk Rose" (Elgar).
- 8.17 p.m.—VORRETT SOLO:
"Love's Old Sweet Song."
Part Solo, "Sweet and Low" (soloist, W. Simmonds).
- 8.25 p.m.—MR. C. J. WILLIAMS will comment on
"To-morrow's Stadium Event."
- 8.35 p.m.—COLLINGWOOD CITIZENS' BAND:
Grand Naval Fantasia, "Trafalgar."
- 8.45 p.m.—MARIE LAWTON, soprano:
Selected.
- 8.52 p.m.—MR. J. HOWLETT ROSS will speak on:
"The Battle of Trafalgar."
- 8.7 p.m.—HORATIO S. DICKSON, tenor:
"The Death of Nelson" (Brahms).
"Tinal on the Bowline."
- 9.14 p.m.—COLLINGWOOD CITIZENS' BAND:
Trumpet solo, "The Switchback" (soloist, A. Thorn).
Fox trot, "The Wanderer."
- 9.22 p.m.—Announcement. ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY IS:
"One man's efforts towards safety may be small, but all together we can do a great deal."
- 9.26 p.m.—"CARDIGAN"—Mr. H. A. Wolfe, sporting editor of the "Argus" and the "Australasian," will speak on to-morrow's races.
- 9.36 p.m.—COLLINGWOOD CITIZENS' BAND:
Intermezzo, "An Evening Song."
- 9.43 p.m.—GLADYS LAMPE, contralto:
"Easter Hymn" (Frank Bridge).
"My Prayer" (Squire).
- 9.50 p.m.—Road Notes, supplied by the Royal Automobile Club of Victoria. British official wireless news from Rugby.

- 9.57 p.m.—COLLINGWOOD CITIZENS' BAND:
Grand Selection, "Der Wildschutz."
10.4 p.m.—MARIE LAWTON, harpist:
Selected.
- 10.11 p.m.—"Argus" news service. Meteorological information.
- 10.15 p.m.—COLLINGWOOD CITIZENS' BAND:
Selected.
- 10.28 p.m.—HORATIO S. DICKSON, tenor.
"Till the Day."
"Love's Springtime" (Vincent).
- 10.36 p.m.—JOE ARONSON AND HIS SYNCPATENT SYMPHONISTS:
10.45 p.m.—BILLIE LORRAINE, soubrette:
"Little Honey Coo" (with ukulele).
"Sweet Hawaiian Sands" (with ukulele).
- 10.52 p.m.—JOE ARONSON AND HIS SYNCPATENT SYMPHONISTS:
11 p.m.—OUR GREAT THOUGHT:
"Happiness is increased not by the enlargement of the possessions, but of the heart."—Ruskin.
- 11.1 p.m.—JOE ARONSON AND HIS SYNCPATENT SYMPHONISTS:
11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Queensland Radio Service
Wave Length, 385 Metres.

Friday.

MIDDAY SESSION.

- 1 p.m.—Market reports, weather information, "The Daily Mail" and "The Daily Standard" news.
FROM HOTEL CARLTON:
1.20 p.m.—Lunch hour music, played by Hotel Carlton Symphony Orchestra.
FROM THE OBSERVATORY.
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—A programme of music from the Studio.
4.15 p.m.—"The Telegraph" news.
4.30 p.m.—Close down.
- EARLY EVENING SESSION.
5 p.m.—"Daily Standard" news, weather information, announcements.
4.15 p.m.—Lecture.
5.30 p.m.—Bedtime Stories, by "The Sandman."
- 7 p.m.—Market reports, stock reports,
7.30 p.m.—Weather news, announcements;
"Daily Standard" news.
7.45 p.m.—Standard time signal.
7.45 p.m.—Lecture: "Farming in Franco. Some Economic Phases," by Mr. J. F. F. Reid (Editor, "Queensland Agricultural Journal").

NIGHT SESSION.

RECITAL BY MRS. ROBERT BELL'S STUDENTS.

- The first portion of to-night's programme will comprise a Recital by the students of Mrs. Robert Bell, assisted by Mr. John Steel (tenor) and Mr. G. Clark (baritone). Accompaniment, Miss Rae Phillips.
- FROM THE STUDIO:
8 p.m.—Messa-soprano solo, "Butterfly Wings" (Phillips). Miss Thelma Marsh; soprano solo, "Graziella and Kind Art Thou, My Queen" (Brahms); soprano solo, "Love Pipes of June" (Davy). Mrs. Hector Douglas; vocal duet, "As I went A-Roaming" (Brahms). Mrs. Edwards and Mrs. Statham; soprano solo (a) "With Courty Phyllis" (Phillips). (b) "The Girge" (Phillips). Miss Ella Rice; contralto solo, "When the Flowing Tide Comes In" (Barby). Miss Sarah Isaacs; soprano solo, "Schubert's Serenade" (Schubert). Miss Eileen Hegarty; soprano solo, "Morning" (Simpson). Mrs. Angus, tenor solo, selected. Mr. John Steel; mezzo-soprano solo, "Sleepy Hollow Tune" (Koutas). Miss Phyllis Foley; soprano solo, "Cuckoo

NEW ZEALAND STATIONS:

(Corrected List.)

1YA, Auckland, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 500 Watts; Wave-length, 333 Metres. Silent Night, Monday.

2YA, Wellington, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 8000 Watts; Wave-length, 420 Metres.

3YA, Christchurch, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 500 Watts; Wave-length, 306 Metres. Silent Night, Thursday.

4YA, Dunedin, The Radio Broadcasting Co. of New Zealand, Ltd.
Power 750 Watts; Wave-length, 463 Metres.

ASTOUNDING BUSINESS

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High energy transfer on top of broadcast band, efficient, selective and beautifully finished.

45/- per kit of three



AMPERITE is the only fully automatic filament control—refuse to accept any lower priced imitations.

Price 6/9 each.

Metropolitan Electric Co. Ltd., 27-29 King St., Sydney
And at Melbourne, Brisbane, Auckland, Hobart and Launceston.

All High-class Dealers Stock Radiokes.

Calli" (Brach), Miss Everingham; vocal duet, "From Dreama Patrimonia—Hansel and Gretel" (Humperdinck), Miss Ella Rice and Miss Lil Cunley; mezzo-soprano solo, "Love's Valley" (Foster), Miss E. Sutherland; soprano solo, "Sing Sweet Bird" (Bizet), Mrs. Edwards; soprano solo, "San-tuzza's Song" (From "Cavalleria" Runiciano"—Mancagni), Miss Ruth Portrale; vocal duet, "Miserere Nobis" (From "Hi Tristano") (Verdi), Mrs. Robt. Bell and Mr. John Steel. PART II. (To commence at 8 p.m.).

ONE-ACT DIGGER PLAY: "THE BATTALION REUNION"

Written and produced by Miss Thelma Champion. Instrumental music by the Studio Orchestra. Mechanical effects by Mr. Robt. Gibbs.

"The Battalion Reunion" in a sequel to "On Duty" and "Tomorrow Sunday"—the one-act digger plays which have been broadcast from IQG. In it the adventures of four Diggers who meet after twelve months in civilian clothes are depicted.

SYNOPSIS: Scene 1: At the Anzac Club, Brisbane. Scene 2: "At 'Snowy's' Home."

CAST:—"Dad," Mr. Tom Miller; "Snowy," Mr. Ray Bruce; "Bill," Mr. Hugh Gilroy; "Longman," Mr. J. P. Cornewell; "Yvonne," Miss Thelma Champion; "The Colonel," Mr. Gen. Williamson. Battalion acquaintances, speakers, taxi drivers, etc., by IQG artists and staff.

MUSICAL NUMBERS:—The musical numbers will include: Odettes, "Comrades in Arms," "The Banjoer's Wavve"; duets, "The Battle Eye," "Roses of Plakarry"; solos, "The Death of Nelson," "Just Before the Ethel Mother," "Dals," "A Chip of the Old Block," "I Was Dreaming," "I'll Be All the Same"; monologues, "Tummy," "Trencher"; trios, "The Kluge," "Our Battalion," "Allen Corners," "The Ladies"; choruses, "French Blowers," "Sweet Genevieve"; "When the Sussel Turns the Ocean's tides to Gold," "Madie, from Armentieres," "Sweet Adeline," "When Macey was a Little Boy," "The End of a Perfect Day."

10.50 p.m.—"The Daily Mail" news, weather news. Close down.

5CL, ADELAIDE

Wave Length, 395 Metres, Central Broadcasters, Ltd.

Friday

12 noon.—G.P.O. chimes.
12.1 p.m.—General information and "Advertiser" news service.
12.30 p.m.—Musical items on the Sonora.
"Hungarian Fantasy" (Liszt). Pianoforte solo by Percy Grainger.
"Where my caravan has rested" (Lohr). "I'll sing thee songs of Araby." Tenor solos by Hubert Ebbell.
12.55 p.m.—Market reports.
12.57 p.m.—Weather report.
1 p.m.—Musical items on the Sonora.
"Dready night in Honolulu" (Hampton).
"The Farmer's Dream" played on the Steel Guitar by Frank Perera.
"No No Naupete."
"Will you forgive."
"Maire my girl." Sung by Arthur Jordan.
1.15 p.m.—"Advertiser" news service.
1.30 p.m.—"Tangled Tunes" played by the Casino Orchestra.
1.45 p.m.—"Wildflower."
"Spanish Shawl."
"Oh Lady be good."
3 p.m.—Weather report and close down.

AFTERNOON SESSION.

3 p.m.—Chimes.
3.1 p.m.—Relay from the Maple Leaf Cafe—Orchestral selections.
Selection, "Talia" (Jean Gilbert).
Fox Trot, "When we do dance" (Gershwin).
Instrumental trio, "Andante" (Kreisiger).
Pianoforte solo, "Dance Etienne" (Goddard).
Solo, "Ringside Seated" (Brook).
1.45 p.m.—From the studio.
Musical items on the Sonora.
"The Snowy breasted pearl."

"Kathleen Mavourneen." Tenor solos by Frank Mullins.
"Honey Bunch."
"Hello Aloha."
"Love's Bonus."
"Love's sweet song." Carrie Herwin, contralto.

4 p.m.—Orchestral selections from the Arcadia Cafe.
Overture, "Morning man and night" (Suppe).
Fox trot, "Lucky Day" (Morot).
"Rains of Spring" (Sinding).
"Vivant" (Zamesnik).
Selection, "The Blue Mazurka" (Lohar).
Violin solo, "Benedictus" (Mascagni).
Entracte, "Gavotte from Mignon" (Thomas).
4.55 p.m.—Market reports.
8 p.m.—Chimes and close down.
6 p.m.—G.P.O. chimes.

6.1 p.m.—Dinner Music from the Covent Garden Restaurant.
Selection, "The Merry Widow" (Lohar).
Fox Trot, "My Gypsy's Due" (Tilzer).
Gavotte, "Powder and Patch" (Fletcher).
Finale, "Sounds from the Sunny South" (Schorran).

6.50 p.m.—Bedtime stories.
7.15 p.m.—Messrs. S. C. Ward and Co's Stock Exchange Intelligence. Market reports by Messrs. A. W. Skudford and Co., A. E. Hays and Co., Boleys and Co., S. A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, J. H. Young's special report on the tomato market. Interstate Fruit and Produce Market Company Ltd., Baw Fish Market Report.

7.20 p.m.—Windbag's sporting service.
7.30 p.m.—Special Broadcast.

"ELECTRIC NIGHT"

Today is the anniversary of the birth of the electric lamp and a world wide celebration is being held. In connection with the celebration the Radio Broadcast Bureau and Station 2FC, have arranged with 5CL to rebroadcast a special programme from Farmers' Studio, Sydney.
Announcement, Edwards.
A message from Edison.
Scott Alexander presents an original Electric episode entitled "The Birth of the Electric Lamp."
State Governor's message.
Vocal item.
Scott Alexander presents an original radio play entitled "The Electric House."
Introducing Electric piano, electric gramophone, Electric radio receiver.
Address by a leader in the Electrical Industry.

8.30 p.m.—Overture, Studio Orchestra.
8.40 p.m.—Comedy sketch, Mr. Wm. Range.

8.45 p.m.—Selection, Studio Orchestra.
9 p.m.—G.P.O. Chimes.
9.1 p.m.—Weather report.
9.2 p.m.—Delety's weak report.
9.4 p.m.—Comedy sketch, Mr. W. Range.
9.42 p.m.—Tenor solo Mr. Keith Clark.
9.45 p.m.—Selection, Studio Orchestra.
9.50 p.m.—Talk arranged by the Agriculture Department Mr. J. H. Ayus, "The House of the Future" (Laird).
9.55 p.m.—Tenor solo, Mr. Keith Clark.
9.58 p.m.—Selection, studio Orchestra.
10 p.m.—Comedy song, Mr. Wm. Range.
10 p.m.—G.P.O. chimes.
10.3 p.m.—"Advertiser" news service and Windbag's sporting service.
10.55 p.m.—Selection, Studio Orchestra.
10.59 p.m.—Relay from Glenelg—The Maison 1 Dance Band.
11.10 p.m.—Saturday's programme and weather report.
11.15 p.m.—National Anthem and close down.

6WF, PERTH

Westralian Farmer's, Wave Length, 1250 Metres.

Friday.

12.50 p.m.—Tune in.
12.55 p.m.—Market, Marina, News, and Cables.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Quintette.
2 p.m.—Close down.
3.30 p.m.—Tune in.
3.35 p.m.—Organ music, relayed from the Grand Theatre, Murray Street.
Vocal and instrumental interludes from the Studio.
4.30 p.m.—Close down.
4.45 p.m.—Tune in.
6.50 p.m.—Musical evening for the Kiddies, by Uncle Henry and Duffy.
7.30 p.m.—Stocks, Markets, News.
7.45 p.m.—Racing Talk by the Sporting Editor of "Truth" Newspaper, Coy.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

OPERATIC NIGHT.

8.3 p.m.—Operatic Numbers by the Madrigal Singers:
Miss Ewendobry Bray, A.R.C.M., soprano.
Mr. A. C. Fisher, tenor.
Miss Zoe Lenzang, contralto.
Mr. Lindsay G. Dodd, baritone.
Items by the Misses Sutton and Foley, instrumental duo, of the s.s. Karoola.
9 p.m.—Talk: "Gardenic Notes," by Mr. E. A. Hughes, representing Messrs. Dawson and Harrison, Ltd.
10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Co.
Ships within range announcement.
Weather Report and Forecast.
10.50 p.m.—Close down.
100 METRE TRANSMISSION.
Simultaneous Broadcast on 100 Metres of Musical programme given on 1250 Metres, commencing at 8 p.m.

7ZL, HOBART

Tasmanian Broadcasters, Ltd. Wave Length, 576 Metres.

Friday

MORNING SESSION.

11 a.m. to 12 noon.

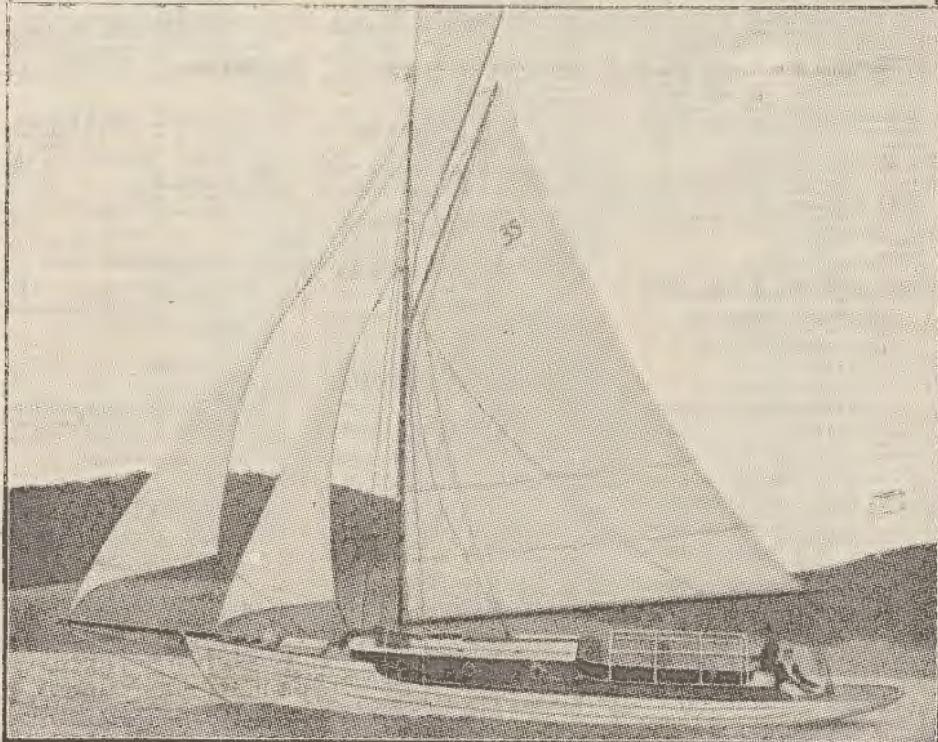
AFTERNOON SESSION.

3 p.m.—G.P.O. Clock chimes.
3.1 p.m.—Tune in selection.
3.5 p.m.—Hobart Stock Exchange quotations. Weather information.
Items of interest; announcements.
1.15 p.m.—Orchestral selection by 7ZL Studio trio.
4.15 p.m.—Educational talk.
4.30 p.m.—Close down.

FOREIGN BROADCASTERS.

JOCK—Nagoya Radio Broadcasting Co., Nagoya, JAPAN: 360 metres, 1000 watts. (Announcement in English and Japanese).
JOBE—Osaka Central Broadcasting Co., Osaka, JAPAN: 385 metres, 1000 watts. (Announcement in English and Japanese).
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2BL, SYDNEY

Saturday.

EARLY MORNING SESSION.—7 to 8 a.m.

11 a.m.—G.P.O. Clock and Chimes.
Musical programme from the Studio.
11.45 a.m.—Social Notes, by Mrs. Jordan.
Talk on Simple Cooking for Children, by Mrs. Jordan.

AFTERNOON SESSION.

Racing Information broadcast immediately after each Race, by courtesy of the "Sun."
12 noon.—G.P.O. Clock and Chimes.
12 noon.—Ocean Forecast and Weather Report.
12.3 p.m.—Brunswick Panatrophe Musical Recital.
12.30 p.m.—News from the "Sun."
12.35 p.m.—Sporting and Athletic Pictures.
12.38 p.m.—What's on at the Pictures and Theatre.

12.40 p.m.—Musical programme from the Studio.
12.40 p.m.—News from the "Sun."
12.50 p.m.—Racing resume.
12.55 p.m.—Musical programme from the Studio.

1.0 p.m.—G.P.O. Clock and Chimes.
Musical programme from the Studio.
1.10 p.m.—Sporting Talk and Athletic Pictures for the day.

1.20 p.m.—Musical programme from the Studio.
1.30 p.m.—G.P.O. Clock and Chimes.
Talk to Children and Special Entertainment for Children in Hospital.
2 p.m.—G.P.O. Clock and Chimes.
Social Story.

2.15 p.m.—Musical programme from the Studio.
2.25 p.m.—Racing resume.
2.30 p.m.—G.P.O. Clock and Chimes.
News from the "Sun."

During the Afternoon Sporting Information will be broadcast, by courtesy of the "Sun," interspersed with musical items, from the Studio.

5 p.m.—G.P.O. Clock and Chimes.
Racing resume.
Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.
Children's Session.
6.30 p.m.—Musical programme from the Studio.
7.15 p.m.—Result of the day's Sporting.
7.30 p.m.—Country News from the "Sun."

EVENING SESSION.

8 p.m.—G.P.O. Clock and Chimes.
Broadcasters' Topical Chorus.
8.5 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.
9.13 p.m.—Mr. Clement Williams (baritone).
9.20 p.m.—The Ahad Duo (steel guitars).
9.27 p.m.—Mr. Harry Cash (comedian).
9.34 p.m.—Twenty Minutes of Harmony and Humour, by the Quaker Maids.
9.44 p.m.—Broadcasters' Light Orchestra.
9.4 p.m.—Mr. Clement Williams.
9.51 p.m.—The Ahad Duo.
9.58 p.m.—Mr. Harry Cash.
9.25 p.m.—Broadcasters' Light Orchestra.
9.35 p.m.—The Quaker Maids.
9.55 p.m.—Resume of following day's programme.
10 p.m.—G.P.O. Clock and Chimes.
10.1 p.m.—Broadcasters' Light Orchestra.
10.11 p.m.—The Ambassadors Dance Band.
Broadcast from the Ballroom of the Ambassadors. During intervals between dances "Sun" news will be broadcast.
12 midnight.—G.P.O. Clock and Chimes.
National Anthem.

2 UW, SYDNEY

Saturday.

7 p.m.—Where to Go.
7.10 p.m.—Pianoforte selections:
(a) "Humoreski" (Dvorak).
7.15 p.m.—(b) "Valse Parisienne."
7.20 p.m.—Organ solo, Professor C. Baiter.
"Rhapsody" (Luchner).

EARLY EVENING SESSION.
8.30 p.m.—Children's Corner with the "Radio Lady."
8.45 p.m.—Gardening chat by Mr. George Nation.

NIGHT SESSION.
7.30 p.m.—Musical selection. Fruit Poultry and produce reports through the courtesy of Roberts and Co., Hobart.

7.45 p.m.—Gardening talk by Mr. George Nation, Glen Nurseries Caswell.

7.50 p.m.—"Mercury" special Tasmanian news service. Railway station produce sales. Hobart Stock Exchange quotations.

8 p.m.—G.P.O. Clock chimes.

8.1 p.m.—Sports Budget supplied by Mr. H. W. Newton of Hobart Sports Dept., Collins St., Hobart.

8.5 p.m.—Studio Concert:
Miss Edith Knight (mezzo-soprano), Miss E. Henry (soprano), Miss Bertha Marshall (soprano), Miss Ruby Piesse (pianist), Mr. Victor Charash, (banjo solo), Mr. G. Bocham (baritone), Mr. Harry Foster (baritone).

9.30 p.m.—Sporting chat by "Mid Off."
9.40 p.m.—British Official Wireless news.
9.50 p.m.—"Mercury" special Tasmanian news service. Ships within wireless range. Tasmanian District weather reports. 9 p.m. Weather forecasts. Station announcements. Travellers week-end information. National Anthem.

Saturday, Oct. 22
2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and programs announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news service.
10.30 a.m.—Studio music.
10.35 a.m.—A talk by the 2FC Racing Commissioner.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Studio music.
11.5 a.m.—A.P.A. and Reuter's Cable services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on Gardening by Mr. G. J. Lockley ("Redgum").
11.40 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

12 noon—"Big Ben" and announcements.
12.5 p.m.—Stock Exchange, first call.
12.5 p.m.—Studio music.
12.50 p.m.—"Sydney Morning Herald" news service.
12.52 p.m.—Rugby wireless news.
12.55 p.m.—Studio music.
Note: During the afternoon a description of the Caulfield Cup will be relayed from S.L.O. Melbourne.
Racing events direct from Canterbury Park will be described in the running by the 2FC Racing Commissioner.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service.
1.20 p.m.—Studio music.
During racing intervals the following musical items will be heard:
The Crystal Palace Theatre Orchestra under the baton of Mr. Harry Stoue.
G.H. Arnold, twenty pianist.
Eid Montigue, Ukulele numbers.
4.34 p.m.—A complete resume of the day's sporting events.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.
5.45 p.m.—The "Hullo Man." Talks to the children.
6.30 p.m.—Story Time for the Young Folks.
6.40 p.m.—Studio Music.
7.0 p.m.—"Big Ben": Weather Intelligence.
7.1 p.m.—"Evening News" Late News Service.

NIGHT SESSION.

7.30 p.m.—Programme Announcements.
7.33 p.m.—Peggy Post, Soubrette.

7.42 p.m.—Dagmar Thomson, Violinist.
(a) "Collauro" (Mieczkowski-Sarasate).
(b) "Gaudius Fracassa" (Castiglione-Tedesco).

7.50 p.m.—Madame Emily Marks, Soprano.
8.0 p.m.—From the Prince Edward Theatre, Castlereagh Street, Sydney: The Prince Edward Theatre Orchestra, under the baton of Mr. Albert Catalano.
Memo from the Orchestral score and vocal prologue to the film,

"IFN HUR."

1. Introductory Music, Albert Casabon and Concert Orchestra.
2. Leslie V. Harvey at the Orchestral Organ, "Melody of Love," from "Gipsy Love."
3. "Thrilling Around the World: A Fox Variety arranged by Hal, II, Appleton."
4. Albert Casabon and the Prince Edward Concert Orchestra, playing selection, "Overture to "Rienzi!""
5. John Priora, well known tenor, rendering "Star of Bethlehem," in atmospheric Prelude to "Ben Hur."
6. 8.45 p.m.—From the Studio: Victor Evans, Baritone.
8.57 p.m.—Dagmar Thomson, Violinist, "Andante" from "Symphony" (Espagnol-Lalo).
- 9.4 p.m.—Late Weather Forecast: Charles Lawrence, Entertainer, "After the Accident."
- 9.10 p.m.—A Studio Production of Scenes from the drama, "The Light That Failed." Played by H. W. Varna and Company, by arrangement with J. C. Williamson, Ltd.

ACT I.

CAST:

- Diek Heider H. W. Varna
Torpenhow Percy Morris
Cassovetti H. J. Salez
Hosson Arthur Miller
Hume William Hume
Mrs. Harvey Constantine Emlyn
Red Headed Girl Florence Clark
Reeds Leo Barry
Maiste Meg Service
8.38 p.m.—Charles Lawrence, Entertainer, (a) "Bridgroom Oration" (By Request).
9.42 p.m.—Peggy Post, Soubrette.
9.50 p.m.—Act Two of "The Light That Failed," produced by H. W. Varna and Company.
10.20 p.m.—Victor Evans, Baritone.
10.37 p.m.—Act Three of "The Light That Failed," produced by H. W. Varna and Company.
10.50 p.m.—Len Maurice, Popular Baritone.
10.57 p.m.—Late News and Announcements.
11.0 p.m.—"Big Ben"; Dance Music, interspersed with vocal choruses by Len Maurice.
11.45 p.m.—National Anthem; Close Down.

Short Wave Broadcasters

Schedules and Wavelengths Subject to Change.

RG-2NM, Gerald Marcuse, Caterham, England, 25 and 58 metres (B.B.C. Programmes).

EN-PCJ, Philips' Experimental Station, Eindhoven, Holland, 30.2 metres (B.B.C. Programmes).

NU-2XAF, General Electric Co., Schenectady, New York State, U.S.A., 30.67 metres (W.G.Y. Programmes).

NU-2XAG, General Electric Co., Schenectady, New York State 14, 26 and 52 metres (W.G.Y. Programmes).

NU-KDRA, Westinghouse Electric Co., Pittsburgh, Penn., U.S.A., 68.5 and 14 metres.

NU-WLW, Crosley Radio Corporation, Cincinnati, Ohio, U.S.A., 52 metres.

NU-2XAL, "Radio News," New York City, U.S.A., 30.61 metres (WRNY Programmes).

PO-JH, Johannesburg Broadcasting Company, South Africa, 20 and 25 metres.

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Filament current, amps.	0.6	0.6	.06	.06	.06	.06	0.3
Anode voltage . .	30—90	30—90	50—125	20—100	30—100	30—100	50—125
Total emission, m/a.	5	5	8.0	8.0	8.0	8.0	8.0
Impedance, ohms.	90,000	30,000	60,000	17,000	17,000	17,000	60,000
Purpose	Radio, also Coupling	Audio	Radio, also Resistance Coupling	Detector	Audio	Audio	Radio, also Resistance Coupling
	6/-	6/-	7/6	7/6	7/6	7/6	7/6
Type	D3 Det.	D3 L.F.	MD3	DFA0	DFA1	DFA3	DFA4
Filament voltage.	1.6—2.0	1.8—2.0	1.8—2.0	3.5	5.5	5.5—6.0	5.5
Filament current, amps.	0.3	0.3	0.3	0.35	0.2	.06	0.2
Anode voltage . .	20—100	30—100	30—100	50—100	50—100	50—100	75—125
Total emission, m/a.	8	8.0	8.0	20.0	25.0	15.0	15.0
Impedance, ohms.	16,000	16,000	16,000	7,000	8,300	13,000	27,000
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THE MASTER VALVE

- 7.27 p.m.—Ray O'Brien, soprano:
(a) "Somewhere a Voice is Calling."
(b) "Far Away From You."
7.34 p.m.—Victor Gatip, violin, solo:
(a) Hungarian Dance No. 5."
(b) "Cradle Song" (Pechotseh).
7.41 p.m.—Vera Turner, mezzo soprano:
Selected solos.
7.45 p.m.—James Jackson, baritone.
7.54 p.m.—Miss Ray O'Brien, soprano:
(a) "Vale" (Russell).
(b) "Loves Own Jinks" (from "High Jinks").
8.2 p.m.—Madame Arline Sauer,
Pianoforte solo, selected.
8.8 p.m.—Vera Turner, mezzo soprano:
Selected solos.
8.16 p.m.—James Jackson, baritone:
Selected solos.
8.25 p.m.—Victor Gatip, violin, solo:
(a) Selected.
(b) "O Star of Eve" (Wagner).
8.32 p.m.—Miss Sonia Seymour, soprano:
Selected solos.
8.40 p.m.—Harry Atfield, jazz interlude.
8.50 p.m.—Miss Sonia Seymour, soprano:
Selected solos.
8.58 p.m.—Organ solo, Professor G. Sauer:
"Priest" (Gullistan).
9.0 p.m.—Harry Atfield, jazz interlude.
9.16 p.m.—(Soloists selections).
9.28 p.m.—Resumé of forward programme.
9.30 p.m.—Close down.

3LO, MELBOURNE.

Saturday.

MIDDAY SESSION.

- 11 a.m.—JOE ARONSON AND HIS SYM-
PHONISTS.
11.10 a.m.—GLADYS LAMPE, contralto.
"O, Western Wind" (May Brahe).
"Can Ye By Athol?"—Scottish, (Arr. by G. A. Macfarlane).
11.17 a.m.—JOE ARONSON AND HIS
SYM-
PHONISTS.
11.27 a.m.—LILY BURNAND AND ARTHUR
SLATER, contraltos:
"I'll be your sweetheart."
"Louisiana."
11.37 a.m.—JOE ARONSON AND HIS
SYM-
PHONISTS.
11.47 a.m.—MARIE LAWTON, soprano and
Harpist:
Selected.
11.57 a.m.—JOE ARONSON AND HIS
SYM-
PHONISTS.
12 noon.—MELBOURNE OBSERVATORY
"TIME SIGNAL."
Metal prices received by the Australian
Miners and Metal's Association, from the
London Stock Exchange this day. British
official wireless news from Rugby. Reuters's
and the Australian Press Association cables.
Avis news service.
12.30 p.m.—JOE ARONSON AND HIS
SYM-
PHONISTS.
12.30 p.m.—GLADYS LAMPE, contralto:
"My Ain Folk" (Laura Lennon).
"Where the Bree Slacks" (Arne).
12.47 p.m.—Stock Exchange information.
12.40 p.m.—STUDIO QUARTET:
"String Quartet, No. 4—Allegro (Beethoven)."
12.50 p.m.—ALMA HORLOCK, soprano:
"Morning."
"Coquette" (Turner).
12.57 p.m.—JOE ARONSON AND HIS
SYM-
PHONISTS.
1 p.m.—MELBOURNE OBSERVATORY
"TIME SIGNAL." The bell strikes ONE—it
is the signal that demands dispatch. How
much is to be done.
1.1 p.m.—Description of Henley on the Yarra,
by Mr. Norman McCance.
1.15 p.m.—Meteorological information. Ship-
ping intelligence. Weather forecast for
Victoria, Tasmania, South Australia and
New South Wales. Ocean forecast. River
reports. Rainfall for Victoria, Tasmania,
South Australia and New South Wales.
1.25 p.m.—ALMA HORLOCK, soprano:
"I Never Knew" (Bell).
"Waltz Pol."
1.33 p.m.—TASMA TIERNAN, Cello:
"Chants Russes" (Saló).

- 1.40 p.m.—STUDIO QUARTET:
"No. 4 Scherzo" (Beehoven).
1.47 p.m.—Description of Henley on the Yarra,
by Mr. Norman McCance.
2 p.m.—Description of Miss Mia Murdoch, two
miles. Moonee Valley Races, by "Musket," of
The Sporting Globe.
2.3 p.m.—Description by Mr. Rod McGregor,
of cricket match between South Melbourne
and Northcote, at South Melbourne.
2.15 p.m.—Close down.
2.30 p.m.—Description of St. Albans Handicap,
for colts. Moonee Valley Races,
by "Musket," of "The Sporting Globe."
2.35 p.m.—Description of Henley on the Yarra,
by Mr. Norman McCance.
2.50 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—MELBOURNE OBSERVATORY
"TIME SIGNAL."
Description of W. S. Cox Plate, 2½ furlongs,
Moonee Valley Races, by "Musket," of "The
Sporting Globe."
3.2 p.m.—REGINALD BRADLEY AND
DOROTHY ROXBURGH, Violin and
Viola Duet:
"Andante Minuetto."
3.20 p.m.—Description by Mr. Rod McGregor,
of cricket match between South Melbourne
and Northcote, at South Melbourne.
3.30 p.m.—Description of St. Albans' Handi-
cap, 4 furlongs, Moonee Valley Races, by
"Musket," of "The Sporting Globe."
3.35 p.m.—Description of Henley on the Yarra,
by Mr. Norman McCance.
3.50 p.m.—STUDIO QUARTETTE:
Selection, "The Little Dutch Girl."
4.1 p.m.—Description of Moonee Valley Cup, 1
mile 2½ furlongs, by "Musket," of "The
Sporting Globe."
4.5 p.m.—STUDIO QUARTETTE:
"Oriental Suite" (Francis Popper).
4.30 p.m.—Description of Broadmeadows
Steeple, about 2 miles 8 chains, Moonee
Valley Races, by "Musket," of "The Sport-
ing Globe."
4.58 p.m.—Description of Henley on the Yarra,
by Norman McCance.
4.50 p.m.—"Herald" news service. Stock Ex-
change information.
5 p.m.—Description of Dundonald Welter, 6
furlongs, Moonee Valley Races, by "Mus-
ket," of "The Sporting Globe."
5.10 p.m.—Description by Mr. Rod McGregor,
of Cricket match, South Melbourne and
Northcote, at South Melbourne.
5.20 p.m.—Close down.
5.30 p.m.—EVENING SESSION.
5.40 p.m.—Sports results.
5.40 p.m.—Answers to Letters and Birthday
Greetings by "LITTLE MISS KOOKA-
BURRA."
5.10 p.m.—FRED NORTHCOTE, contralto:
"Little Brown Cottage" (Dickson).
5.17 p.m.—"LITTLE MISS KOOKABURRA"
has story for boys.
5.32 p.m.—FRED NORTHCOTE, contralto:
"Mister Bear" (Gaitly).
"Falling Leaves" (Schneider).
5.42 p.m.—"Herald" news service. Weather
reports. Shipping news.
5.42 p.m.—Stock Exchange information.
5.47 p.m.—Market reports.
5.50 p.m.—River reports.
5.52 p.m.—Newmarket Sheep sales by the As-
sociated Stock and Station Agents, Bourke
street, Melbourne. Market reports by the
Victorian Producers' Co., Ltd., Poultry,
Grain, Straw, Jute, Dairy Produce, Potatoes,
and Onions.
5.55 p.m.—Market reports of Fruit by the
Victorian Fruiters' Association.
NIGHT SESSION.
7.15 p.m.—Mr. W. A. STEVENSON, the New
Zealand champion sculler, will speak.
7.30 p.m.—Mr. F. CHAPMAN, of the National
Museum:
"The Fur of the Ocean."
Under the auspices of the Health Associa-
tion of Australasia our HEALTH MES-
SAGE for To-day is:—
"Preventive medicine is concerned with the
mind and spirit of man as well as his
body, with his habits and customs, his
work and recreation, as well as with the

housing of the people, their dietary,
physical exercise, and rest, with fresh air,
sunlight, the healthy life and joys of
living."—"The Times," 7/4/27.

- 7.45 p.m.—Mr. H. E. LAMPE:
"History of Tasmania."
The First Step—did the Water Gull?
8 p.m.—BRUNSWICK BRASS QUARTETTE:
"Scottia" (Roud).
"Passing Clouds."
8.10 p.m.—MELBOURNE CHORAL UNION:
Part Song, "Love" (J. C. Bridson).
Soldiers' Chorus: Faust (Godrod).
8.17 p.m.—REGINALD BRADLEY and AGNES
FOOTING:
"I've Left" (Hobart).
"Negro Spiritual" (C. C. White).
8.27 p.m.—MELBOURNE CHORAL UNION:
Madrigal, "Sweetest Flowers" (Walmisley).
Chorus, "Thanks be to God," Elijah (Men-
delsohn).
8.34 p.m.—BRUNSWICK BRASS QUARTETTE:
"Autumn."
"Winter."
"Grown Diamonds" (Auler).
8.40 p.m.—A Special Programme has been
arranged.
10.15 p.m.—BRUNSWICK BRASS QUARTET:
"La Figlia Del Regimento" (Donizetti).
10.23 p.m.—GLADYS LAMPE, contralto:
"Salam" (Lang).
"O, Night of Stars and Splendor" (Thomp-
son).
10.32 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYM-
PHONISTS.
10.40 p.m.—ARTHUR SLATER and LILY
BURNAND:
"Good-bye, Mignonette."
"Hello, Ma Baby."
10.50 p.m.—Late Sporting results.
11 p.m.—OUR GREAT THOUGHT FOR TO-
NIGHT IS:
"The Clouds have silver linings, don't
forget."
11.3 p.m.—JOE ARONSON AND HIS SYN-
COPATING SYM-
PHONISTS.
11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE.

Saturday.

NO MIDDAY TRANSMISSION.

AFTERNOON SESSION.

- 3.30 p.m.—A matinee for Little Lintoneta by
"Miss Waratah."
4.30 p.m.—Close down.

EARLY EVENING SESSION.

FROM THE STUDIO:

- 6.30 p.m.—Bedtime Stories, by "Uncle Ben."
FROM THE STUDIO:
7.15 p.m.—Beating results.
7.20 p.m.—To-day's Football Play described.
7.30 p.m.—Sailing Notes, by Mr. F. Smith.

NIGHT SESSION.

- To-night's programme will comprise the
broadcasting of a Recital from the Studio
of Mr. L. A. Pares.
FROM THE STUDIO OF MR. PARES:
8 p.m.—Pianoforte solo, "Country Gardens"
(Grainger), Miss Gertrude Anderson; violin
duet, "Hercules" (Mischa Heuser), Mr. Allen
Clark and Mr. L. Pares; song, "Schubert's
Serenade" (Mariano Bolero); violin solo,
selected, Mr. Hunnie Jagan; violin and flute
duet, "Andante in G" (Bainie), Miss
Paquita Gray and Mr. L. A. Pares; special
souvenir item, "The Things that We
Suffer" (Mr. Philip O'Brien); violin duet
and Miss Lily Harding; violin duet, "Bate-
ricelle" (Offenbach), Mr. Robt. Finlay and
Mr. L. Pares; violin solo, "Zueignungswesen"
(Sarasate), Miss Marion Walton; song, "The
Little Diamond" (Miss Ward); violin duet,
"Serenata" (Branga), Miss Thelma Asquith
and Mr. L. A. Pares; song, "Libro Santo"
(Pisanti), Professor Ellis; violin solo,
"Sixth Concerto (de-Berlioz), Mr. J. J. A.
Pares; original item, by Miss Maudie
McLean; Hawaiian selections, Miss Francis
Hawkins Band; tenor solo, "The Garden of
Your Heart," Mr. White (Welsh tenor);
violin duet, selected, Miss May Evans and
Mr. L. A. Pares.

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BURGESS RADIO BATTERIES

FROM LENNON'S BALLROOM:

10 p.m.—Dance music.
FROM THE STUDIO:
 10.30 p.m.—"The Sunday Mail" news.
 Weather news.
 Close down.

NOTE: During the evening the main motor cycle race at the Davis Park Speedway will be described.

5CL, ADELAIDE.

Saturday.

11 a.m.—Chimes.
 11.1 p.m.—General information and "Advertiser" news service.
 11.30 p.m.—Musical items on the Sonora.
 "Martial Moments."
 "The Mikado."
 "Simon the Cellarer."
 "I am a Friar of olden" Song by Harold Williams.
 12 noon.—Chimes and close down.

AFTERNOON SESSION.

1 p.m.—Relay from the Gawler Racecourse, where a running description of the Gawler Jockey Club race meeting will be given by Mr. Arnold Treloar. Interspersed with Interstate Sporting results and Musical items from the Studio.

EVENING SESSION.

6 p.m.—Chimes.
 6.1 p.m.—Dinner music from the Covent Garden Restaurant.
 "Canary Cottage."
 "Sanctuary of the heart."
 "Sam the accordion man."
 "Jolly Robbers."
 "So Blue."
 "Barcelona."

6.30 p.m.—Bedtime stories.
 7.25 p.m.—Messrs. S. C. Ward and Co.'s Stock Exchange Intelligence. Market reports by Messrs. A. W. Sandford and Co., A. E. Hall and Co., Dalrymple and Co., S. A. Farmers Co-operative Union, Taylor Bros., Retail Grocers Association, J. H. Young's special report on the tomato market. Interstate Fruit and Produce Market Company Ltd. General Sporting Information.

7.50 p.m.—Relay from St. Paul's Church, Eastry Street, Norwood, A Musical Play, "The Vanished American."
 Overture, "Joseph's Prayer" (Gresley), Mrs. C. Turner.
 Duet, "Indian Warrior's Grave" Misses M. Cornish and Minnie Turner.
 Chorus, "Tinkatonka" (Gresley), Maidens.
 Song, "Seeking Tinkatonka" (Gresley), W. J. Howarth.

Song, "The Indian Love Call" (Friml and Stebbins), Mr. George Turner.
 Song, "By the waters of Minnetonka" (Liaurance), Mrs. H. I. Velt.
 Duet, "Love's Echo" (Gresley), Miss M. Turner, Mr. W. J. Howarth.
 Chorus, "The Elphig Call" (Stephen Glover), Minnie Turner, Mable Cornish, Bernice Dyke, George Turner, Evelyn Velt, Evelyn Turner.

An appeal (Fletcher) Maidens.
 Weaving song, Miss M. Turner.
 Game Song, Bruce and Miss M. Turner.
 Chorus, "Merry the Maiden," The Company.
 8.30 p.m.—By kind permission of the management a description of the wrestling will be given from the Exhibition Building.

10 p.m.—Sporting results.
 10.15 p.m.—Relay from Gineleg—The Malson Dance Band.

6WF, PERTH.

Saturday.

12 noon.—Tune in.
 12.3 p.m.—Musical programmes, including Pianoforte Selections by Miss Evelyn Willis, A.H.C.M.
 12.45 p.m.—Markets, News, and Cables.
 1 p.m.—Time signal from Perth Observatory.
 1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
 1.2 p.m.—Close down.
 1.15 p.m.—Tune in.

SPORTING SESSION.

3.30 p.m.—Detailed description of the 76th Anniversary Meeting of the formation of the Western Australian Turf Club, relayed from the Ascot Racecourse, Belmont.
 Band music.
 Cricket results.
 5.30 p.m.—Close down.
 5.45 p.m.—Tune in.
 6.00 p.m.—Birthday greetings for the Kiddies, by Uncle Rag.
 7.10 p.m.—Sports results.
 7.20 p.m.—Markets, News, and Cables.
 7.45 p.m.—Talk.
 8 p.m.—Time signal from Perth Observatory.
 8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.

CONCERT NIGHT.

8.3 p.m.—Musical programmes, including vocal and instrumental numbers.
 Orchestral music by Hoyt's Orchestra, conducted by Mr. Harold Partington, relayed from Hoyt's Regent Theatre, William Street.
 Dance music, by Collie Smith and his Dance Orchestra, relayed from the Perth Palais Royal, Hay Street.
 10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy.
 Ships within range announcement.
 Weather Report and Forecast.
 Sports results.
 10.00 p.m.—Close down.

7ZL, HOBART

Saturday

MORNING SESSION.

11 a.m.—G.P.O. Clock chimes.
 11.1 a.m.—Tune in selection.
 11.5 a.m.—British Official Wireless News.
 11.10 a.m.—"Mercury" news service.
 11.20 a.m.—Shipping information. Ships within wireless range.
 11.35 a.m.—Mail notices. Commercial news.
 Foreign exchange market. Housewives guide.
 11.45 a.m.—Hobart Stock Exchange Quotations.
 11.50 a.m.—Sporting anticipations.
 11.55 a.m.—Tasmanian stations 9 a.m. weather report.
 12 noon.—G.P.O. Clock chimes. Close down.
AFTERNOON SESSION.
 4 p.m.—G.P.O. Clock chimes.
 5.1 p.m.—Sporting events or musical items from the studio.
 4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—"Uncle Peters" half hour.
 7 p.m.—"Annie Hector" talks to the children.

NIGHT SESSION.

7.30 p.m.—Musical selection.
 7.35 p.m.—Talk under the auspices of the Hobart Development League.
 7.50 p.m.—"Mercury" special Tasmanian news service. Sporting results. Weather forecast. Hobart Stock Exchange Quotations.
 8 p.m.—G.P.O. Clock chimes.
 8.1 p.m.—Broadcast by direct wire from Imperial Hotel, Hobart. Dance numbers by Mr. Sargent's Trio.
 10.30 p.m.—British Official Wireless News. Ships within wireless range. Weather information. Station announcements.
 National Anthem.

AFTERNOON SESSION.

2.55 p.m.—Programme announcements.
 3.1 p.m.—"Big Ben" from the Arendis Theatre, Cantwood. A programme produced by the Directors of the Theatre, in association with 2FC, in aid of the funds of the Royal North Shore Hosp. al.
 The Arcadian Theatre Orchestra. Conductor, Mr. James Davidson.
 Orchestral selections.
 Nicholas Robins; Selections on the "Wurlitzer" Organ.
 Vessel Schedules by leading SFC artists.
 5 p.m.—"Big Ben" Close down.

EVENING SESSION.

6 p.m.—"Big Ben" and programme announcements.
 6.5 p.m.—A Recital by the Pupils of Mr. William Dailison, Professor of the N.S.W. Conservatorium of Music.
 Song, "Vice di Donna" (Ponchielli).
 MISS VEIDA NELSON.
 6.9 p.m.—Song, "Ciel des Siècles" (Mozart).
 "Still as the Night" (Licht).
 MISS DOROTHY LODEN.
 6.14 p.m.—Songs: "O. Divine Redeemer" (Gounod).
 "Ave Maria" (Luzzi).
 MISS MADEIRA MAUSEN.
 6.19 p.m.—Songs: "In a monastery Garden" (Kittelle).
 "Vain" (Rausell).
 MR. JOSEPH HAGNEY.

NIGHT SESSION.

6.24 p.m.—MADAME EVELYN GRIEG: A talk on Grieg of music in life.
 6.36 p.m.—HERMAN WILLIS and CLYDE THORPE. Violinists; Duet, "Serenade" (Schubert-Janssen). Solo, "Idylle" (Burlchik).
 HERMAN WILLIS. Solo, "Tango" (Aiberti).
 CLYDE THORPE.
 6.40 p.m.—Items from the Recital by Mr. William Dailison, pianist.
 Songs: (a) "Hubbub" (Nordheim). (b) "In Quasta Terza" (Beethoven).
 MISS SYLVIE BEVEN.
 (a) "Hear ye Israel" (Mendelssohn). (b) "At the mid hour of night" (Cowen).
 MISS KATHLEEN McRATH.
 (b) "She Alone Charmeth My Sadness" (Gounod).
 (b) "Within These Sacred Bowlers" (Mozart).

MR. COLIN FERRETT.

7.7 p.m.—HERMAN WILLIS, Violin solo: "Slavonic Dance" (Bubna).
 7.11 p.m.—Clyde Thorpe, Violin Solo: "Serenade du Liganes" (Valdes).
 7.15 p.m.—Herman Willis and Clyde Thorpe. Duet: "Larghetto and Allegretto" from "Symphonic Concertino" (Alard).
 7.20 p.m.—Further items from the Recital by the Pupils of Mr. William Dailison:
 Songs:
 (a) "Case to Wound Me" (Scarlati).
 (b) "Dawn" (Curran).

MISS CLARA HUNT.

7.35 p.m.—Duet: "Nocturne" (Dempst).
 Miss M. Madison and Mr. J. Hagney.
 7.38 p.m.—The Baritone Solo, "Mark."
 7.39 p.m.—From St. Mark's, Darling Point: The Evening Service conducted by Canon Howard Lea.
 8.30 p.m.—Interval.
 8.35 p.m.—The Conservatorium Ladies' String Quartette.
 Quartette No. 18 ("Sunrise") (Haydn).
 1 (Allegro con spirito; Adagio).
 8.42 p.m.—Laurence Mearnsay, Baritone:
 (a) "Prayer to Our Lady" (Ford).
 (b) "Life and Death" (Taylor).
 8.48 p.m.—Frank Hutchens, Pianoforte Solo:
 (a) "Etude in A Flat" (Chopin).
 (b) "Nocturne in F Sharp Major" (Chopin).
 (c) "Etude in F Major" (Chopin).
 9.3 p.m.—Eileen Boyd, Contralto:
 9.6 p.m.—The Conservatorium Ladies' String Quartette:
 2. "Memento" ("Finale"; Quartette No. 19 ("Sunrise") (Haydn).

MORNING SESSION.

10.55 a.m.—Programme announcements.
 11 a.m.—"Big Ben" from the Fullerton Memorial Presbyterian Church, Mornington.
 12.15 p.m.—From the Studio: News Session.
 12.30 p.m.—Close down.

Sunday, Oct. 23

2FC, SYDNEY

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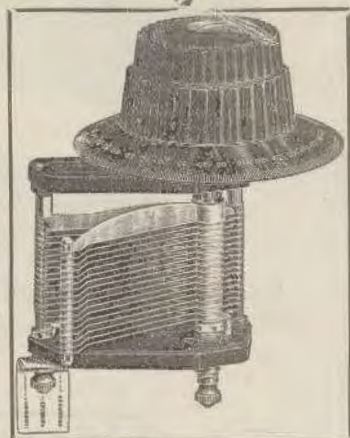
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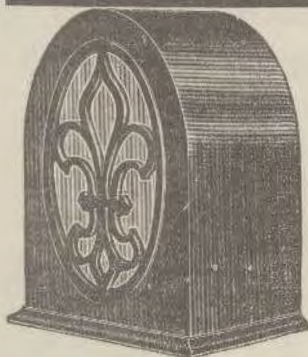


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- 9.29 p.m.—Eileen Boyd, Centralia.
 9.35 p.m.—Frank Hutchens, Pianoforte Solo:
 (a) "Arabesque" (Debussy).
 (b) "Baccarole" (Liszt).
 (c) "Rhapsody" (Lohmann).
 9.52 p.m.—Laurence Macaulay, Harp Solo:
 "Vale" (Keaneby Russell).
 9.55 p.m.—Eileen Boyd, Contralto:
 10 p.m.—The Conservatorium Ladies' String
 Quartette:
 (a) "Andante Cantabile" (Tchikowskij).
 (b) "Polka" (Glasgow).
 Miss Muriel Buchanan, Violin.
 Miss Dorothy Curran, Viola.
 Miss Florence Forsyth, Violoncello.
 Miss Rosamond Cornford, Cello.
 10.10 p.m.—National Anthem.
 Close down.

2BL, SYDNEY

Sunday.

MORNING SERVICE.

- 10.45 a.m.—Special News Service.
 11 a.m.—Service, broadcast from Chalmers' Presbyterian Church.

AFTERNOON SESSION.

- 3 p.m.—G.P.O. Clock and Chimes.
 Children's Session.
 3.15 p.m.—H.M.V. Gramophone Recital.
 2.45 p.m.—Information Service.
 3 p.m.—G.P.O. Clock and Chimes.
 Close down.
 3.30 p.m.—G.P.O. Clock and Chimes.
 3.51 p.m.—Organ Recital, broadcast from Chalmers' Presbyterian Church.
 4.30 p.m.—Bible Class, conducted by Mr. W. "Calvo" Braday.
 5.15 p.m.—Close down.

EVENING SESSION.

- 5.45 p.m.—Children's Service.
 7 p.m.—Service, broadcast from St. Jude's Church of England, Randwick.
 8.30 p.m.—Mr. Leslie Herford (baritone).
 8.37 p.m.—Broadcasters' Trio.
 8.47 p.m.—Miss C. L. Robertson (elocutionist).
 8.55 p.m.—Mr. Bryce Carter (cellist).
 9.2 p.m.—Weather Report.
 9.3 p.m.—Miss Gladys Verons (soprano).
 9.23 p.m.—Broadcasters' Trio.
 9.38 p.m.—Mr. Leslie Herford.
 9.40 p.m.—Miss C. L. Robertson.
 9.45 p.m.—Mr. Bryce Carter.
 9.55 p.m.—Resume of following day's programme.
 10 p.m.—G.P.O. Clock and Chimes.
 10.1 p.m.—Broadcasters' Trio.
 10.11 p.m.—National Anthem.

2GB, SYDNEY

Sunday.

- 10.15 a.m.—Music from St. Alban's Church, Randers.
 10.30 a.m.—Celebration of the Most Holy Eucharist.
 12 noon.—Close down.
 2.45 p.m.—Music from Studio.
 7 p.m.—Lecture from Adyar Hall.
 8 p.m.—Duets for two violins, Phyllis Campbell, Monica Fowler.
 8.15 p.m.—Songs by Alice Eadie.
 1. "There's a little blue heaven" (Paul Eadie).
 2. "Sleep you, my fairy."
 8.25 p.m.—Duets for two violins, Phyllis Campbell, Monica Fowler.
 8.33 p.m.—Songs by Alice Eadie.
 1. "The Little Old Cradle" (Paul Eadie).
 2. "Bring my Strawberries" (Oliver).
 8.40 p.m.—Address.
 10 p.m.—Close down.

2UW, SYDNEY

Sunday

- 10.20 a.m.—Carlton, "Harvest Home."
 10.25 a.m.—Remondor:
 "Ava Maria" (Hahn).
 10.40 a.m.—Studio selection.

- 10.45 a.m.—"Inchreut Nel" ("Good-night") (Fisch), soprano solo.
 10.50 a.m.—Orchestra selection:
 "Midsummer Night's Dream" Nocturne (Mendelssohn).
 10.55 a.m.—"La Calunnia" ("Zarbare di Siviglia") (Rossini), bass solo.
 11.3 a.m.—Carlton, "Lead, Kindly Light" (Sandon-Purley).
 11.8 a.m.—Studio selection.
 11.13 a.m.—"Elegy" (Mozart), tenor solo.
 11.18 a.m.—"Du sollst du Iner Frieden" (Hilsholtz), soprano solo.
 11.23 a.m.—Sonora selection.
 11.28 a.m.—"Mousses' Piano Overture" (Mozart), band selection.
 11.33 a.m.—"In questa tomba" (Beethoven), bass solo.
 11.38 a.m.—Sonora selection from Studio.
 11.43 a.m.—"Esercizio di Binet and Trio" (Mozart), band selection.
 11.53 a.m.—Studio selections.
 12.28 p.m.—Resume of forward programme.
 12.30 p.m.—Close down.
 7 p.m.—Studio Items.
 7.35 p.m.—Miss Mabel Ramsbotham.
 Violin solo: "Coronach" (Barrett).
 7.53 p.m.—Douglas Rae, tenor:
 "The Lord is My Light" (Allitesen).
 7.40 p.m.—Sonora selection.
 7.45 p.m.—Douglas Rae, tenor:
 "Where my Caravan has Rested" (Lohr).
 7.50 p.m.—Sonora selections from the Studio.
 8 p.m.—"Caldon Duo," steel guitar:
 (a) "Aloha Oi, waltz."
 (b) "Isle of Golden Dreams," waltz.
 8.5 p.m.—Douglas Rae, tenor:
 (a) "The Temple Bells."
 (b) "Less Than the Dust."
 (c) (Indian love lyrics—Woodford-Finden).
 8.15 p.m.—Caldon Duo, steel guitar:
 "Kaitina."
 8.19 p.m.—Sonora selections from the Studio.
 8.25 p.m.—Miss Mabel Ramsbotham:
 Violin solo, Overture (Wienkowitz).
 8.30 p.m.—Caldon Duo, steel guitar:
 "Nearer, My God, to Thee."
 8.38 p.m.—Studio selections.
 8.40 p.m.—Miss Mabel Ramsbotham:
 Violin solo, "Romans in D" (Rudenski).
 8.44 p.m.—Douglas Rae, tenor:
 "The Blind Ploughman" (Clarke).
 8.49 p.m.—Studio selections.
 8.59 p.m.—Caldon Duo, steel guitar:
 (a) "Medley."
 (b) "Hornblow Moon" (waltz).
 9.5 p.m.—Studio selections.
 9.25 p.m.—Resume of forward programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE.

Sunday.

MORNING SERVICE.

- 10.30 a.m.—Bells from St. Paul's Cathedral.
 10.45 a.m.—Express train information.
 British Official Wireless news from Rugby.
 11 a.m.—MORNING SERVICE FROM CHURCH OF CHRIST, SCIENTIST, ST. KILDA ROAD, MELBOURNE:
 Voluntary (Organ), "Adante" (Novello, Edition Novello).
 Hymn, No. 31, "The Christian warrior, see him stand."
 Scriptural: II. Timothy, 4. 1-8.
 Reading: Rev. 3: 7-13.
 Silent prayer, followed by the audible repetition of the Lord's Prayer, with its spiritual interpretation from page 16 of the Christian Science Text Book, "Science and Health with Key to the Scriptures," by Mary Baker Eddy.
 Hymn, No. 187: "O! gentle presence, peace and joy and pow'r."
 (Words by Mary Baker Eddy.)
 Announcements.
 Solo: "I know that my Redeemer liveth" (Handel).
 Offertory (Organ): "Andantino" (Wesley, Novello edition).
 Hymn No. 170: "How firm a foundation," Reading: The Scientific Statement of Being, from page 418 of the Christian Science Text Book and the corroborative Scripture, according to I. John, 3: 1-3.

- Benediction: I. Peter, 5: 10, 11.
 Postlude (Organ): "Andantino" (Wesley, Edition Novello).
 12.15 p.m.—Close down.

AFTERNOON SESSION.

- PLEASEANT SUNDAY AFTERNOON FROM WESLEY CENTRAL MISSION, LONS-DALE STREET, MELBOURNE.
 Chairman: Rev. Dr. S. F. HOBAN.
 Conductors: Mr. G. M. WILLIAMS.
 3 p.m.—Hymn No. 58: "Sing we the King who is Coming to Reign."
 Prayer: REV. J. H. GAIN.
 Orchestral Selection.
 Hymn No. 59: "O Love that will not let me go."
 Solo: Miss DOROTHY HUMPHRIES.
 Orchestra.
 Solo: Miss DOROTHY HUMPHRIES.
 Notices.
 Offering.
 Orchestra.
 Address: Dr. STANLEY ARGYLE:
 "What of Our Hospitals?"
 National Anthem.
 Benediction.
 4.30 p.m.—Close down.

EVENING SESSION.

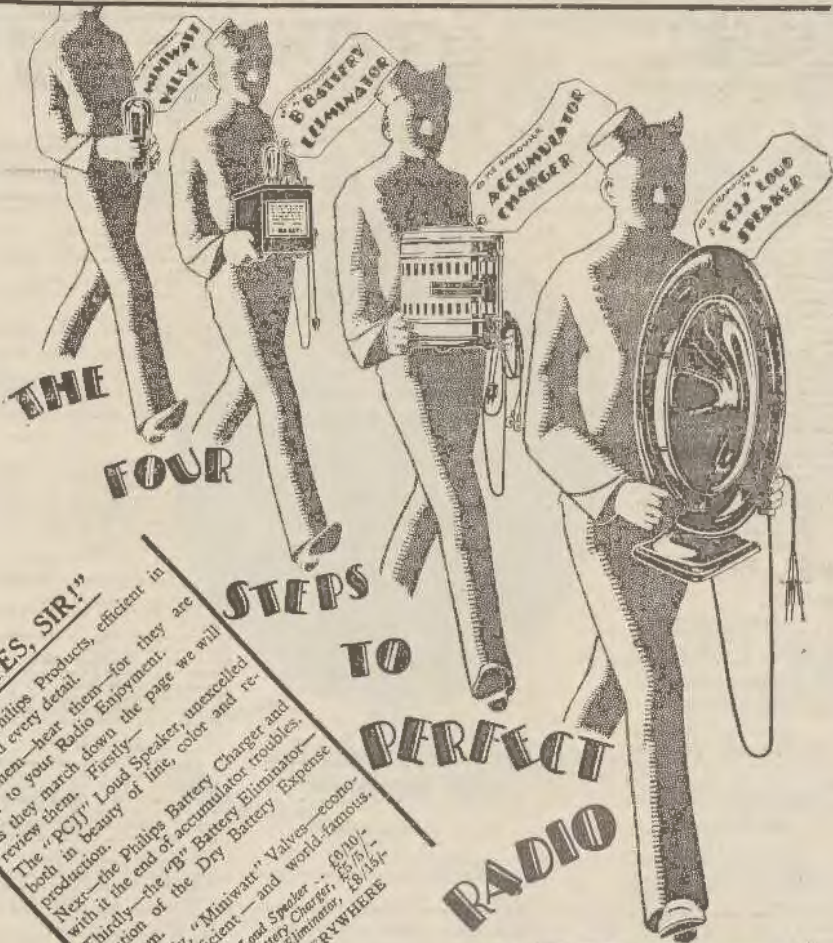
- 5.30 p.m.—Answers to Letters and Birthday Greetings by "BILLY BONNY."
 6 p.m.—"THE PIED PIPERS" will give their musical programme of Hymns and Choruses:
 Hymn, "Now to Heaven."
 Chorus, "Spring."
 Solo "When Rocks Fly Homeward," Hymn, "The Master's Call."
 Duet, "I Wish I were a Little Bird."
 Solo, "The Little Bird."
 Quartette, "Sweet and Low."
 Chorus, "Lullaby."
 6.25 p.m.—"BROTHER BILL" will talk to the boys and girls—
 "No Surrender."
 6.45 p.m.—Bells from St. Paul's Cathedral.

NIGHT SESSION.

- EVENING SERVICE FROM BAPTIST CHURCH, COLLINS STREET, MELBOURNE.
 Preacher: Rev. W. D. JACKSON, B.A.
 Organist: Dr. W. G. PRICE.
 CHURCH DIRECTOR: MADAME ELLA KINGSTON.
 7 p.m.—Sacrament. Call to Worship.
 Invocation and Lord's Prayer.
 Hymn, "One there is above all others."
 Scripture Reading.
 Hymn, "There is a Fountain."
 Notices.
 Offering.
 Offertory Prayer.
 Anthem, "Abide with me, fast falls the evening" (Barbry).
 Prayer.
 Hymn, "Nearer, my God, to Thee."
 Sermon, Rev. W. D. JACKSON, B.A.
 Hymn, "Around Thy Grave, Lord Jesus."
 THE ORDINANCE OF BAPTISM.
 Hymn, "Our best Redeemer."
 Benediction.
 For information of listeners to whom the form of the Baptismal Ordinance may be unfamiliar. The order is as follows: As each candidate approaches the Baptismal Font, Madame Ella Kingston sings one verse of the hymn, "I Lift My Heart to Thee." The Minister then pronounces the Baptismal Formula and the Candidate is baptised in the Pool. Following the Baptism of each candidate the choir sings a brief Triumphant Chant.

FROM THE STUDIO.

- 8.30 p.m.—THE HEALTH ASSOCIATION'S MESSAGE FOR TO-DAY IS:
 "A perfectly clean tooth will not decay."
 8.31 p.m.—BRUNSWICK CITY BAND:
 Overture, "The Great City" (Haydn).
 8.40 p.m.—MADAME ELLA KINGSTON, Soprano:
 "With Verdure Clad."
 Ariz from "The Creation" (Haydn).
 8.41 p.m.—BRUNSWICK CITY BAND:
 Selection, "Gounod" (Rimner).



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GWF, PERTH.

9 p.m.—SLO Melbourne has pleasure in introducing for the first time in Australia SENIA SPOSTIAKOFT, the Leading Tenor of the famous "Don Cossacks," who recently conducted a most successful tour of Australia and New Zealand.
Russian Screenas "Night" (Glinker).
"La donna è mobile," from "Rigoletto."
9.7 p.m.—BRUNSWICK CITY BAND:
Euphonium Solo, "Schlummerlied" (Van Breuse).
Soloist, C. Walker.
Intermezzo, "A Night in June" (Braidwood).
9.17 p.m.—MADAME ELLA KINGSTON, Soprano:
"I Mouth as a Dove" (Benedict).
"God's Garden" (Lambert).
9.25 p.m.—BRUNSWICK CITY BAND:
"Unfinished Symphony" (Schubert).
9.35 p.m.—SENIA SPOSTIAKOFT, Tenor:
"Snow" (Varlamoff).
"When the Stars were Brightly Shining," from "La Traviata."
9.42 p.m.—BRUNSWICK CITY BAND:
Hymn, "Rockdale" (Owen).
Air Varié, "Nearer, My God, to Thee" (McLeod).
9.50 p.m.—"Argus" news service. Announcements.
THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TO-DAY is for EVERYBODY. Thoughts are seeds. Think Safety. Sow the seeds of carefulness. Their fruits are success, prosperity, and happiness.
9.59 p.m.—OUR GREAT THOUGHT:
"While the world has many people who would suffer martyrdom in the cause of what they call truth, it has few who will suffer even a little inconvenience, in that of justice and mercy."—Ruskin.
10 p.m.—God save the King.

4QG, BRISBANE.

Sunday.
MORNING SESSION.
ST. PAUL'S PRESBYTERIAN CHURCH.
The complete Morning Service will be relayed from St. Paul's Presbyterian Church, Spring Hill.
FROM ST. PAUL'S:
11 a.m.—Morning Service.
12.30 p.m.—Close down.

AFTERNOON SESSION.

FEDERAL BAND.
The Concert by the Brisbane Federal Band (conductor, Mr. W. E. Evans) will be relayed from the Botanic Gardens.
FROM THE BOTANIC GARDENS:
3.15 p.m.—Band Concert.
4.30 p.m.—Close down.

NIGHT SESSION.

A QUEENSLAND ROMANCE.
FROM THE STUDIO:
6.30 p.m.—Quartette, "God is a Spirit" (from the sacred cantata, "The Woman of Samaria")—William Sterndale Bennett; Abion Baptist Church Mixed Quartette; Rev. D. Hewison (Queensland Baptist Home Mission Superintendent) describes "A Queensland Romance"; male quartette, "The Church in the Wildwood" (Dr. W. S. Pitts); Abion Baptist Church Male Quartette Party.
ST. PAUL'S CHURCH.
The complete Evening Service will be relayed from St. Paul's Presbyterian Church, Spring Hill.
7 p.m.—Children's Service.
FROM ST. PAUL'S:
7.50 p.m.—Evening Service.

BAND CONCERT.

At the conclusion of the Church Service the Concert by the Brisbane Municipal Concert Band will be relayed from Wickham Park. The programme will include:—Overture, "1812" (Tchickowsky); selection, "Il Trovatore" (Verdi); "Ballet Egyptian" (Ligeti).
9.59 p.m.—Close down.

Sunday.

10.45 a.m.—Tune in.
11 a.m.—Morning Service, relayed from Museum Street Baptist Church, Perth.
12.15 p.m.—Close down.
3.30 p.m.—Tune in.
FROM THE STUDIO.
3.55 p.m.—Musical programme, including vocal and instrumental numbers.
4.30 p.m.—Close down.
7 p.m.—Tune in.
7.5 p.m.—Children's bedtime stories.
7.50 p.m.—Evening Service, relayed from the Wesley Church, Perth.
AFTER CHURCH SERVICE.
3.45 p.m.—Musical programme, including Vocal and instrumental numbers.
10.5 p.m.—Close down.

7ZL, HOBART

Sunday.

MORNING SESSION.
11 a.m.—Divine service, St. David's Cathedral Hobart; at conclusion of Church service Boat Express information.
Close down.
AFTERNOON SESSION.
3.30 p.m.—Elegant Sunday afternoon concert from the studios.
4.30 p.m.—Close down.
EARLY EVENING SESSION.
6.30 p.m.—Children's Corner with the "Sunday Lady."
NIGHT SESSION.
7 p.m.—Church service from Memorial Congregational Church, Hobart. Preacher: Rev. A. C. Nelson.
At conclusion of Church service, concert from the Studio:
Mrs. Ken Dyer (soprano).
Miss Joan Dodd (sopranoist).
Mrs. Jack Green (soprano).
Miss Ruby Plesse (pianist).
Mr. Iley Statelife (baritone solo).
Mr. Thomas Spencer (baritone).
Mr. Frank Dalton (baritone).
3.40 p.m.—"Mercury" Special Interstate news service. British Official Wireless news. Ships within wireless range. 9 p.m. weather forecasts, Station announcements, National Anthem.

Monday, Oct. 24
2FC, SYDNEY.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.
MORNING SESSION.
10 a.m.—"Big Ben" and programme announcements.
10.5 a.m.—Studio music.
10.55 a.m.—"Sydney Morning Herald" news service.
10.59 a.m.—Studio music.
11.05 a.m.—Last minute racing information by the 2FC Commissioner.
10.55 a.m.—Studio music.
11 a.m.—"Big Ben." Marching music for school children.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.55 a.m.—A reading.
11.30 a.m.—Close down.
MIDDAY SESSION.
12 noon—"Big Ben," and programme announcements.
12.2 p.m.—Stock Exchange first call.
12.5 a.m.—Weather forecast rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning Herald" news service.
12.25 p.m.—Rugby wireless news.
12.30 p.m.—Marching music for school children.
12.40 p.m.—Kathleen Stollery, mezzo.
12.55 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

12.55 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news service. Producers' Distributing Society's report.
1.20 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
1.25 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Kathleen Stollery, mezzo.
1.45 p.m.—Studio music.
1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
2 p.m.—"Big Ben." Close down.
3 p.m.—"Big Ben" and programme announcements.
3.5 p.m.—A reading by the pupils of Mrs. Stuart Doyle.
3.30 p.m.—Marching music for school children.
3.40 p.m.—From Farmers' Tea Rooms, Florence Grant, soprano.
3.45 p.m.—THE OAK HALL TRIO (Mr. Horace Keals, Leader).
3.55 p.m.—From The Studio, Margaret Hunt, soprano:
"Dear Bird of Winter" (Gans).
4 p.m.—From Farmer's Tea Rooms, Jeanette Rooney, contralto;
Loudon Hridge (Melody).
4.15 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.15 p.m.—From The Studio, Annie Payne, mezzo:
"When a merry maiden marries" (Sullivan).
4.20 p.m.—From Farmer's Tea Rooms, Florence Grant, soprano.
4.25 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
4.35 p.m.—From Studio, Margaret Hunt, soprano:
"Bessie" (Del Riego).
4.40 p.m.—Jeanette Rooney, contralto, (from Farmer's Tea Rooms).
"Salaam" (Lang).
4.40 p.m.—Stock Exchange, third call.
4.45 p.m.—Annie Payne, mezzo:
"Blackbird's Song" (Scott).
4.50 p.m.—Studio music.
5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
6.45 p.m.—The "Hallo Man" talks to the children.
6.30 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
6.50 p.m.—Late sporting news.
7 p.m.—"Big Ben." Dalgety's market reports (wool, wheat and stock).
7.8 p.m.—Fruit and vegetable markets.
7.10 p.m.—Weather and shipping news.
7.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

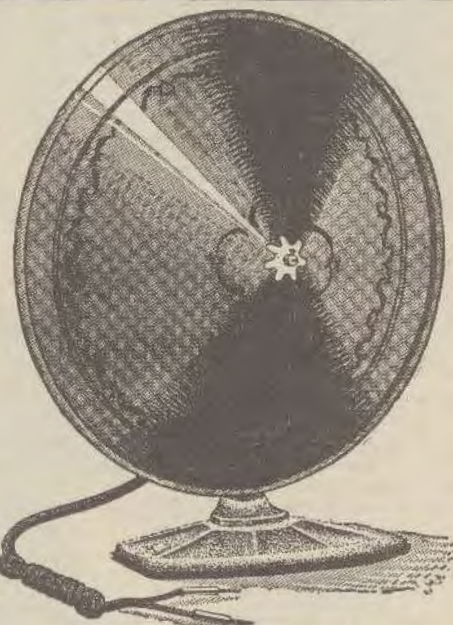
7.50 p.m.—Programme announcements.
7.55 p.m.—Marcus Burkett, pianist:
"Etude in E Flat" (Burgmüller).
7.44 p.m.—Ellis Price, Entertainer:
"The Fireman" (Anon).
7.53 p.m.—Charles O'Mara, Irish comedian:
(a) "The Darling Girl from Clare" (Callaghan).
(b) "Maggie Malone" (None).
8 p.m.—"Big Ben." The Haymarket Operatic Orchestra under the baton of Mr. Stanley Forster.
8 p.m.—From The Studio, Ellis Price, Entertainer:
"A few short-tail yarns" (Anon).
8.25 p.m.—From the Baptist Hall, Ultimo:
The Sydney Harmonic Society's Choir, Conductor, Bourne.
8.40 p.m.—Marcus Burkett, pianist: From the Studio.
8.47 p.m.—Peggy Dunbar, contralto, Old time songs.
8.55 p.m.—Charles O'Mara, Irish Comedian:
(a) "Brigid O'Flynn" (King).
(b) "Phil the Plumber's Ball" (Collins).
9.3 p.m.—Late weather.
9.3 p.m.—Alfred Cunningham, baritone:
(a) "The Bell Binger" (Wallace).
(b) "O Star of Eve" (Wagner).
9.10 p.m.—Vocal Act from the Haymarket Theatre, Sydney.
9.20 p.m.—From the Studio, Ernest Archer, tenor: Old-time memories.
9.27 p.m.—Ellis Price, Entertainer:
(a) "Tain o' mine" (Anon).
(b) "The Irish Sergeant Major" (Chamber).

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109 Collins Street, HOBART

- 9.32 p.m.—Peaky Darnbar, contralto.
 9.40 p.m.—From the Haymarket Theatre, Sydney. Orchestral Items, Conductor, Mr. Stanley Parter.
 9.50 p.m.—From the Baptist Hall, Ultimo. The Sydney Harmonic Society's Choir, Conductor W. Bourne.
 10.5 p.m.—From the Haymarket Theatre, Orchestral Items.
 10.19 p.m.—Aldred Cunningham, baritone, (from the Studio).
 (a) "Dreaming of Home" (Barley) (by request).
 (b) "Ruben Range" (Giesau).
 10.30 p.m.—From the Haymarket Theatre, Sydney. Orchestral Items.
 10.30 p.m.—From the Studio. The 2FC Dance Orchestra in popular numbers, interspersed with vocal items by Len Morris.
 Late weather forecast.
 11.30 p.m.—National Anthem.
 Close down.

2BL, SYDNEY

Monday.

- EARLY MORNING SESSION.—7 to 8 a.m.
 MORNING SESSION.
 9.30 a.m.—G.P.O. Clock and Chimes.
 Musical item from the Studio.
 10.10 a.m.—News from the "Daily Telegraph Pictorial".
 10.30 a.m.—Musical programme from the Studio.
 11 a.m.—G.P.O. Clock and Chimes.
 Announcements.
 11.5 a.m.—Musical programme from the Studio.
 11.15 a.m.—Talk on "Tennis," by Miss Gwen Varley, Broadcasters' Women's Sports Authority.
 Social Notes: Replies to correspondents, by Miss Jordan.
 Talk on "Breakfast and Health," by Mrs. Jordan.
 12 noon.—G.P.O. Clock and Chimes.
 Special Ocean Forecast and Weather Report.
 12.5 p.m.—Brunswick Fanstropo Musical Recital.
 12.15 p.m.—Information: Mails, Shipping and Post Directory.
 12.18 p.m.—Boats in call by wireless.
 12.20 p.m.—Fruit Market Report.
 12.22 p.m.—Vegetable Market Report.
 12.24 p.m.—London Metal Market Report.
 12.30 p.m.—Dairy and Farm Produce Market Report.
 12.30 p.m.—G.P.O. Clock and Chimes.
 Forage Market Report.
 12.32 p.m.—Fish Market Report.
 12.34 p.m.—Rabbit Market Report.
 12.36 p.m.—Stock Exchange Report.
 12.38 p.m.—News from the "Sun".
 12.38 p.m.—Hillier's Instrumental Quartet: Direction, Caryl Castling.
 1.27 p.m.—Stock Exchange Report.
 1.30 p.m.—G.P.O. Clock and Chimes.
 Talk to Children, and Special Entertainment for Children in Hospital.
 2 p.m.—G.P.O. Clock and Chimes.
 Close down.

- AFTERNOON SESSION.
 Racing Information broadcast immediately after each race, by courtesy of the "Sun".
 3 p.m.—G.P.O. Clock and Chimes.
 Musical programme from the Studio.
 3.10 p.m.—News from the "Sun".
 3.20 p.m.—Musical programme from the Studio.
 3.30 p.m.—News from the "Sun".
 3.40 p.m.—Dungowan Dance Band, broadcast from the Dungowan Cabaret.
 4 p.m.—G.P.O. Clock and Chimes.
 News from the "Sun".
 4.15 p.m.—Serial Story.
 4.30 p.m.—Dungowan Dance Band.
 4.40 p.m.—News from the "Sun".
 4.55 p.m.—Resume of night's programme.
 4.57 p.m.—Racing resume.
 4.59 p.m.—Special Ocean Forecast.
 5 p.m.—G.P.O. Clock and Chimes.
 Close down.

- EARLY EVENING SESSION.
 5.45 p.m.—G.P.O. Clock and Chimes.
 Children's Section.
 6.30 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7 a.m.—G.P.O. Clock and Chimes.
 Australian Mercantile, Land and Finance Co's Report.
 Weather Report and Forecast, by courtesy of Government Meteorologists.
 Producers' Distributing Society's Fruit and Vegetable Market Report.
 Stock Exchange Reports.
 Grain and Fodder Report ("Sun").
 Dairy Produce Market Report ("Sun").
 7.15 p.m.—Country News from the "Sun".
 7.25 p.m.—Talk on "How to Maintain Your Health," by Dr. Du Maurier.
 7.40 p.m.—Talk on "The Motor Car," by Mr. Martin.

EVENING SESSION.

- 8 p.m.—G.P.O. Clock and Chimes.
 Broadcasters' Topics in Chorus.
 8.5 Hour's Programme, presented by Lindeman's Wines.
 8.8 p.m.—Sid and Molly Owen and Jack Nelthorpe in a Medley of Jazz.
 8.28 p.m.—Miss Edna Lister (soprano).
 8.30 p.m.—Selections by the Newtown Band.
 8.50 p.m.—A Humorous Sketch, by May Nancarrow.
 8.58 p.m.—Messrs. Henri and Maurice De Lissac (violin duet).
 8.8 a.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Mares, Government Meteorologist.
 8.8 p.m.—Al Jack's Crackerjacks, broadcast from the Ballroom of the Bondi Casino.
 8.15 p.m.—A Dramatic Sketch, presented by Nellie Ferguson and Wilton Power.
 9.28 p.m.—The Newtown Band.
 9.48 p.m.—Miss Edna Lister.
 9.55 p.m.—Resume of following day's programme.
 10 p.m.—G.P.O. Clock and Chimes.
 10.1 p.m.—Al Jack's Crackerjacks, broadcast from the Ballroom of the Bondi Casino.
 10.11 p.m.—Miss May Nancarrow (soprano).
 10.29 p.m.—Al Jack's Crackerjacks, broadcast from the Ballroom of the Bondi Casino.
 10.33 p.m.—Messrs. Henri and Maurice De Lissac.
 10.39 p.m.—Al Jack's Crackerjacks, broadcast from the Ballroom of the Bondi Casino.
 10.48 p.m.—"Sun" News Service.
 10.50 p.m.—Al Jack's Crackerjacks, broadcast from the Ballroom of the Bondi Casino.
 11 p.m.—G.P.O. Clock and Chimes.
 National Anthem.

2GB, SYDNEY

Monday.

MORNING SESSION.

- 9 a.m.—Music.
 9.5 a.m.—Cheerio Talk.
 9.15 a.m.—Music.
 9.25 a.m.—Psychological Class.
 9.30 a.m.—Music.
 9.45 a.m.—Health and Diet.
 10 a.m.—Close down.

AFTERNOON SESSION.

- 2.30 p.m.—Music.
 2.37 p.m.—Address, Prof. E. Wood.
 2.52 p.m.—Music.
 4 p.m.—Address, Miss M. Clarke.
 4.22 p.m.—Music.
 4.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Music.
 7.5 p.m.—Address, E. Warner.
 7.15 p.m.—Music.
 7.28 p.m.—Address, J. K. Powell, Esq.
 7.35 p.m.—Selections from Dickens by Mr. Keith Burdick.
 7.50 p.m.—Music.
 7.55 p.m.—Songs by Kathleen Ryan.

NIGHT SESSION.

- 8.5 p.m.—Address, Prof. E. Wood.
 8.20 p.m.—Songs by Harold Cobb.
 8.25 p.m.—Instrumental Quartet, Dan Scully, Monica Horder, Murielle Lang, Ada Brook.
 8.50 p.m.—Piano solos, Ada Brook.
 1 "Spring Song" (Mendelssohn).
 2 "Rondo Capriccioso" (Mendelssohn).

- 9 p.m.—Address by Rev. R. B. S. Hammond, "Mending Broken Men."
 9.15 p.m.—Songs by Harold Cobb.
 9.25 p.m.—Instrumental Quartet, Dan Scully, Murielle Lang, Monica Horder, Ada Brook.
 9.35 p.m.—Songs by Miss Kathleen Ryan.

2 UW, SYDNEY

Monday.

- 9 a.m.—News, shipping, mails, studio items.
 9.45 a.m.—Women's Session.
 8.59 a.m.—Resume of forward programme.
 10 a.m.—Close down.
 2 p.m.—Studio Items.
 3.58 p.m.—Resume of forward items.
 3 p.m.—Close down.
 5 p.m.—Dance and Instrumental Items from Studio.
 8.50 p.m.—Resume of forward programme.
 8 p.m.—Close down.
 7 p.m.—Where to Go.
 7.10 p.m.—Soprano selections.
 7.15 p.m.—Organ solo, Professor C. Sauer.
 Selected.
 7.21 p.m.—James W. Downings.
 "Town Planning."
 7.31 p.m.—Miss Jean Edwards, soprano.
 Selected.
 7.35 p.m.—Miss Esther McAlpin, contralto.
 Selected.
 7.40 p.m.—Mr. Mahoney, baritone solo.
 7.46 p.m.—Madame Lillian May, soprano.
 Selected.
 7.51 p.m.—Professor C. Sauer, violin solo.
 Selected.
 7.56 p.m.—George Livermore, baritone.
 Selected.
 8.1 p.m.—Professor C. Sauer: Organ solo.
 8.7 p.m.—Miss Amy Wilson, mezzo soprano.
 Selected.
 8.12 p.m.—Miss Esther McAlpin, contralto.
 Selected.
 8.17 p.m.—Madame Hickie-Bauer, soprano.
 Selected.
 8.22 p.m.—George Livermore, baritone.
 Selected.
 8.27 p.m.—Madame Lillian May, soprano.
 Selected.
 8.32 p.m.—Madame Arline Sauer: Pianoforte solo, Selected.
 8.37 p.m.—Madame Hickie-Bauer, soprano.
 Selected.
 8.42 p.m.—Miss Amy Wilson, mezzo soprano.
 Selected.
 8.47 p.m.—Professor C. Sauer, organ solo.
 Selected.
 8.53 p.m.—Jean Edwards, soprano.
 Selected.
 8.58 p.m.—Professor C. Sauer, violin solo.
 Selected.
 9.5 p.m.—Studio selections.
 9.28 p.m.—Resume of forward programme.
 9.30 p.m.—Close down.

3LO, MELBOURNE.

Monday

MIDDAY SESSION.

- 11 a.m.—Sculling Test to determine Australia's representative for the 1938 Olympia Games, described by Mr. W. H. Sweeting.
 11.15 a.m.—Close down.
 12 noon.—Melbourne Observatory Time Signal.
 British Official Wireless News from Rugby, Reuter's and the Australian Press Association Cables. "Aurora" News Service.
 12.20 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
 "No Wonder I'm Happy" (Aunt).
 "When I Look at You" (Jones).
 "Just the Same" (Donaldson).
 12.50 p.m.—MARIE LAWTON, soprano.
 "Fairy Medley," with Harp.
 "So Blue."
 12.57 p.m.—Stock Exchange Information.
 1.30 p.m.—JOE ARONSON AND HIS SYNCOPHONISTS:
 "I Won't Kiss You Good-night" (Teacher).
 "Go Wash an Elephant if you wanna do



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Something Big" (Turker).
 "Are You Learning in To-night, Mother Dear?" (Williams).

12.50 p.m.—We have much pleasure in introducing to you:

FRED WALKER, baritone:
 "I Did not Know" (H. Frotiere).
 "Toots" (F. Ailshire).

1 p.m.—Melbourne Observatory Time Signal.
 How time flies. Did you write to the old folks at home this week-end? Don't put it off. Do it now.

1.15 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "The Birth of the Blues" (Henderson).
 "The Wind blew through His Whiskers just the Same" (Conroy).
 "Sweetie of Mine" (O'Hagan).

1.15 p.m.—Meteorological Information, Weather Forecast for Victoria, Tasmania, South Australia and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, Tasmania, South Australia and New South Wales.

1.15 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "Oh What a Fat was Whoozis" (Kahn).
 "Lo Down" (Rose).
 "Cherish Beulah Bee from Sunny Italy" (Lewis).

1.25 p.m.—GLADYS LAMPE, contralto:
 "Thoughtful Wings" (Lita Lehmann).
 "A Love Note" (Rogers).

1.32 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "Nips" (Denms).
 "Take in the Sun" (Woods).
 "Whipped Cream" pismo solo (Largo).

1.42 p.m.—MARIE LAWTON, the girl with the voice and harp:
 "Oh, that we two were Maying" (Gounod).
 "Take Up" (Chorus).

1.50 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "Wottle You have with Me?"
 "My Tumble-down Cottage of Dreams" (Leale).
 "Who" (Kern).

2 p.m.—Close down.

AFTERNOON SESSION.

2 p.m.—STUDIO QUARTET:
 "Bondo Capriccioso" (Mendelssohn).
 2.10 p.m.—MRS. DOROTHY SILK:
 "Homocretia".

3.25 p.m.—TASMA TIERNAN, alto:
 "Allegro Appassionata" (Saint-Saens).
 3.32 p.m.—We have much pleasure in now introducing to you:

RUSSO AND BRADFORD.

Operatic Vocalists:
 Opening Chorus from "Ernani" (Verdi).
 Solo by Signor Russo, "Di Provenza," from "La Traviata" (Verdi).
 Lynda Bradford: Selected.

Duet, "Baccaralle," from "Tales of Hoffman" (Offenbach).

3.45 p.m.—STUDIO QUARTET:
 "Festival March".

3.52 p.m.—DOROTHY ROXBURGH, viola:
 "Claire de Lune" (Meadowell).

3.57 p.m.—GLADYS LAMPE, contralto:
 "Oh Thank Me Not" (Mallinson).
 "Goblin Gold" (Bantock).

4.4 p.m.—STATION TRIO:
 "Del Orinete" (Lehote).

4.14 p.m.—GLADYS LAMPE, contralto:
 "Drink to Me Only" arr. by Quilter.
 "I Have Twelve Oxen" (John Ireland).

4.21 p.m.—STUDIO QUARTET:
 "Intermezzo from 'Midsummer Night's Dream'".

4.30 p.m.—MISS FLOBA PELL, Inspector of Schools:
 "Domestic Seimeco".

4.45 p.m.—"Herald" news service.
 Stock Exchange information.

5 p.m.—Close down.

EVENING SESSION.

5.30 p.m.—Acceptance for Wednesday's races at Kynston.

5.35 p.m.—Answer to letters and birthday greetings by "LITTLE MISS KOOKA-BURRA".

6.5 p.m.—STUDIO QUARTET:
 "Halloween Episode" (Laker).

6.10 p.m.—MISS G. FLOS GREIG, B.A., LL.B.
 "A Day in Mandalay".

6.25 p.m.—PAT McLEAN will amuse the children for a few minutes.

6.32 p.m.—STUDIO QUARTET:
 "Dreams of Love" (Laker).
 6.40 p.m.—Official report of Newmarket stock sales by the Associated Stock and Station Agents, Bourke street, Melbourne. Number of sheep still made drawn for week ending.

6.47 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

6.52 p.m.—Stock Exchange information.
 6.57 p.m.—River reports.

6.59 p.m.—Fish Market reports by J. R. Borrett, Ltd. Rabbit prices.

7.2 p.m.—Market reports—by the Victorian Producers' Co-operative Co., Ltd. Poultry, grain, hay, straw, jute, dairy produce, potatoes and onions. Market reports of fruit by the Victorian Fruit-growers' Association. Retail prices. Fruit Market reports. Wholesale prices.

NIGHT SESSION.

During the evening the speeches in connection with the Reception to the Hon. H. L. G. Casey, Secretary of State for the Dominion, by the Horsham Borough Council, will be broadcast from Herham.

7.15 p.m.—MR. T. A. STEWART, president of the National Rose Society of Victoria, will speak on:

"Roses."
 7.30 p.m.—MR. E. C. H. TAYLOR:
 "School Life and School Sports."

7.45 p.m.—Under the auspices of the Department of Agriculture, MR. A. C. RUGG, Poultry Expert:
 "Feeding for Eggs Production."

8 p.m.—THE HEALTH ASSOCIATION'S MESSAGES for to-day is:
 "Without health there is neither happiness, efficiency, beauty, nor length of days."

8.1 p.m.—Mr. H. J. Fay, international sprinter:
 "Sprinting: Analyses and Preparation."

8.16 p.m.—BRUNSWICK CITY BAND:
 Overture, "Gabriciana."

8.24 p.m.—RUSSO AND BRADFORD, operatic vocalists:
 Duet, "Blue Danube" (Strauss).
 Lynda Bradford, "Fat Lili fellow" (Sberidan) (Gordon).

Signor Russo, "Solita," Spanish Serenade (Buzzi Peccia).
 Duet, "Cielu Vivra," from "Il Trovatore" (Verdi).

8.34 p.m.—Transmission from Brunswick Technical School:
 "Wireless Description of the Activities of the School," by the President of the School Council, Mr. Robert S. Don, Mr. Percy Kverret, Mr. Will Hubbard, Mr. G. S. Simpson, Miss L. Nau, Mr. E. O. Edwards, Mr. N. C. Carmichael, Mr. J. Swartz, Mr. R. F. Lebig, Mr. A. Riley, and Mr. J. F. Samuel, who will all describe the various departments under their charge.

8.54 p.m.—BRUNSWICK CITY BAND:
 Selected.

9.4 p.m.—League of the Deaf of the Develop Australia League, DR. SPRINGTHORPE will speak on:
 "England and Australia."

9.15 p.m.—We have much pleasure in introducing to you:

WAIDE MORGAN, tenor (by permission of J. C. Williamson, Ltd.):
 "Sea Rapture."
 "Blue Skies."

9.22 p.m.—BRUNSWICK CITY BAND.
 Trombone solo:
 "The Joy Wheel."
 Soloist, Jack Kane.

9.27 p.m.—MARIE LAWTON, the girl with the voice and the harp:
 "O, Hall of Song" (Wagner).
 "Dancing Lesson" (Oliver).

9.34 p.m.—BRUNSWICK CITY BAND:
 Selection, "Memories of Britain."

9.44 p.m.—"Argus" news service, Meteorological Information, British Official Wireless News.

9.55 p.m.—PAT McLEAN, soubrette:
 Selections from her repertoire.

10.2 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "You Know I Love You" (Morse).
 "I've Got Somebody Now" (William).
 "Hello, Goodbird" (Friend).

10.32 p.m.—WAIDE MORGAN, tenor:
 Selections from his repertoire.

10.45 p.m.—BRUNSWICK CITY BAND:
 Selection, "A Runaway Girl" (Monckton).

10.52 p.m.—PAT McLEAN:
 Impromptu solo.

10.58 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "Brown Eyes in Your Dreams" (Tennent).
 "One Night of Love in Spain" (Hayes).
 "Barbara" (Silver).

11 p.m.—OUIR GREAT THOUGHT:
 "We understand what we should all wish for—but there are so many ugly things we never see"—Ruskin.

11.2 p.m.—JOE ARONSON AND HIS SYMPO-SYMPHONISTS:
 "Because I Love You" (Berlia).
 "For my Sweethearts" (Brown).
 "She Don't Wanna" (Yellow).
 "Chinche Moon" (Nausbaum).
 "Feeding" (Jones).

"Fading" (Jones).
 "You'll Go Home to-night" (Gilbert).
 "That Certain Feeling" (Gardwin).
 "Looking for a Boy" (Gershwin).
 "I'm on my way Home" (Berlia).
 "By the Old Red Mill" (David).
 "Who Loves the Love Bird Leaves the Nest" (Wade).
 "Muddy Water" (De Rose).
 "Upright and Grand" piano solo (Bloom).
 "I Didn't Know" (Swift).
 "Exciting is Made for Love" (Johnson).
 "The Prisoner's Bride" (Methiou).
 "What does it Matter" (Berlia).
 "This is June" (Leonard).

11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Monday.

MIDDAY SESSION.

1 p.m.—Market reports, weather information supplied by the Commonwealth Weather Bureau; news services supplied by "The Daily Mail" and "The Daily Standard."

FROM LLOYD CARLTON—
 1.20 a.m.—Lunch music played by Hotel Carlton Symphony Orchestra.

FROM THE OBSERVATORY—
 1.58 p.m.—Standard time signal.
 2 p.m.—Close down.

AFTERNOON SESSION.

FROM HOTEL CARLTON—

2.20 p.m.—Afternoon tea music played by Hotel Carlton Symphony Orchestra.

FROM THE STUDIO—
 4.15 p.m.—News service supplied by "The Telegraph"—Close down.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—News service supplied by "The Daily Standard."
 6.15 p.m.—World Call Talk; "Japan" by Rev. J. H. Storer.

6.20 p.m.—The children's session—stories by "The Sandman."

7 p.m.—Market reports; stock reports.
 7.30 p.m.—Weather news; "Daily Standard" news.

7.45 p.m.—Standard time signals.
 7.45 p.m.—"The Children's Music Corner, conducted by "The Music Man."

NIGHT SESSION.

IPSWICH VICE-REGAL BAND PARTY.
 8 p.m.—FROM THE STUDIO:
 Hrusa Quartette:
 "The Reapers' Chorus" (Romna).
 "The Ipswich Vice-Regal Band Party."
 (Messrs. J. W. Burgemeister, N. Harold, D. Jordan and A. Clark).

Contralto Solo:
 "See Love I Bring Thee Flowers" (Lambert).
 Miss Irene Elphinstone.

Cornet Duet:
 "Watman, What of the Night" (Seymour).
 Messrs. Burgemeister and N. Harold.



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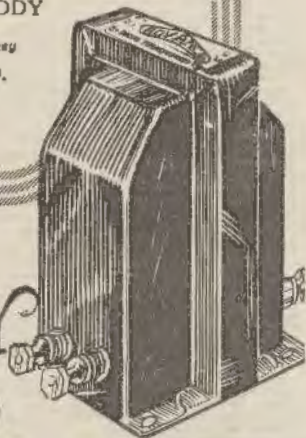


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17/6

7ZL, HOBART

Tenor Solo:
"Even Song" (Bunenthal),
Mr. C. T. Rickbeck.
Ten Minutes with Harry Lawson.
Mr. Claude Walker.
Hawaiian Instrumentalists:
"Hawaii Lullaby,"
The Waikiki Orchestra.
Soprano Solo:
"Chant Ventilen" (Bemberg),
Miss Jill Manners.
Tenor Horn Solo:
"Zanobia" (Round),
Mr. D. Jordan.
Monologue:
"Tribute in the Amen Corner,"
Miss Nell Douglas Graham.
Brass Quartette:
"The White Heather" (Orde Hume),
"The Ipswich Vice-Regal Band Party."
A Thought for To-night (Will H. Lister):
"The Way of a Child."
Soprano Solo:
"Symphs and Fawns" (Bemberg),
Miss Jill Manners.
Hawaiian Instrumentalists:
"Chenka Chuka."
"The Waikiki Orchestra."
Euphonium Solo:
"Air Vairie" (William),
Mr. A. Clark.
Tenor Solo: "When Other Lips" (Balfie),
Mr. C. T. Rickbeck.
Brass Quartette:
"Return of Spring" (Round),
The Ipswich Vice-Regal Party.
Contralto Solo:
"Tired Hands" (Sanderson),
Miss Irene Elphinstone.
Hawaiian Instrumentalists:
"Coral Sunset of My Hawaiian."
The Waikiki Orchestra.
Contralto Solo: "To-night" (Zardo),
Miss Dorothy Brown.
9 p.m.—Metropolitan Weather Forecast.
PART II.
8.5 p.m.—A recital by Miss Lena Hammond
and Miss Gladys Frost.
10 p.m.—"The Daily Mail" news; weather
news. Close down.

6WF, PERTH.

Monday.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and Cables.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather Notes, supplied by the
Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Quintette.
2 p.m.—Close down.
2.30 p.m.—Tune in.
2.35 p.m.—Afternoon Tea Concert, relayed
from the Carlton Cafe, Hay Street.
**Vocal and Instrumental Interludes from the
Studio.**
4.30 p.m.—Close down.
6.45 p.m.—Tune in.
6.50 p.m.—Stories for the Kiddies, by Uncle
Henry and Duffy.
7.20 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk by Lieut.-Col. Le Soeuf, Director
of the Zoological Gardens, South Perth.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the
Meteorological Bureau of Western Australia.

MUSIC AND SONG.

8.3 p.m.—Musical programme, including Vocal
and Instrumental articles.
Items by Messrs. Campbell and Wise.
Miss Esilo Liddell, soprano.
Miss Evelyn Willis, A.R.C.M., pianist.
Orchestral selections, by the Grand Sym-
phony Orchestra, conducted by Mr. Val
Smith, relayed from the Grand Theatre,
Murray Street.
10 p.m.—Late news items, by courtesy of "The
Daily News" Newspaper Coy.
Ship within fringe announcement.
Weather Report and Forecast.
10.30 p.m.—Close down.

100 METRE TRANSMISSION.

Simultaneous Broadcast on 100 Metres of
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Monday.

MORNING SESSION.

11 a.m. to 12 noon.
AFTERNOON SESSION.
2 p.m.—G.P.O. Clock and chimes.
3.1 p.m.—Tune in selection.
3.5 p.m.—Hobart Stock Exchange quotations.
Weather information, items of interest—
announcements.
8.15 p.m.—Orchestral selections by 7ZL Studio
Trio.
4.15 p.m.—Fashion Talk by "Aunt Edna," of
Brownalls Ltd. Hobart.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

6.30 p.m.—Children's Corner with "Uncle
Hector."
7 p.m.—"Uncle Peters" half hour.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.55 p.m.—Physical culture talk by Lieutenant
Richard Makisock.
7.55 p.m.—"Mercury" special Tasmanian news
service. Railway auction produce sales.
Weather information. Hobart Stock Ex-
change quotations.
8 p.m.—G.P.O. Clock and chimes.
8.1 p.m.—Studio concert.
Mr. M. A. Jacobson (cornet), Mr. Joseph
Blight (saw soloist). Dance numbers by
Lyceum Dance Trio, Hobart.
8 p.m.—Weekly talk on Tasmanian Beauty
Spots.
"Cradle Mountain," by Mr. E. T. Emmett.
9.40 p.m.—British official wireless news.
9.50 p.m.—"Mercury" special interstate news
service. Tasmanian District weather re-
ports. 9 p.m. Weather forecasts. Station
announcements.
National Anthem.

Tuesday, Oct. 25

2FC, SYDNEY.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

10 a.m.—"Big Ben" and programme announce-
ments.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news
service.
10.30 a.m.—Studio music.
10.35 p.m.—Late sporting news by the 2FC
racing commission.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben." Marching music for
school children.
11.15 a.m.—A.P.A. and Reuter's cables.
11.35 a.m.—Studio music.
11.5 a.m.—A talk on home cooking and re-
cipes by Miss Ruth Farrar.
11.30 a.m.—Close down.

MIDDAY SESSION.

12 noon—"Big Ben" and programme announce-
ments.
12.25 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast. Rain-
fall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Ereby Morning
Herald" news service. Rugby wireless news.
12.25 p.m.—Studio music.
12.30 p.m.—Marching music for school chil-
dren.
12.40 p.m.—Daniel Hardy, baritone:
"At Downing" (Oulman).
1.25 p.m.—THE OAK HALL INSTRUMEN-
TAL TRIO.
1.35 p.m.—Studio music.
1.55 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news ser-
vice.

Producers: "Distributing Society per" "Lo
Producers" Distributing Society's report.
1.30 p.m.—THE OAK HALL INSTRUMEN-
TAL TRIO.
1.35 p.m.—Stock Exchange, second call.
1.40 p.m.—Marching music for school chil-
dren.
1.40 p.m.—Daniel Hardy, baritone.
1.45 p.m.—Studio music.
1.50 p.m.—THE OAK HALL INSTRUMEN-
TAL TRIO.
2 p.m.—"Big Ben."
Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.5 p.m.—Kitty Poole, soprano:
"Mother, I'm coming home to you" (Rale).
3.5 p.m.—The Lyceum Theatre Orchestra.
3.15 p.m.—A talk—"Saffery and the Child."
3.20 p.m.—Mary Maunell, mezzo:
"At the mid hour of night" (Moore).
3.30 p.m.—Marching music for school chil-
dren.
3.40 p.m.—Annie Mills, soprano (from Far-
mer's Tea Rooms).
3.45 p.m.—THE OAK HALL INSTRUMEN-
TAL TRIO.
3.55 p.m.—Doris Crossman, contralto:
"Break, break, break" (Darcy).
4 p.m.—"Big Ben." Eileen Moran, soprano:
"Maunshie" (MacMurray).
4.5 p.m.—THE OAK HALL INSTRUMEN-
TAL TRIO.
4.15 p.m.—Kitty Poole, soprano:
"My Irish American Rose" (Brown).
4.20 p.m.—Annie Mills, soprano.
4.25 p.m.—THE OAK HALL INSTRUMEN-
TAL TRIO.
4.35 p.m.—Mary Maunell, mezzo:
"Songs I sing to you" (Williby).
4.40 p.m.—Eileen Moran, soprano:
"Sometimes when night is nigh" (Phillips).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Doris Crossman, contralto:
"The Lost Chord" (Sullivan).
4.50 p.m.—The Lyceum Theatre Orchestra.
5 p.m.—"Big Ben."
Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.
5.45 p.m.—The "Hello Mar" talks to the chil-
dren.
6.30 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
6.50 p.m.—Late sporting news.
7 p.m.—Dalgely's market reports (wool,
wheat, stock).
7.15 p.m.—Fruit and vegetable markets.
7.15 p.m.—Weather and shipping news.
7.15 p.m.—Late "Evening News" news ser-
vice.

NIGHT SESSION.

7.30 p.m.—Programme announcements.
7.35 p.m.—David Craven, bass baritone:
"The Rapture" (Coates).
"Sometimes when night is nigh" (Phillips).
7.42 p.m.—Win and Windie, English entertain-
ers.
7.50 p.m.—Jessie Smith, contralto, from
SL4:
"Star of the East" (Lohr).
"Trees" (Raabback).
8 p.m.—"Big Ben." From the Darlington
Town Hall, the Metropolitan Band:
March, "The Dandy Fifth" (Safroni).
Selection, "The Mikado" (Sullivan).
8.15 p.m.—From the Studio, Jack Lussadaine:
Songs at the piano.
8.25 p.m.—From the Darlington Town Hall,
The Metropolitan Band:
Two-step, "The Great Desire" (Schumacher).
Selection, "Lacrosia Borzila" (Donisetti).
8.40 p.m.—From the Studio, David Craven,
bass baritone:
"The Sun God" (James).
8.45 p.m.—From the Darlington Town Hall,
The Metropolitan Band:
Waltz, "Les Etoiles d'Australie" (Laski).
March, "The Contemplative" (Alford).
8.57 p.m.—From the Studio, Jessie Smith,
contralto, from SL4:
"Dedication" (Franz).
"None but the weary heart" (Tschikowsky)



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9.3 p.m.—Late weather forecast.
 9.5 p.m.—Jack Lunadaine:
 Songs at the piano.

10.12 p.m.—Win and Wipde, English entertainers.

9.15 p.m.—From the King's Hall, Sydney:
 Items from the annual concert of the Home for Incurables.

A programme supplied by the following 2FC artists:

Charles Stephens, tenor.
 Lawrence Maczulay, baritone.
 Daisy Richards, violinist.
 Mabel Batchelor, soprano.
 Harry Thomas, entertainer.

Peggy Dunbar, contralto.

10.20 p.m.—From the Studio: Dance music supplied by the 2FC Orchestra.

Late weather forecast.

10.30 p.m.—David Craven, bass baritone:
 "Evening" (O'Connor).

"Sacrament" (Melhermid) (by request).

10.37 p.m.—The 2FC Dance Band.

11.30 p.m.—National Anthem.
 Close down.

Note.—The items to be given in connection with the concert from the King's Hall, between 9.15 p.m. and 10.25 p.m., are as follows:—

Mabel Batchelor, soprano:
 "The Willow Tree."

Lawrence Maczulay, baritone:
 "Sea Fever."

"Invitation."

Peggy Dunbar, contralto:
 "The Blind Ploughman."

Daisy Richards, violinist:
 "Amenity."

Charles Stephens, tenor:
 "For you alone."

"Araghlah."

2BL, SYDNEY.

Tuesday.

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

10.30 a.m.—G.P.O. Clock and Chimes.

Musical programme from the Studio.

10.40 a.m.—News from the "Daily Telegraph Pictorial."

10.50 a.m.—Musical programme from the Studio.

11 a.m.—G.P.O. Clock and Chimes.

Announcements.

11.15 a.m.—Social Notes: Replies to correspondents, by Mrs. Jordan.

Talk on "Diet and Health," by Mr. Adams, A.M.A.

12 noon.—G.P.O. Clock and Chimes.

Special Ocean Forecast and Weather Report.

12.15 p.m.—Brunswick Panatop Musical Recital.

12.15 p.m.—Information: Mails, Shipping and Post Directory.

12.18 p.m.—Hosts in call by wireless.

12.20 p.m.—Fruit Market Report.

12.22 p.m.—Vegetable Market Report.

12.24 p.m.—London Metal Market Report.

12.26 p.m.—Dairy and Farm Produce Market Report.

12.30 p.m.—G.P.O. Clock and Chimes.

Foreign Market Report.

12.32 p.m.—Wheat Market Report.

12.34 p.m.—Rabbit Market Report.

12.36 p.m.—Stock Exchange Report.

12.38 p.m.—News from the "Sun."

12.43 p.m.—Hilber's Instrumental Quartet:
 Direction, Carey Carding.

1.27 p.m.—Stock Exchange Report.

1.30 p.m.—G.P.O. Clock and Chimes.

Talk to Children and Special Entertainment for Children in Hospital.

2 p.m.—G.P.O. Clock and Chimes.
 Close down.

AFTERNOON SESSION.

Racing Information broadcast immediately after each race, by courtesy of the "Sun."

2 p.m.—G.P.O. Clock and Chimes.

News from the "Sun."

3.15 p.m.—Civil Service Stores Trist:
 Direction, Miss de Courcy Bremer.

3.30 p.m.—G.P.O. Clock and Chimes.

News from the "Sun."

3.40 p.m.—Musical programme from the Studio.

3.50 p.m.—News from the "Sun."

4 p.m.—G.P.O. Clock and Chimes.

Civil Service Stores' Telp.

4.15 p.m.—Serial Story.

4.25 p.m.—Musical programme from the Studio.

4.35 p.m.—News from the "Sun."

4.45 p.m.—Resume of night's programme.

4.57 p.m.—Racing returns.

4.58 p.m.—Special Ocean Forecast.

5 p.m.—G.P.O. Clock and Chimes.
 Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and Chimes.
 Children's Session.

5.50 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

7 p.m.—G.P.O. Clock and Chimes.

Announcements: Mercantile, Land and Finance Co.'s Report.

Weather Report and Forecast, by courtesy of Government Meteorologist.

Producers' Distributing Society's Fruit and Vegetable Market Report.

Stock Exchange Report.

Grain and Fodder Report ("Sun").

Dairy Produce Report ("Sun").

N.R.M.A. Talk.

7.15 p.m.—Country News from the "Sun."

EVENING SESSION.

8 p.m.—G.P.O. Clock and Chimes.

Broadcasters' Topical Chorus.

8.3 p.m.—Broadcasters' Light Orchestra, under the direction of Mr. J. Knight Barnett.

8.31 p.m.—Mr. Stanley E. Catlett (tenor).

8.33 p.m.—Miss Dulcie Blair (violin solo).

8.35 p.m.—Mrs. Leonore Gotsch (contralto soprano).

8.37 p.m.—Mr. Heagen Holenbergh (pianist).

8.42 p.m.—Mr. Clement Williams (baritone).

8.49 p.m.—Miss Ethel Friend (contralto).

8.55 p.m.—Resume of following day's programme.

9 p.m.—G.P.O. Clock and Chimes.

9.1 p.m.—Weather Report and Forecast, by courtesy of Mr. C. J. Maros, Government Meteorologist.

9.2 p.m.—Broadcasters' Light Orchestra.

9.12 p.m.—Mr. Stanley E. Catlett.

9.19 p.m.—Miss Dulcie Blair.

9.23 p.m.—Miss Leonore Gotsch.

9.28 p.m.—Mr. Heagen Holenbergh.

9.25 p.m.—Mr. Clement Williams.

9.50 p.m.—Broadcasters' Light Orchestra.

10 p.m.—G.P.O. Clock and Chimes.

10.1 p.m.—Miss Ethel Friend.

10.8 p.m.—The Ambassadors Dance Band, broadcast from the Ballroom of the Ambassadors. During intervals between dances "Sun" news will be broadcast.

12 midnight.—G.P.O. Clock and Chimes.

National Anthem.

2 UW, SYDNEY

Tuesday.

9 a.m.—News, shipping, mails, studio items.

9.45 a.m.—Women's Session.

9.50 a.m.—Resume of forward programme.

10 a.m.—Close down.

2 p.m.—Studio items.

2.50 p.m.—Resume of forward items.

3 p.m.—Close down.

5 p.m.—Dance and instrumental items from Studio.

6.59 p.m.—Resume of forward programme.

6 p.m.—Close down.

7 p.m.—Where to Go.

7.10 p.m.—Special programme by Professor C. Sauer and Madame Arline Sauer.

7.30 p.m.—Mr. Greenwood: Motor Talk.

7.45 p.m.—Further programme, by Professor C. Sauer and Madame Sauer.

8 p.m.—Gena of Opera No. 11:
 "Ginevra" (Fonchielli), by George F. Manuel.

9 p.m.—Studio items.

9.25 p.m.—Resume of forward programme.

9.35 p.m.—Close down.

3LO, MELBOURNE.

Tuesday.

MIDDAY SESSION.

11 a.m.—Reception to Right Honorable L. G. AMERY, Secretary of State for the Dominions, by the Mayor and Councillors of Ballarat, transmission from Ballarat Town Hall.

12 noon.—Melbourne Observatory time signal.

Metal prices received by the Australian Mines and Metals Association, from the London Stock Exchange this day. British Official Wireless News from Rugby. Reporter's and the Australian Press Association Cables. "Argus" News Service.

12.15 p.m.—COMMUNITY SINGING FROM THE STUDIO, conducted by Mr. G. J. MAC-KAY, assisted by the STUDIO QUARTET. Conductor, REGINALD BRADLEY.

WARDE MORGAN, tenor:
 "E'en as a Lovely Flower."

RUSSELL AND BRADFORD, operatic vocalists.

Lynda Bradford:
 "Mighty lak a rose" (Nevin).

Duet, "Come to the Fair."

1.30 p.m.—Reception to the Right Honorable L. G. AMERY, Secretary of State for the Dominions, by the Mayor and Councillors of Geelong, transmitted from the Town Hall, Geelong.

1.40 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, Tasmania, South Australia and New South Wales.

2 p.m.—Close down.

AFTERNOON SESSION.

3 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"In an Oriental Garden" (Hayes).

"Meet Me in the Moonlight" (Davis).

"So Blue" (De Silva).

3.10 p.m.—"AU FAIT" will give a "Fuchsia Talk."

3.25 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Blue Skies" (Berlin).

"Dawn of To-morrow" (Green).

"Love Lee" (Ash).

3.35 p.m.—GLADYS LAMPE, contralto:
 "Now Sleeps the Crimson Petal" (Quilter).

"The Fuchsia Tree" (Quilter).

3.42 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Aint She Sweet" (Yellen).

"Crazy Words, Crazy Tune" (Yellen).

"There's a Trick in Pickin' a Chick, Chick, Chicken" (Tobias).

3.52 p.m.—FRED WALKER, baritone:
 "To-morrow" (F. Kelly).

"Three" (F. Arizward).

4 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Love is Just a Little Bit of Heaven."

"She's Got It" (Davis).

"Stepping in Society" (Akst).

"Who-not You-oo. That's Who" (Olger).

4.10 p.m.—GLADYS LAMPE, contralto:
 "Vale" (Russell).

"Ships that Pass in the Night" (Stephenson).

4.17 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Zig Zag," piano solo (Bloem).

"Golden Gate" (Leslie).

"Rhythm is the Thing" (Raita).

4.27 p.m.—MATRON MORELAND will speak on "Mothercraft."

4.37 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS, baritone:

"Dawn" (F. Curran).

"Wayfactors' Night Song" (E. Martin).

4.45 p.m.—"Herald" News Service. Stock Exchange information.

EVENING SESSION.

5.30 p.m.—Answers to letters and birthday greetings by "MARY GUMLEAF."

6 p.m.—STUDIO QUARTET:

"The Waters of Minnetonka" (Lieserfer).

Unfailing Power Always

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Punch! Power! Snap! The clear, steady flow of strong, silent radio house power direct from your light socket into your set; hour after hour, as long as you care to use it. And at such little cost. When you install an EMMCO Eliminator, you cut out for all time the constant replacing of expensive dry batteries. Your set is always ready to give you full, clear volume. You just hook it up to your set without making any changes in your wiring.

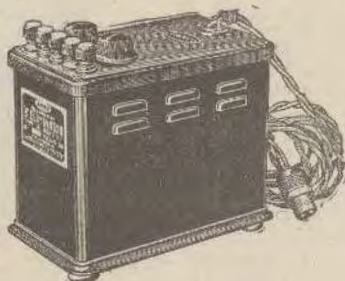


THE EMMCO SUPER POWER "B" ELIMINATOR is constructed particularly for supplying high tension current for multi-valve sets. It delivers 85 milliamperes at 180/200 volts, and is supplied with a Raytheon B.H. tube. It is especially adapted for the current and voltages of Australian Electric A.C. Lighting Mains and rectifies both halves of the A.C. Cycle. Adaptable for all valves. The Emmco Super Power "B" Eliminator has a special output control for varying A.C. voltages from 180/240 volts.

It is a scientifically made job, sturdily built, in a neat metal case, with Bakelite top, the whole measuring 10½ x 9½ x 6½, weight 22-lbs., and complete with cord and attachment plug, attractive aluminium base, bakelite top and well-insulated.

Price, £12/12/-

Kit of Transformer and Chokes, in separate aluminium frame 26/10/-



THE EMMCO "B" BATTERY ELIMINATOR is especially designed for supplying high tension current to sets employing any type or make of valves, up to a maximum of five. Like the Super Power Eliminator, it is especially designed for Australian Electric A.C. Lighting Mains, and rectifies both halves of the A.C. cycle. Several thousand of these Eliminator have been sold and are in successful operation throughout Australia and New Zealand. This Eliminator is supplied for both 230/240 and 200/220 volts.

A scientifically made job, sturdily built, in a neat metal case, with Bakelite top. Compact, 8½-in. x 6-in. x 4½-in., weight 14½-lbs., and complete with cord and attachment plug. Handsomely finished case, Bakelite top, complete with cord and plug.

Price, £10/10/-

Kit, containing Transformer and Chokes, in one aluminium frame £4/10/-

For Sale at All Dealers.

Made by **ELECTRICITY METER MFG. CO., LTD.**

6.10 p.m.—"MARY GUMLEAF" has some Poems and Stories for the Hittler ones.

6.25 p.m.—STUDIO QUARTET: "Enter Fantasia" (Lisle).

6.30 p.m.—"MARY GUMLEAF" will tell the older children a story.

6.40 p.m.—Official report of Newmarket stock sales, by the Associated Stock and Station Agents, Beattie Street, Melbourne. Number of sheep drawn for week's sales.

6.45 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

6.52 p.m.—Stock Exchange Information.

6.57 p.m.—River reports.

6.59 p.m.—Fish market reports by J. R. Borrett, Ltd. Rabbit prices.

7.2 p.m.—Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Straw, Hide, Dairy produce, Potatoes and colons. Market reports of fruit, by the Victorian Fruitgrowers' Association. Retail prices. Fruit Market reports. Wholesale prices. Bullarct stock market reports.

NIGHT SESSION.

7.15 p.m.—MADAME SOWARD will speak to Students of French: "Un Nes Gec," by Dumax, pers.

7.40 p.m.—Under the auspices of the University Extension Board, MRS. J. C. ROSENBLAUM, M.A., will speak on: "A Day in the Life of a Girl of Jane Austen's Time."

7.45 p.m.—MR. E. Y. PASCOE will speak on: "Bovine."

8 p.m.—Under the auspices of the HEALTH ASSOCIATION of AUSTRALIA, the Health Message for to-day is: "Man has tried to fit himself to his living conditions. Good hygiene says that living conditions must be fitted to man."

8.1 p.m.—STUDIO PRESENTATION of the OPELLA, "LA ROHEM," under the direction of MR. STEPHEN GRAY, assisted by the AUBURN METHODIST CHOR, and the STUDIO ORCHESTRA.

CAST.
Rudolfo, JOHN D. SULLIVAN.
Schanard, FRANK DAVIES.
Himi, ELSIE DAVIES.
Marcello, J. ALEXANDER BROWNE.
Colline, THOMAS GEORGE.
Mancini, SISSA NAVARETTI.
Renoli, ALEKSANDR, Sergeant of Customs,
COLLIN NASH.

8.30 p.m.—Announcements. ROYAL AUTOMOBILE CLUB of VICTORIA'S SAFETY MESSAGE for to-day is for
MOTORISTS: "Signal the man behind. When slowing up, when turning corners, when coming to a stop. The man behind is not a mind reader."

8.34 p.m.—STUDIO QUARTET: Waltz, "The Blue Danube" (Strauss). Waltz, "Morning Journals" (Strauss).

STRAUSS CENTINARIY.

Johann Strauss was born in Vienna in 1804. At an early age he played in an orchestra at the "Oper", a favorite place of amusement in Vienna. Later he became conductor, and took the people by storm. With his band of 300 performers he toured through the principal countries in Europe. He raised dance music to a higher level than it had ever reached before, and invented his copious melodies with all the charm of brilliant instrumentation. He must be judged by a totally different standard from that of mere dance music. His best-known waltz is "The Blue Danube."

8.42 p.m.—MARY MACK, contralto: "Love went a-riding" (Old English).

8.51 p.m.—STATION QUARTETTE: Waltz, "Acceleration" (Strauss). Waltz, "Thousand and One Nights" (Strauss).

10 p.m.—"Argus" news service. British Official Wireless. Sporting notes by "Olympus".

10.10 p.m.—WARDE MORGAN, tenor (by permission of J. C. WILLIAMSON, LTD.): "Green Balcony" (Cathie). "E'en as a Lovely Flower" (Cathie).

10.17 p.m.—TASMA TIERNAN, cello:

"Romance" (Schumann).
10.25 p.m.—MARY MACK, contralto: "The Arabian Love Song" (De Clerck). "Tired Hands" (Staudenro).
10.32 p.m.—STUDIO QUARTET: Waltz, "Wine, Women and Song" (Strauss). March, "Egyptian" (Strauss).
10.42 p.m.—RUSSO AND BRADFORD, opera-like vocalists: Duet, "Pascateri" (Mascocchi). Signor Russo, "Theella's Serenade." Lynda Bradford, "L'Ultima Cannon" (Fotelli).
10.55 p.m.—OUR GREAT THOUGHT: "Lamentation is the only musician that always, like a screech-owl, sings and sits on the roof of an angry man."—Plutarch.
10.56 p.m.—JAM. JOHNSON'S MONTE CARLO ORCHESTRA.

4QG, BRISBANE.

Tuesday.

1 p.m.—Market reports: weather information; "The Daily Mail" and "The Daily Standard" news.
FROM HOTEL CARLTON.
1.30 p.m.—Lunch music played by Kotel Carlton Symphony Orchestra.
FROM THE OBSERVATORY—
1.58 p.m.—Standard time signal.
2 p.m.—Close down.

AFTERNOON SESSION.

3.20 p.m.—A programme of music from the Studio.
4.15 p.m.—"The Telegraph" news.
4.30 p.m.—Close down.

EARLY EVENING SESSION.

5 p.m.—"Daily Standard" news; announcements.
6.15 p.m.—Lecturette: Nil.
6.30 p.m.—The children's session—stories by "Uncle Jim".
7 p.m.—Special news service; Market reports; Stock reports.
7.30 p.m.—Weather news; Announcements.
7.35 p.m.—Standard time signals.
7.45 p.m.—Lecturette: A talk on Sheep and Wool by Mr. W. G. Brown (Instructor in Sheep and Wool).

NIGHT SESSION.

MR. ERICH JOHN'S PARTY.
To-night's programme has been arranged by Mr. Erich John and will be provided by his party of radio artists.

PART I.

AN 18th CENTURY MUSICAL.
8 p.m.—Double Quartette: "Choosing the May Queen" (Mozart). Double Quartette. Duet: "Happy is the Lowly Maiden." Tenor Solo: "When One Dear Emotion" (Mozart). Mr. Geo. Williamson. Double Quartette: "Children's Pleasures" (Mozart). Double Quartette. Baritone Solo: "Smiling Bacchus" (Handel). Mr. Ben Cloves. Tenor Duet: "Trust in Friendship" (Haydn). Mr. Geo. Williamson and Mr. Jack Lord. Double Quartette: "Gentle Shepherd" (Pergolesi). Soprano Solo: "Devy Violets" (Scarlatini). Miss Mabel Mainout. Male Quartette: "Desire of Spring" (Mozart). Contralto Solo: "The Spiv's Song" (Haydn). Miss Mildred Bell. Vocal Duet: "Toll Fair Irene" (Handel). Mr. Geo. Williamson (tenor), Mr. Ben Cloves (baritone). Double Quartette: "The Bowsens Are Telling" (Haydn). 9 p.m.—Metropolitan Weather Forecast.

PART II.

AN HOUR OF CARNIVAL MUSIC.
9.1 p.m.—"The Carnival" (Rossini). Double Quartette. Tenor Solo: "Come to the Fair." Mr. Geo. Williamson. Bass Solo: "The Floral Dance" (Katie Moss). Mr. Tom Tom Ryan. Double Quartette: "Hence Away With Care" (Meyerbeer). Vocal Duet: "A Night in Venice." Miss Mabel Mainout (soprano), Mr. Geo. Williamson (tenor). Tenor Solo: "The Carnival" (Molloy). Mr. Jack Lord. Double Quartette: "Round the Maypole Blithely Tripping" (Donizetti). Contralto Solos: (a) "Harlequin" (Collins). (b) "Columbine" (Collins). Miss Audrey Bell. Vocal Duet: "Venetian Regatta." Mr. Jack Lord and Mr. Walter Land (tenor). Soprano Solo: Here's to Love and Laughter." Miss Maye Hughes. Bass Solo: "In Cellar Cool." Mr. Tom Ryan. Double Quartette: "Fandoul-Fandoul." FROM THE STUDIO.
10 p.m.—"The Daily Mail" news; weather news. Close down.

6WF, PERTH.

Tuesday.

12.30 p.m.—Tune in.
12.35 p.m.—Markets, News, and Cashes.
1 p.m.—Time signal from Perth Observatory.
1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
1.2 p.m.—Studio Instrumental Trio: "Four Indian Love Lyrics" (Finden). "Lulus Flowers" (Ohlson).
1.30 p.m.—Close down.
2.30 p.m.—Tune in.
8.35 p.m.—Organ music, relayed from the Grand Theatre, Murray Street. Vocal and instrumental interludes from the Studio.
4.30 p.m.—Close down.
6.45 p.m.—Tune in.
6.50 p.m.—Stories for the Kiddies, by Uncle Dully.
7.30 p.m.—Stocks, Markets, News.
7.45 p.m.—Talk: "Wireless Troubles," by Dr. Fixem.
8 p.m.—Time signal from Perth Observatory.
8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia. ORCHESTRA NIGHT.
8.3 p.m.—Concert by SWA's Station Orchestra, conducted by Mr. Ronald E. Neyle, A.T.C.L. Vocal assisting artist.
10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy. Ships within range announcement. Weather Report and Forecast.
10.30 p.m.—Close down.
10.35 p.m.—100 METRE TRANSMISSION. Simultaneous broadcast on 100 metres of Musical programme given on 1250 Metres, commencing at 8 p.m.

7ZL, HOBART

Tuesday.

MORNING SESSION, 11 to 13 noon.
AFTERNOON SESSION,
3 p.m.—I.P.O. Clock and chimes.
5.1 p.m.—Tune in selection.
5.7 p.m.—Hobart Stock Exchange quotations. Weather information. Items of Interest—announcements.
E
5.13 p.m.—Orchestral selections by 7ZL Studio Trio.
4.15 p.m.—Cooking Talk by "Regulo."
4.30 p.m.—EVENING SESSION.
EARLY EVENING SESSION.

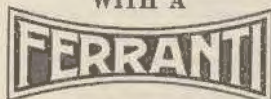
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WEDMA, LTD., Adelaide . . . EDGAR V. HUDSON, Brisbane . . . GIBBS BRIGHT & CO., Perth.

6.30 p.m.—"Uncle Hector" talks to the children.
7 p.m.—"Uncle Peter" half hour.

NIGHT SESSION.

7.30 p.m.—Musical selection.
7.45 p.m.—Literary Notices and Library Lists by Mr. W. H. Fuller.
7.50 p.m.—"Mercury" special Tasmanian news service. Railway auction produce sales. Weather forecasts. Hobart Stock Exchange quotations.
8 p.m.—G.P.O. Clock and chimes.
8.15 p.m.—By direct wire from Imperial Hotel, Hobart. Dance numbers by Mrs. Sheppard's Trio, interspersed with items from the following: Miss Olive Tedman (soprano), Mr. Cresca (mandolin), Mr. Fred Herald (baritone).
9 p.m.—Radio question Corner by "Anode."
9.40 p.m.—British official wireless news.
9.50 p.m.—"Mercury" special Tasmanian news service. Ships within wireless range. Weather reports. 9 p.m., weather forecast. Station announcements.
National Anthem.

Wednes., Oct. 26

2FC, SYDNEY

EARLY MORNING SESSION.

7.0 a.m. to 8.0 a.m.

MORNING SESSION.

7.0 a.m.—"Big Ben" and Programme Announcements.
7.05 a.m.—Studio Music.
7.15 a.m.—"Sydney Morning Herald" News Service.
7.30 a.m.—Studio Music.
7.35 a.m.—A Reading.
7.45 a.m.—Studio Music.
7.50 a.m.—"Big Ben"; Marching Music for School Children.
7.55 a.m.—A.P.A. and Reuter's Cables.
7.59 a.m.—Studio Music.
8.0 a.m.—A Talk on Home Cooking and Recipes, by Miss Ruth Purnell.
8.10 a.m.—Close Down.

MIDDAY SESSION.

12.0 noon—"Big Ben"; and Announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official Weather Forecast; Rainfall.
12.5 p.m.—Studio Music.
12.10 p.m.—Summary of "Sydney Morning Herald" News Service; Rugby Wireless News.
12.20 p.m.—Studio Music.
12.30 p.m.—Marching Music for School Children.
12.40 p.m.—Annie Sedger, Mexico: "Cradle Song" (Erculer).
12.45 p.m.—The Oak Hall Instrumental Trio. (Leader, Mr. Horace Lewis).
12.50 p.m.—Studio Music.
1.0 p.m.—"Big Ben"; Weather Intelligence.
1.3 p.m.—"Evening News" Midday News Service; Producers' Distributing Society's Report.
1.50 p.m.—The Oak Hall Instrumental Trio.
1.55 p.m.—Stock Exchange, second call.
1.59 p.m.—Marching Music for School Children.
1.40 p.m.—Annie Sedger, Mexico: "Who'll Buy My Lavender?" (German).
1.45 p.m.—Studio Music.
1.50 p.m.—The Oak Hall Instrumental Trio.
1.55 p.m.—"Big Ben"; Close Down.

AFTERNOON SESSION.

2.0 p.m.—"Big Ben"; and Announcements.
2.5 p.m.—A Vocal Recital by the Pupils of Madame Emily Maria.
3.0 p.m.—Marching Music for School Children.
3.40 p.m.—Eliða Nelson, Soprano: "Sometimes in Summer" (Bernatz).
3.45 p.m.—The Oak Hall Instrumental Trio.
3.55 p.m.—Studio Music; Nea Hallist, Soprante: "A Lane in Spain" (Lombardi).
4.0 p.m.—"Big Ben"; Ethel Muller, Contralto: "Sometimes When Night is Nigh" (Phillips).
4.5 p.m.—The Oak Hall Instrumental Trio.

4.15 p.m.—Ester Herford, Soprano: "You in a Gondola" (Clark).
4.20 p.m.—Eliða Nelson, Soprano: "Fat Little Fellow" (Gordon).
4.25 p.m.—The Oak Hall Instrumental Trio.
4.30 p.m.—Thelma Lauslow, Mezzo: "My Prayer" (Salle).
4.35 p.m.—Nea Hallist, Soprante: "So Blue" (Henderson).
4.40 p.m.—Ethel Muller, Contralto: "Dearest, I Love the Forming" (Wood).
4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—Thelma Lauslow, Mezzo: "Cradle Me Low" (Brace).
4.50 p.m.—Studio Music.
4.55 p.m.—Close Down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of St. Paul.
5.45 p.m.—The "Hello Man" Talks to the Children.
6.30 p.m.—Story Time for the Young Folk.
6.40 p.m.—Studio Music.
6.50 p.m.—Late Sporting News.
7.0 p.m.—"Big Ben"; Dalgety's Market Reports (Wool, Wheat and Stock).
7.8 p.m.—Fruit and Vegetable Markets.
7.10 p.m.—Weather and Shipping News.
7.15 p.m.—Late "Evening News" News Service.

NIGHT SESSION.

7.30 0p.m.—Programme Announcements.
7.35 p.m.—Dance Donnelly, Tenor.
7.42 p.m.—Cricketing Reminiscences: A Talk Prepared by Mr. Frank Harter and delivered by Mr. L. G. Watt.
7.55 p.m.—Enid D'Arcy, Soprano.
8.0 p.m.—"Big Ben"; From the Lyric Wintergarden Theatre, George Street, Sydney. Items by Jimmy Elkin's Jazz Band.
8.15 p.m.—From the Studio: Baymond Ellis, English Operatic Baritone.
8.24 p.m.—"The Wedding of Mike" A fantasy written by Jack Wio, in which the central character will be played by "Mike," whose identity has kept listeners guessing for quite a long time.
8.40 p.m.—From the Lyric Wintergarden Theatre, George Street, Sydney. Items by Jimmy Elkin's Jazz Band.
8.50 p.m.—James Donnelly, Tenor.
8.58 p.m.—Late Weather Forecast.
9.0 p.m.—"Big Ben"; "The Two Vagabonds," Novelty Musiciana.
9.10 p.m.—From the King's Hall: Items from the Violin Recital by Rene Birkitt.
9.20 p.m.—From the Studio: Enid D'Arcy, Soprano.
9.25 p.m.—"The Two Vagabonds," Novelty Musiciana.
9.48 p.m.—Raymond Ellis, Operatic Baritone.
10.0 p.m.—"Big Ben"; From the Lyric Wintergarden Theatre, Sydney. Items by Jimmy Elkin's Jazz Band.
10.15 p.m.—From the Studio: Hal Vane and His Dance Band.
10.30 p.m.—Late Weather Forecast; Len Maurice, Baritone.
10.38 p.m.—Hal Vane's Dance Band, interspersed with Vocal Items by Len Maurice.
11.40 p.m.—National Anthem; Close Down.

2BL, SYDNEY.

Wednesday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

11 a.m.—G.P.O. Clock and chimes.
Musical programme from the Studio.
11.15 a.m.—Talk on "Motoring," by Miss Gwen Varley, Broadcasters Women's Sports Authority.
Social Notes. Replies to correspondents by Mrs. Jordan.
Talk on "Dental Hygiene" by a member of the Dental Board.

AFTERNOON SESSION.

Having information broadcast immediately after each race by courtesy of the "Sun."
12 noon—G.P.O. Clock and chimes.
Special ocean forecast and weather report.
12.4 p.m.—Brunswick Fanfare Musical Recital.

12.15 p.m.—Information, Mail, Shipping, and Port Directory.
12.18 p.m.—Close to call by wireless.
12.20 p.m.—Fruit market report.
12.22 p.m.—Vegetable market report.
12.24 p.m.—London Meta Market report.
12.26 p.m.—Dairy and Farm Produce Market report.
12.30 p.m.—G.P.O. Clock and chimes. Purzac Market report.
12.32 p.m.—Fruit Market Report.
12.34 p.m.—Fruit Market report.
12.36 p.m.—Stock Exchange report.
12.38 p.m.—News from the "Sun."
12.45 p.m.—Hilliers' Instrumental Quartet—direction—Caryl Cahing.
1 p.m.—United Intercessory Service broadcast from the basement of the Sydney Town Hall, Speaker, Mr. R. H. Swainson.
2 p.m.—G.P.O. Clock and chimes. Musical programme from the Studio.
2.10 p.m.—Racing Resumes.
2.15 p.m.—News from the "Sun."
2.20 p.m.—Operatic Talk, "The Great Composer" by Mr. Saunders.
3 p.m.—G.P.O. Clock and chimes. Talk to children and special entertainment for Children in Hospital. "How to maintain your health" by Dr. Du Maurier.
3.40 p.m.—Dungowan Dance Band, broadcast from the Dungowan Cabaret.
4 p.m.—G.P.O. Clock and chimes. News from the Studio.
4.12 p.m.—Social Story.
4.30 p.m.—Dungowan Dance Band.
4.55 p.m.—News from the "Sun."
4.58 p.m.—Resumes of night programmes.
5.0 p.m.—Racing Resumes.
4.59 p.m.—Special Ocean Forecast.
5.5 p.m.—G.P.O. Clock and chimes. Close down.

EARLY EVENING SESSION.

5.45 p.m.—G.P.O. Clock and chimes. Children's session.
6.50 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

6.50 p.m.—G.P.O. Clock and chimes.
Australian Mercantile Land and Finance Co's report.
Weather report and forecast by courtesy of Govt. Meteorologist.
Producers Distributing Society's Fruit and Vegetable Market report.
Stock Exchange reports.
Grain and Fodder report ("Sun")
Dairy Produce report ("Sun")
N.R.M.A. Talk.
7.15 p.m.—Quantity News from the "Sun."
7.30 p.m.—Talk by a member of the St. John Ambulance Association.
8.0 p.m.—G.P.O. Clock and chimes.
Broadcasters' Topical Chorus.
8.3 p.m.—An Organ recital by Mr. Penn Hughes, broadcast from the Congregational Church, Newtown.
8.23 p.m.—Miss Marjorie Skill (soprano).
8.30 p.m.—The Canterbury District Band (Bandmaster, G. S. Suter), Broadcast from Drake's Hall, Campbell.
8.50 p.m.—Mr. Harry Cash (comedian).
8.57 p.m.—Mr. G. Fry (The Ukulele Troubadour).
9.4 p.m.—Weather report and forecast by courtesy of Mr. C. J. Marco, Govt. Meteorologist.
9.5 p.m.—Broadcasters' All Sports Expert will talk on "Boxing, Golf, and general sporting news."
9.20 p.m.—Mr. Arthur Morley (as old stager of old ballads).
9.30 p.m.—The Canterbury District Band.
9.50 p.m.—Miss Marjorie Skill.
9.53 p.m.—Resumé of following day's programme.
10 p.m.—G.P.O. Clock and chimes.
10.1 p.m.—Al. Jack's Crackerjacks broadcast from the ballroom of the Bondi Casino.
10.11 p.m.—Mr. Harry Cash.
10.18 p.m.—Al. Jack's Crackerjacks broadcast from the ballroom of the Bondi Casino.
10.28 p.m.—Mr. G. Fry.
10.35 p.m.—Mr. Arthur Morley.
10.45 p.m.—"Sun" news service.
10.50 p.m.—Al. Jack's Crackerjacks broadcast from the ballroom of the Bondi Casino.
11 p.m.—G.P.O. Clock and chimes.
National Anthem.

2GB, SYDNEY

Wednesday.

MORNING SESSION.

- 9 a.m.—Music.
- 9.5 a.m.—Cheerful Talk.
- 9.15 p.m.—Music.
- 9.29 a.m.—Psychological Class.
- 9.30 a.m.—Music.
- 9.45 a.m.—Health and Diet.
- 10 a.m.—Close down.

AFTERNOON SESSION.

- 3.30 p.m.—Music.
- 3.37 p.m.—Address.
- 3.52 p.m.—Music.
- 4 p.m.—Address.
- 4.22 p.m.—Music.
- 4.30 p.m.—Close down.

EVENING SESSION.

- 7 p.m.—Music.
- 7.5 p.m.—Address.
- 7.15 p.m.—Music.
- 7.29 p.m.—Address.
- 7.30 p.m.—Music.
- 7.35 p.m.—Address.
- 7.59 p.m.—Music and announcements.
- 7.55 p.m.—Songs by Eva Czeizler.
 1. "O dry these tears" (del Risso).
 2. "Whatever it is—let it be!" (Lohr).

NIGHT SESSION.

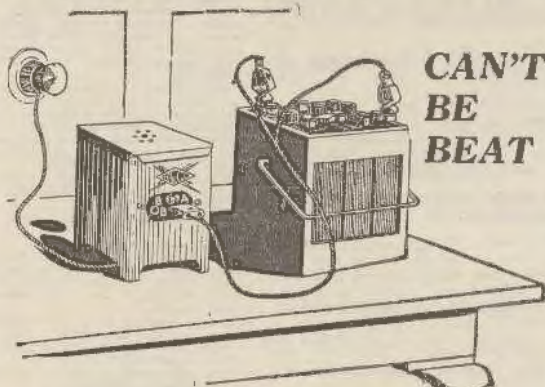
- 8.5 p.m.—Address.
- 8.29 p.m.—Instrumental Trio. Dan Scully, Marjelle Lang, Ada Brook.
- 8.35 p.m.—Clement Husking Quartet.
 1. "Roses underneath the snow."
 2. "The Merry Tinklers."
 3. "Hurrah for the glory."
- Ethel Jones, Eva Croft, Thomas Hall, Clement Husking.
- 8.45 p.m.—Violin solos Dan Scully.
 1. "Romance in F." (Beethoven).
 2. "Mimosa" (Paganini).
- 8.52 p.m.—Piano solo by Emily Burke.
- 9 p.m.—Recital by Mr. Heath Burdock and Miss Agnes Love. Humorous Sketch.
- 9.15 p.m.—Songs by Ethel Jones.
 1. "East Breeze."
 2. "A Spring Triolet" (May Erabe).
- 8.23 p.m.—Instrumental Trio, Dan Scully, Marjelle Lang, Ada Brook.
- 8.35 p.m.—Clement Husking Quartet.
 1. "The Wayside Wolf."
 2. "Hail, smiling morn."
 3. "Ah thro' the night."
- Ethel Jones, Eva Croft, Thomas Hall, Clement Husking.
- 9.45 p.m.—Songs by Clement Husking.
 1. "Lake Isle of Innisfree" (Phillips Campbell).
 2. "The Vales of England" (Paul Radle).
- 9.50 p.m.—Talk.
- 10 p.m.—Close down.

2 UW, SYDNEY

Wednesday.

- 9 a.m.—News, shipping, mails, studio news.
- 9.45 a.m.—Women's Session.
- 9.59 a.m.—Resume of forward programme.
- 10 a.m.—Close down.
- 3 p.m.—Studio News.
- 2.59 p.m.—Resume of forward programme.
- 3 p.m.—Close down.
- 5 p.m.—Dance and Instrumental Items from Studio.
- 5.59 p.m.—Resume of forward items.
- 6 p.m.—Close down.
- 7 p.m.—Where to Go.
- 7.10 p.m.—Studio News.
- 7.45 p.m.—Jazz interlude, by Gordon James McManis.
- 8 p.m.—Manoforte selections, Lionel Handley:
 - (a) "What are we waiting for?"
 - (b) "Ukulele Dream Girl."
 - (c) "Blue Skies."
 - (d) "It All Depends on You."
 - (e) "Who" from "Sunny."
 - (f) "Mary Lou."
 - (g) "Meadow Lark."
 - (h) "Baby Face."
- 8.23 p.m.—Resume of forward programme.
- 9.30 p.m.—Close down.

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I asked Tom if he was trying auto-suggestion on his typist!

Tom says it's just an ornament—and that so far as women are concerned, mud baths, bobbed hair and the "daily dozen," make a grandmother look like a flapper (out of bathing costume).

Alas! poor men! Their last remaining hope of eternal youth lies in "Chrome."

Ten years ago Tom looked as young and happy as only a thirty-year-old bachelor can look. To-day he looks as harassed and henpecked as Solomon with his forty wives.

I suggested a course of "Chrome" treatment. He looked blank, so I hastened to explain—

"Chrome, my dear old chap, is the greatest preservative in the world. You can't hop-scotch a hole in Chrome-preserved leather, and you can't knock a dint in Chrome-built metal with a newly-wed's Christmas pudding.

"It's even used in the best paint and the fiercest language can't raise a blister on Chrome paint."

Then I snapped out my ace!

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In the end, Tom declared that he felt ten years younger.

As usual, he says, his wife won't nag him any more on the matter of new batteries for the wireless.

Nevermore will he roam from the good old Burgess Chrome!

3LO, MELBOURNE. Wednesday.

MIDDAY SESSION.
11 a.m.—Welcome to His Excellency LORD SOMERS, Governor of Victoria, by the Borough Council of Shepparton.

11.40 a.m.—Reception to the Hon. L. G. EMERY, Secretary of State for the Dominions, by His Worship the Mayor, Sir STEPHEN MORELL, and Councillors of Melbourne, transmission from Melbourne Town Hall.

12 noon.—Melbourne Observatory time signal. Musical notices received by the Australian Music and Metals Association from the London Stock Exchange this day. British official wireless news from Rugby. Roster's and the Australian Press Association cables.

12.20 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:
"That's Dolly" (Kahn).
"There's Everything Nice About You" (Bryan).
"The Lullaby Lullaby" (Leslie).

12.30 p.m.—Official opening Shepparton Agricultural Society's Show by His Excellency, LORD SOMERS, Governor of Victoria, transmitted from the Shepparton Show Grounds.

12.37 p.m.—Stock Exchange information.
12.40 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:
"Wistful and Blue" (Biting).
"Cook a Doodle, I'm Off My Noodle, My Baby's Back" (Johnson).

12.50 p.m.—GISSO and BRADFORD, operable vocalists:
Duet, "Lucia di Lammermoor" (Donizetti).
Lynda Bradford, "Heaps of Lickins" (R. B. Clarke).
Duet, "A-h dove sei grande" from Il Trovatore (Verdi).

1 p.m.—Melbourne Observatory time signal. "Opportunity has hair in front, behind she is bald; if you seize her by the forelock you may hold her, but, if suffered to escape, she jumps herself can catch her again."—DO IT NOW.

1.1 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:
"You Went Away Too Far, and Stayed Away Too Long" (Bryan).
"The Soudan Princes Walk."
"He's the Last Word" (Kahn).

1.10 p.m.—Meteorological information. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, South Australia, Tasmania and New South Wales.

1.17 p.m.—JOE ARONSON AND HIS SYNCOPATING SYMPHONISTS:
"Big Zig" Phase Solo (Horn).
"The Masher Doodle Doo" (Horn).
"What are We Waiting For?" (Callow).

1.24 p.m.—FRED WALKER, baritone:
"A Spirit Flower" (Campbell-Tipton).
"A Sprig of Boreas" (F. Hunt).
1.30 p.m.—Rotary Club Luncheon—transmitted from Anzac House. Speaker: ROTARIAN GEO. E. EMERY.
"Stock Exchange Procedure."

2 p.m.—Close down.
2.15 p.m.—Description of Hurdle Race, two miles, Kyneton races, by "Muskiet," of the "Sporting Globe."

2.20 p.m.—Close down.
2.26 p.m.—Description of Novice Handicap, five furlongs, Kyneton races, by "Muskiet," of the "Sporting Globe."
2.55 p.m.—Close down.

AFTERNOON SESSION.
3 p.m.—Official opening of the National Rose Society's Annual Show by the Lord Mayor (Sir Stephen Morell). Introductory remarks by the President (Mr. T. A. Stewart). Transmission from the Masonic Hall, Collins-street, Melbourne.

3.15 p.m.—STUDIO QUARTET:
"Among the Houses" (Lake).

3.25 p.m.—GLADYS LAMPE, contralto:
"Boia Eguas" (Lully).
"Lament of Isle" (Hartock).

3.30 p.m.—Description of Kyneton Handicap, one mile, Kyneton races, by "Muskiet," of the "Sporting Globe."

3.35 p.m.—BERTHA JOERGENSEN, violin:
"Berceuse" (Cui).

3.43 p.m.—STATION TRIO:
"Italian Summer Suite" (Laloe).

3.53 p.m.—FRED WALKER, baritone:
"Credo," from Oello (Verdi).
"The Birth of Morn" (F. Leau).

4 p.m.—Description of 14.2 Five Furlong, Kyneton races, by "Muskiet," of the "Sporting Globe."

4.5 p.m.—AGNES FORTUNE, piano:
"Sax and Fandul Dance" (Glen).

4.12 p.m.—WARDE MORGAN, tenor:
"I Look Into Your Garden,"
"Sea Fever."

4.20 p.m.—REGINALD BRADLEY AND AGNES FORTUNE, violin and piano:
Sonata (Beethoven).

4.30 p.m.—Description of Distance Handicap Trot, nine furlongs, Kyneton races, by "Muskiet," of the "Sporting Globe."

4.35 p.m.—"Herald" news service. Stock Exchange information.

5 p.m.—Description of Flying Handicap, six furlongs, Kyneton races, by "Muskiet," of the "Sporting Globe."

EVENING SESSION.
CHILDREN'S HOUR.

5.30 p.m.—Answers to letters and birthday greetings by "MARY MARY."

6 p.m.—STUDIO QUARTET:
"Twilight Musings" (Langey).

6.10 p.m.—"MARY MARY."
Stories and poems for the little ones.

6.20 p.m.—Presentation of Wireless Set to Saint Nicholas Boys' Home, Glasgow, by St. Nicholas' Harp. Speech by Canon G. K. Lambie, Transmitter from the Studio.

6.27 p.m.—"MARY MARY":
A story for the elder children.

6.40 p.m.—"Herald" news service. Weather reports. Shipping movements.

6.47 p.m.—Stock exchange reports.

6.52 p.m.—Fish market reports from J. R. Borrett, Ltd. Rabbit prices.

6.55 p.m.—River reports.

6.58 p.m.—Market reports. Official reports of Newmarket sheep sales by the Association of Stock and Station Agents, Bourke-street, Melbourne. Poultry, grain, hay, straw, lute, dairy produce. Potatoes and onions. Fruit market reports. Wholesale prices.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the DEPARTMENT OF AGRICULTURE. Mr. R. CROWE, Acting Director of Agriculture, will speak on: "Marketing Methods."

7.30 p.m.—Mr. A. G. LEITH, M.C.E., A.M.I.E. (Aust.), Hon. Sec. Institution of Engineers of Australia (Melbourne Division), "The Engineer and the Community."

7.45 p.m.—CAPTAIN G. H. PETERS:
"Books, Wise and Otherwise."

8 p.m.—Under the auspices of the Health Association of Australia the HEALTH MESSAGE for October is: "A good complexion cannot be bought. It must be earned by—1. Cleanliness. 2. Fresh Air. 3. Exercise. 4. Plain, wholesome food. Paint your cheeks from the inside."

8.1 p.m.—"FIDELIO":
An Opera in two acts, by Beethoven. By the MELBA CONSERVATORIO OPERA SOCIETY. Mr. A. C. BARTLEMAN'S MALE CHOIR AND THE MELBOURNE SYMPHONY ORCHESTRA under the direction of Mr. FRITZ HART.

CHARACTERS.
Leonora (under the name of Fidelio), ISLES BEGGAR.

Marcellina (the Jailer's daughter), GRETA CALLOW.

Florestan (Leonora's husband), STANLEY ALLEN.

Jaquino (Porter of the Prison), LENNOX BROWN.

Pizarro (Governor of the Prison), HOWARD ANDREWS.

Fernando (Minister of State), E. J. MANN.

(Rocco, the Jailor), J. HOWARD KING.
Chorus of Soldiers, Prisoners and Townspeople.

ACT I.

Scene: The courtyard of the prison. Jaquino making love to Marcellina.

Overture.
Duet (Marcellina, Jaquino): "At Last, Dear, I Find You Alone."

Aria (Marcellina): "Oh, Day of Joy!"

Quartet (Marcellina, Leonora, Jaquino, Rocco): "He Doth to Me Incline."

Aria (Rocco): "Life is Nothing Without Money."

Trio (Leonora, Marcellina Rocco): "Well Said, My Son."

March.
Aria with Chorus (Pizarro and Chorus of Soldiers): "Hail What a Day in This."

Duet, "Come, Fellow, Hearken, Thou Must Obey Me."

Recitative and Aria (Leonora): "Thou Monstrous Fiend."

Prisoners Chorus: "Oh, What Delight!"

Chorus: "Farewell, Thou Warm and Sunny Beam." ACT II.

Scene: The secret prison where Florestan is confined. He is alone and asleep, when Rocco and Leonora enter.

Recitative and Aria (Florestan): "Heav'n What Gloom Profound."

Duet (Leonora and Rocco): "Stay Not Thy Work."

Trio (Florestan, Leonora, Rocco): "In Better Words."

Quartet (Leonora, Florestan, Pizarro, Rocco): "Thou Diest."

Duet (Leonora, Florestan): "Oh, Blissful Hour."

Finale: Chorus, "Hail to the Day."

The whole Company: "Good Mor Tone Enough Expresses all the Rapture of this Day."

10.15 p.m.—"Argus" news service. Meteorological information. British official wireless news from Rugby.

THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for today is for: PEDESTRIANS: "Obey the traffic officer at all times. He is there to make the streets safe for you."

10.25 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS: "Sunny Boy" (Stamper).

"Swinging Along" (Hay).

"The Love Waltz" (Jaquet).

10.35 p.m.—MARIE LAWTON, the girl with the voice and the harp: "One Fine Day" (Puccini).

"Dream of Delight" (Nicholls).

10.45 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS: "Lonely Acres in the West" (Hodjman).

"Charitas"—"Vivanna" (Waltz (Ribo)).

"Honey" (Rainford).

10.52 p.m.—WARDE MORGAN, tenor: "Dirge" (Cathie).

"O, Mistress Mine" (Quilter).

11 p.m.—OUR GREAT THOUGHT: "We should always keep open and free a corner of our head in which to make room for the opinions of our friends. Let us have heart and head hospitably.—Touher.

11.1 p.m.—JOE ARONSON AND HIS SYMPHONIZING SYMPHONISTS: "Two Little Bluebirds" (Kern).

"Who" (Kern).

"My Tumble-down Cottage of Dreams" (Leslie).

"Wottle You Have with Me."

"Whipped Cream"—Piano solo (Lange).

"Take in the Sun" (Woods).

"Nina" (Nem-Ea) (Dennis).

"Cherie, Bairie Bee from Sunny Italy" (Lewis).

"Lo Down" (Ross).

"Oh, What a Pal Was Whoosin'" (Eahn).

"Secrets o' Mine" (O'Hagan).

"The Wind Blew Through his Whiskers just the Same" (Conrad).

11.40 p.m.—GOD SAVE THE KING.

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NEW SYSTEM
TELEPHONES Pty. Ltd.
280 Castlereagh St. Sydney

Wednesday.

EARLY MORNING SESSION.

- 6.30 a.m.—Physical culture session.
- 7 a.m.—Close down.
- MIDDAY SESSION.
- 1 p.m.—Market reports; weather information; "The Daily Mail" and "The Daily Standard" news.
- FROM HOTEL CARLTON—
- 1.30 p.m.—Lunch hour music played by Ilott's Orchestra.
- FROM THE OBSERVATORY—
- 1.55 p.m.—Standard time signal.
- 2 p.m.—Close down.
- AFTERNOON SESSION.
- FROM HOTEL CARLTON—
- 3.30 p.m.—Afternoon Tea music from the lounge, played by Hotel Carlton Symphony Orchestra.
- FROM THE STUDIO—
- 4.15 p.m.—"The Telegraph" news.
- 4.30 p.m.—Close down.
- EARLY EVENING SESSION.

- 6 p.m.—"Daily Standard" news; announcements.
- 6.15 p.m.—A Beauty Talk by Dorothea Webster.
- 6.30 p.m.—The Children's Hour—Stories by "Little Miss Marjorie."
- 7 p.m.—Special news service; market reports; stock reports.
- 7.30 p.m.—Weather news; announcements.
- 7.45 p.m.—Standard time signal.
- 7.45 p.m.—Lectures: "Physical Basis of Hereditary" by Mr. J. R. A. McMillan (Plant Breeder, Queensland Agricultural High School and College).

NIGHT SESSION.

- PART I.—A CLASSICAL RECITAL.
- Three-quarters of an hour's classical music by Mr. Eric Haynes' party.
- 8 p.m.—FROM THE STUDIO:
- Trio for Violin, 'Cello and Piano;
- "Serenade" (Josef Trousselle).
- Violin, Mr. Eric Haynes; 'Cello, Miss Ottilie Cloake; Piano, Miss Cecile Fritchard.
- Viola Solo:
- (a) "An Old Fairy Tale" (Gabriel Marie).
- (b) "Coq et Poulet" (Rooster and Hen), from "Scenes Humoristiques" (Leonard).
- Mr. Eric Haynes.
- Baritone Solos:
- (a) "A Page's Road Song" (Novello).
- (b) "The Drowsy Slopper" (Greechaninov).
- Mr. Len. Edye.
- Piano Solo:
- "Largo" from Sonata No. 7 in D-Major (Beethoven).
- Miss Cecile Fritchard.
- 'Cello Solo:
- (a) "Softly Awakes My Heart" (Saint-Saens).
- (b) "Minuet" (Mozart).
- Miss Ottilie Cloake.
- Baritone Solos:
- (a) "The Devout Lover" (White)—Violin obligato by Mr. Eric Haynes.
- (b) "The Unforeseen" (Cyril Scott).
- Mr. Len. Edye.
- Piano Solos:
- (a) "Gade" (Greig).
- (b) "Albumblatt" (Greig).
- Miss Cecile Fritchard.
- Viola Solo:
- (a) "To a Wild Rose" (Macdowell-Hartmann).
- (b) "Sicilliana & Rigandon" (Francoeur-Kreiser).
- Mr. Eric Haynes.
- Suite for Violin, 'Cello and Piano—(Paul Graener).
- Violin, Mr. Eric Haynes; 'Cello, Miss Ottilie Cloake; Piano, Miss Cecile Fritchard.
- PART II.—STUDIO PROGRAMME.
- 8.45 p.m.—Overture: "Rio Grande" (Bergenholt).
- The Clarwin Orchestra. (Conductor, Mr. S. Henry).
- 10 p.m.—"The Daily Mail" news; weather news. Close down.

Wednesday.

- 12.30 p.m.—Time in.
- 12.35 p.m.—Market, News, and Gables.
- 1 p.m.—Time signal from Perth Observatory.
- 1.1 p.m.—Weather Notes, supplied by the Meteorological Bureau of Western Australia.
- A RELAYED CONCERT.
- 1.2 p.m.—Lunch-hour Concert, arranged by Messrs. Mangrove's, Limited, relayed from Lyric House, Murray Street.
- 1.30 p.m.—Studio Quartette.
- 2 p.m.—Close down.
- 2.30 p.m.—Time in.
- 3.35 p.m.—Musical programme from the Studio, including Vocal and Instrumental numbers.
- Orchestral music by Ilott's Orchestra, relayed from Hoyt's Regent Theatres, William Street.
- 4.30 p.m.—Close down.
- 5.45 p.m.—Time in.
- 6.50 p.m.—Stories for the Kiddies, by Auntie June.
- 7.30 p.m.—Stocks, Markets, News.
- 7.45 p.m.—Talk.
- 8 p.m.—Time signal from Perth Observatory.
- 8.1 p.m.—Weather notes, supplied by the Meteorological Bureau of Western Australia.
- VARIETY NIGHT.
- 8.3 p.m.—Items by the Studio String Trio; Miss Evelyn Willis, A.R.C.M., piano.
- Mr. H. G. Hasham, 'cello.
- Mr. H. T. Newton, violin.
- Dance music, by Colin Smith and his Dance Orchestra, relayed from the Perth Palais Royal.
- 10 p.m.—Late news items, by courtesy of "The Daily News" Newspaper Coy.
- Ships within range announcement.
- Weather Report and Forecast.
- 10.30 p.m.—Close down.
- 100 METRE TRANSMISSION.
- Simultaneous broadcast on 100 Metres of Musical programme given on 1250 Metres, commencing at 8 p.m.

Thurs., Oct. 27 2FC, SYDNEY

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and programme announcements.
- 10.5 a.m.—Studio music.
- 10.15 p.m.—"Sydney Morning Herald" news service.
- 10.30 a.m.—Studio music.
- 10.35 a.m.—Last minute racing information by the 2FC Racing Commissioner.
- 10.45 a.m.—Studio music.
- 11 a.m.—"Big Ben." Marching music for school children.
- 11.5 a.m.—A P.A. and Reuter's Cables.
- 11.10 a.m.—Studio music.
- 11.15 a.m.—A talk on home cooking and recipes by Miss Ruth Furst.
- 11.50 a.m.—Close down.

MIDDAY SESSION.

- 12 noon.—"Big Ben," and announcements.
- 12.3 p.m.—Stock Exchange, first call.
- 12.3 p.m.—Official weather forecast, rainfall.
- 12.5 p.m.—Studio music.
- 12.10 p.m.—Summary of "Sydney Morning Herald" news service. Rugby wireless news.
- 12.25 p.m.—Studio music.
- 12.30 p.m.—Marching music for school children.
- 12.40 p.m.—Lorraine Jarman, soprano.
- "A brown bird singing" (Bardou Wood).
- 12.45 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 12.55 p.m.—Studio music.
- 1 p.m.—"Big Ben." Weather Intelligence.
- 1.3 p.m.—"Evening News" midday news service. Producers' Distributing Society's Report.
- 1.35 p.m.—THE OAK HALL INSTRUMENTAL TRIO.
- 1.25 p.m.—Stock Exchange, second call.
- 1.30 p.m.—Marching music for school children.

1.40 p.m.—Lorraine Jarman, soprano:
"I heard you singing" (Coates).
1.45 p.m.—Studio music.
1.50 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

1.55 p.m.—Late sporting news by the 2FC Racing Commission.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben," and programme announcements.

3.3 p.m.—Duet, "The Two Festive Carollers."
(a) "Parades in Mother's Eyes" (Sheard),
(b) "She's got it" (Gilbert).

3.10 p.m.—From the Christ Church, St. Laurence: An Organ Recital by Mr. Christian Heilemann.

3.30 p.m.—Marching music for school children.
3.40 p.m.—From Farmer's Tea Rooms, Joyce Gillespie, soprano:
"The Shepherdess" (Tate).

3.45 p.m.—From the Christ Church, St. Laurence:
Organ solos by Mr. Christian Heilemann.

4 p.m.—"Big Ben." From Farmer's Tea Rooms:
Dorothy Benbow, contralto:
"The Bell of Soho" (Drummond).

4.5 p.m.—From the Christ Church, St. Laurence: Organ solos by Mr. Christian Heilemann.

4.20 p.m.—From Farmer's Tea Rooms, Joyce Gillespie, soprano:
"Ship of my Delight" (Phillips).

4.25 p.m.—THE OAK HALL INSTRUMENTAL TRIO.

4.30 p.m.—The Two Festive Carollers, Duets,
(a) "Just Once again" (Donaldson),
(b) "Honolulu Moon" (Lawrence).

4.35 p.m.—Kathlene Cracknell, contralto:
"The Yellow Dusk" (Horsman).

4.40 p.m.—Dorothy Benbow, contralto:
"The Singer" (Drummond).

4.45 p.m.—Stock Exchange, third call.
4.47 p.m.—FOSSIE BRAKEILL, contralto:
"Thoughts have wings" (Lehmann).

4.50 p.m.—Kathlene Cracknell, contralto:
"The Bitterness of Love" (Dunn).

4.53 p.m.—Studio music.
4.55 p.m.—Fosie Brakeil, contralto:
"Child what sings the morning" (Mallinson).

5 p.m.—"Big Ben." Close down.
EARLY EVENING SESSION.

5.45 p.m.—Programme announcements and the chimes of 2FC.

5.45 p.m.—The "Hells Man" talks to the children.

5.50 p.m.—Story time for the young folk.
6.40 p.m.—Studio music.
6.50 p.m.—Late sporting news.

7 p.m.—"Big Ben." Dalcry's market reports (wool, wheat and stock).
7.5 p.m.—Fruit and vegetable markets.

7.10 p.m.—Weather and shipping news.
7.15 p.m.—Late "Evening News" news service.

NIGHT SESSION.

7.30 p.m.—Programme announcements.
7.35 p.m.—Studio items.

7.45 p.m.—A play produced by Scott Alexander and written by Cedricrington Ball.

8 p.m.—"Big Ben." From Pallina's Concert Salon. Items by The Sydney Madrigal Society.

8.30 p.m.—From the Studio, Scott Alexander in a short sketch.

8.45 p.m.—From the great hall, Sydney University. A concert in aid of the Sydney University and organised by the Kretschmann Club.

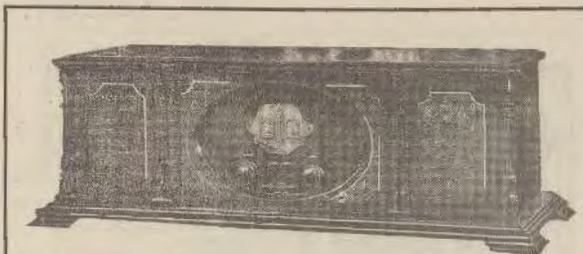
A programme submitted by the following artists will be given:
Bene Maxwell, soprano,
Instrumental Trio: Ruby Rich (President of the Club) pianist,
Cyril Monk, violinist,
Julius Van der Klei, Cellist.

"The Ravet Trio." Preceded by a short speech on this musical work by Professor Radcliffe Brown.

8.15 p.m.—From the Studio. During the interval at the University Hall, items by the 2FC Dance Band.

8.25 p.m.—From the Great Hall, Sydney University: Continuation of the Concert organised by the Kretschmann Club.

10.15 p.m.—From the Studio, Dance items until 11.30 p.m.
10.30 p.m.—Late weather forecast.
11.10 p.m.—National Anthem. Close down.



for ALL reception

A Five Valve Receiver

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F A R M E R ' S

BOX 497AA, G.P.O.

2BL, SYDNEY.

Thursday.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10.30 a.m.—G.P.O. clock and chimes. Musical programme from the Studio.
 10.40 a.m.—News from the "Daily Telegraph" Pictorial.
 10.50 a.m.—Musical programme from the Studio.
 11 a.m.—G.P.O. clock and chimes. Announcements.
 11.5 a.m.—Musical programme from the Studio.
 11.15 a.m.—Social notes. Replies to correspondents by Mrs. Jordan.
 Talk on "Extending the £250 Home" by Mr. Brogan.
 12 noon.—G.P.O. clock and chimes. Special ocean forecast and weather report.
 12.3 p.m.—Brunswick Panatropic Musical Recital.
 12.15 p.m.—Information, mails, shipping, and port directory.
 12.18 p.m.—Boats in call by wireless.
 12.20 p.m.—Fruit market report.
 12.22 p.m.—Vegetable market report.
 12.24 p.m.—London metal market report.
 12.25 p.m.—Dairy and farm produce market report.
 12.30 p.m.—G.P.O. clock and chimes. Forage market report.
 12.32 p.m.—Fish market report.
 12.34 p.m.—Rabbit market report.
 12.36 p.m.—Stock Exchange report.
 12.38 p.m.—News from the "Sun."
 12.45 p.m.—Miller's Instrumental Quartet—Directorian, Caryl Castling.
 1.27 p.m.—Stock Exchange report.
 1.30 p.m.—G.P.O. clock and chimes. Talk to children and mental entertainment for children in hospital.
 2 p.m.—G.P.O. clock and chimes. Close down.

AFTERNOON SESSION.

- Reading information broadcast immediately after each race, by courtesy of the "Sun."
 3 p.m.—G.P.O. clock and chimes. Musical programme from the Studio.
 3.10 p.m.—News from the "Sun."
 3.20 p.m.—Musical programme from the Studio.
 3.50 p.m.—News from the "Sun."
 3.40 p.m.—Dungowan Dance Band broadcast from the Dungowan Cabaret.
 4 p.m.—G.P.O. clock and chimes. News from the "Sun."
 4.15 p.m.—Serial story.
 4.30 p.m.—Dungowan Dance Band.
 4.40 p.m.—News from the "Sun."
 4.55 p.m.—Resume of night's programme.
 4.57 p.m.—Races resume.
 4.59 p.m.—Special ocean forecast.
 5 p.m.—G.P.O. clock and chimes. Close down.

EARLY EVENING SESSION.

- 5.45 p.m.—G.P.O. clock and chimes. Children's session.
 6 p.m.—The pupils of Miss Moulton Scully will entertain the kiddies.
 6.30 p.m.—Musical programme from the Studio.

SPECIAL COUNTRY SESSION.

- 7 p.m.—G.P.O. clock and chimes. Australian Mercantile, Land and Finance Co.'s report.
 Weather report and forecast by courtesy of Government Meteorologist.
 Producers' Distributing Society's fruit and vegetable market report.

Stock Exchange reports.
 Grain and fodder report ("Sun").
 Dairy produce report ("Sun").
 Weekly traffic bulletin.

- 7.10 p.m.—Country news from the "Sun."
 7.20 p.m.—Helpful hints to listeners by Mr. Alan Burrows.
 7.30 p.m.—Talk on "Defence Progress in England," by Mr. Markham.
 8 p.m.—G.P.O. clock and chimes. Broadcasters' Topical Chorus. An hour's programme presented by Home Recreations, Ltd.
 8.3 p.m.—The Salonica Dance Orchestra.
 8.18 p.m.—Mr. Norman Wright, tenor.
 8.20 p.m.—The Salonica Dance Orchestra.
 8.30 p.m.—Mr. Compton Courts, comedian: Childish stories.
 8.55 p.m.—The Salonica Dance Orchestra.
 8.48 p.m.—Tenor songs by Mr. Norman Wright.
 8.55 p.m.—The Salonica Dance Orchestra.
 9.5 p.m.—Weather report and forecast by courtesy of Mr. C. J. Mares, Government Meteorologist.
 9.6 p.m.—Broadcasters' Radio Players, under the direction of Miss Nellie Ferguson, will present Boucault's Irish drama, "Arab-No-Pogue." Incidental music by Broadcasters' Instrumental Trio under the direction of Mr. G. Vern Barnett.
 10.45 p.m.—Al. Jack's Crackerjacks broadcast from the ballroom of the Bondi Casino.
 11 p.m.—G.P.O. clock and chimes.

3LO, MELBOURNE

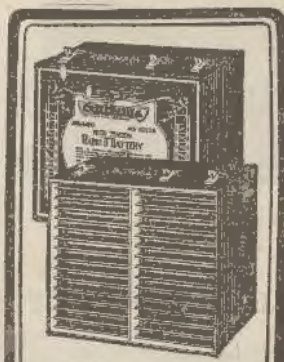
Thursday.

MIDDAY SESSION.

- 12.0 noon.—Melbourne Observatory Time Signal: Metal Prices received by the Australian Mines and Metals Association from the London Stock Exchange this day; Resler's and the Australian Press Association Cables; British Official Wireless News from Rugby; "Argus" News Service.
 12.15 p.m.—Under the auspices of the Concert-goers and Community Singers' Association: COMMUNITY SINGING, transmitted from the Assembly Hall, Collins Street, Melbourne.
 1.45 p.m.—Stock Exchange Information; Weather Forecasts for Victoria, Tasmania, South Australia and New South Wales; Ocean Forecast; River Reports, Rainfall for Victoria, Tasmania, South Australia and New South Wales.
 2.0 p.m.—Close Down.

AFTERNOON SESSION.

- 3.0 p.m.—Opening of New Presbyterian Girls' College, "Moronga," Geelong, by His Excellency the Governor-General, Lord Stonehaven; Speakers: Hon. H. S. W. Lawson, President of the College; Right Rev. David Miller, Moderator of the Presbyterian Church of Victoria. Musical Items by the Geelong City Band and the School Choir. Conductor: Mr. J. Dawson. Transmission from Geelong.
 4.0 p.m.—STUDIO QUARTETTE. Selection from Tachakowsky.
 4.10 p.m.—MARIE LAWTON, the girl with the voice and the harp. "In My Wild Mountain Valley." "Blue Skies" (Gibbins).
 4.17 p.m.—STUDIO QUARTETTE. Further Selections from Tachakowsky.
 4.24 p.m.—GLADYS LAMPE, Contralto: "Divinites du Strix"—from Alceste (Gluck).
 4.31 p.m.—"Herald" News Service; Stock Exchange Information.



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twice as long

Columbia Heavy Duty 45 volt "B" Batteries will outlast any light-duty 45 volt "B" Battery two to one, regardless of the number and kind of tubes used! Moreover—though lasting twice as long, they cost only one-third more.

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4.46 p.m.—EVENSONG, transmitted from ST. PAUL'S CATHEDRAL.
 5.30 p.m.—Acceptances for Saturday's Race V.R.C., Wellington.

EVENING SESSION.

5.55 p.m.—Answers to Letters and Birthday Greetings by "MARY GUMLEAF."

6.5 p.m.—STUDIO QUARTETTE:
 "Fifth Nocturne" (Leybach).

8.15 p.m.—MISS YETTY LANDAU presents her Junior Pupils in a Pastoral of Nursery Rhyme Land "MOTHER GOOSE." Adapted and arranged by Frank Pearson.
 Cast of Characters:
 Old Mother Goose . . . DOROTHY BETHUNE
 Her Son, Jack, "A smart-looking lad," "Not very good, and not very bad."

Moses ("That naughty old Jew—Who cheated him out of the half of his due").
 ROSMIE SCARROTT.

The Wicked Squire ELLA REWELL
 GOOSEY-POOSEY ("Laid him an egg of very pure gold") . . . JULIE DICKENS
 Chorus of Goodings and Ganders.
 Scene 1: Exterior of Mother Goose's Cottage. (Supposition.)

Scene 2: Same as Scene 1. Some days later. (Realisation.)

Musical Numbers incidental to the play.

Scene 1:
 Duet: "Cross Patch," Mother and Squire.
 Duet: "Goosey Goosey Gander," Jack and Mother.

Vindictive Gastronomical—
 Solo: "Please to Remember," The Squire.
 Trio: "Bark at that Cackle," Mother, Jack and Goosey.

Scene 2:
 Quartet: "Show Him the Door," Mother, Jack, Goosey and Squire.
 Unpretending Solo: "Jack, That's Flat," Jack.

Air: "Walk on Tip-toe," Moses.
 Finale: "Goosey, Goosey, Gander," The Company.

Accompanist: Miss Elsie Mitchell.
 THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE FOR TODAY IS FOR CHILDREN.

"Be sure to use your eyes and ears, and think a little, too, and you will catch an accident before it catches you."

8.40 p.m.—" Herald " News Service; Weather Reports; Shipping Movements.

8.47 p.m.—Stock Exchange Reports.

8.52 p.m.—Fish Market Reports by J. R. Borrett, Ltd.; Rabbit Prices.

8.55 p.m.—Biver Reports.

8.58 p.m.—Market Reports: Official Reports of Newmarket Sheep Sales by the Associated Stock and Station Agents, Hurric Street, Melbourne. Poultry, Grain, Hay, Straw, Fats, Dairy Produce, Potatoes and Onions.

7.8 p.m.—Market Reports of Fruit by the Victorian Fruitgrowers' Association; Retail Prices; Fruit Market Reports; Wholesale Prices; Ballarat Pic Market Report, by the Ballarat Stock and Station Agents.

NIGHT SESSION.

7.15 p.m.—MR. A. W. JACKSON:
 "Golf."

7.30 p.m.—Under the auspices of The Royal Automobile Club of Victoria, MR. E. W. COX, vice-president, will speak on:
 "Pressing Motor Problems of To-day."

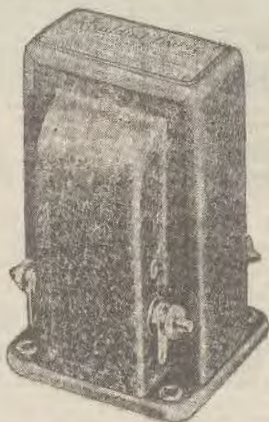
7.45 p.m.—MISS MARIE BURKE, who is now appearing in "The Whole Town's Talking," Theatre Royal, Melbourne, will speak to you from her dressing-room, by permission of J. C. Williamson, Ltd.

8.0 p.m.—Under the auspices of the Health Association of Australasia, the Health Message for to-day is—

"A great need in our civilization is not only caring for the weak and sick, but making the fit fitter."

8.1 p.m.—MR. ROD McEGEEG:
 "Cricket."

The World's Super Transformer



Obtainable
 all
 Dealers

RAULAND-
 LYRIC
 Now Only
 45/-

Tonal Beauty Lies Deeper Than The Varnish

Deeper even than the Circuit Diagram—
 chiefly indeed in the Audio Transformer.

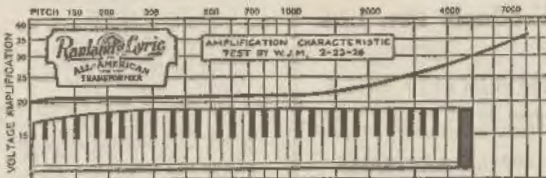


Fig. 1. Rauland-Lyric Curve

Figure 1 shows the voltage amplification of the "Rauland-Lyric" at various frequencies. It will be noted that the amplification is very uniform, up to 3,000 cycles, and beyond this point there is a gentle increase until 8,000 cycles is reached. From the standpoint of practical amplification, this is of great importance. Most loud speakers have a decided tendency to slight these higher frequencies, and the reproduction from an amplifier having a true straight-line characteristic, would be quite inefficient on some harmonics and overtones. This, of course, would destroy the full rounded quality of the original music or voice. The "Rauland-Lyric" compensates for these loud speaker deficiencies by supplying extra power at the higher frequencies, and faithfully reproduces those qualities which distinguish the various musical instruments from one another.

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45 volts, Price 35/- ea.

The test made by Professor Laby, of Melbourne University, showed that the capacity of the TAB Battery is slightly greater on the fifth discharge than the first, and therefore does not deteriorate with the period of use for which the battery is needed.

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G & R SETS

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BALDWIN SPEAKERS

Neutron Crystals
Prompt shipments from Sydney.

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SYDNEY

Tel. BW 1328

8.13 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Cuddle Cuddie" (Howard).
"Underneath the Stars With You" (Stept).
"A Japanese Sunset" (Deppen).

8.25 p.m.—GLADYS LAMPE, Contralto:
"Oh Can You Sew Cushions?"
(Scott, arr. by J. K. Loss).

8.29 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Sweetie O' Mine" (O'Hagan).
"O What a Pal was Whoozie" (Kahn).
"At Sundown" (Dorndon).

8.38 p.m.—FRED WALKER, Baritone:
"In an Old Fashioned Town" (W. H.
Seure).

8.43 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Drifting and Dreaming" (Oral).
"Hi-Dee, Hi-Dee, Good-bye, Thursday, Hello
Friday" (Brown).
"Slippery Elm" (Senter).

8.53 p.m.—WARDE MORGAN, Tenor:
"Song of Creation" (Williams).

8.57 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"I Wonder How I Look When I'm Asleep"
(Henderson).
"A Lane in Spain" (Lewis).
"Forgotten" (O'Hagan).

9 p.m.—RUSSO AND BRADFORD, Operatic,
Vocalists:
"Luce" (Marie, Marie) (D. Capua).

9.11 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"If You See Sally" (Kahn).
"Let's Make Believe" (Haur).
"Blowin' Out Candles" (Davis).

9.25 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Why Should I Stay Fat Sorry?" (Conley).
"Suh's" (Kahn).
"Oh, Miss Hannah" (Deppen).

9.31 p.m.—A New Minute Chat on the National
War Memorials.

9.35 p.m.—GLADYS LAMPE, Contralto:
"Dimp the Bunn" (Scott).

9.40 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Where Do You Work, John" (Marks).
"Baby Mine" (Rupp).
"Ain't That a Grand and Glorious Feeling"
(Harker).

9.48 p.m.—FRED WALKER, Baritone:
"Coming Home" (Willeky).

9.53 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"I Always Knew I'd Find You" (Moran).
"Chinese Patrol" (Perry).
"There's a Trick in Pickin' a Chick, Chick,
Chicken" (Tobias).

10.3 p.m.—"Argus" News Service; Meteorological
Information; British Official Wire-
less; Sporting Notes by "Olympus." THE
ROYAL AUTOMOBILE CLUB OF VIC-
TORIA'S SAFETY MESSAGE FOR TO-
DAY IS FOR CHILDREN.
"Be sure to use your eyes and ears, and
think a little, too, and you will catch an
accident before it catches you."

10.18 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Days of Hearts and Flowers" (Tobani).
"Her Hair Went, Her Hair Gone, Her Hair
Left I All Alone" (Smith).
"Nay, Nay, Neighbor" (Costow).

10.25 p.m.—MARIE LAWTON, the girl with
the voice and the harp,
"Down Vauxhall Way."

10.32 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Sweet and Low Down" (Gershwin).
"Do We Dance" (Gershwin).
"In a Japanese Garden" (Nausebaum).

10.42 p.m.—WARDE MORGAN, Tenor:
Selected.

10.48 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Spring Fever," Piano Solo (Mart).
"Heaven Help a Sailor on a Night Like
This" (Hauglin).
"Side by Side" (Woods).

10.58 p.m.—RUSSO AND BRADFORD, Operatic
Vocalists:
Duet: "The World is Waiting for the Sun-
rise" (Seitz).

11.0 p.m.—OUR GREAT THOUGHT:

"I think the first Virtue is to restrain
the tongue; in unnumbered instances to the
soul who knows how to be silent even
though he is in the right." Cato.

11.1 p.m.—JOE ARONSON AND HIS SYM-
COPATING SYMPHONISTS:
"Mine" (Himley).
"The Whole World is Laughing at Me"
(Gardner).

"The Song of the Wanderer" (Moret).
"He's the Last Word" (Kahn).

"Go, Wash an Elephant if You Wanna do
Something Big" (Terker).

"Kentucky Lullaby" (Miller).
"I'm Tellin' the Birds" (Brown).

"Ukulele Dream Girl" (Low).
"Slow River" (Schwab).
"Cook a Doodle, I'm
(Johnson).

"For My Sweetheart" (Brown).
"A Song of Old Court" (Walker).
"Love is Just a Bit of Heaven" (Davis).

11.40 p.m.—GOD SAVE THE KING.

4QG, BRISBANE

Thursday

MIDDAY SESSION.

1 p.m.—Market reports; weather information;
"The Daily Mail" and "The Daily Standard"
news.

FROM THE CONSTITUTIONAL CLUB--

1.20 p.m.—A Lunch Hour address.

FROM THE OBSERVATORY--

1.58 p.m.—Standard time signal.

2 p.m.—Close down.

AFTERNOON SESSION.

3.30 p.m.—A programme of music by the
Studio Orchestra, including:
Overture: "The Gay Eagle" (Kretschner).
Valse: "Mione" (Myers).
Contralto Solo: Selected.
Miss Dorothy Brown.
Reverie: "Un Sonnet D'Amour" (Sardis).
Valse Chanson: "Chant D'Amour (Dandria).
Contralto Solo: Selected.
Miss Dorothy Brown.

Entr'acte: "Nebel" (Gruenwald).
Sextet: "Espannole" ("La Mamma" (Eilen-
berg).

March: "Our United Emblem" (Brown).

4 p.m.—A Cookery Talk by "Betty Simpson."

4.15 p.m.—"The Telegraph" news.

4.30 p.m.—Close down.

EARLY EVENING SESSION.

6 p.m.—"Daily Standard" news; announce-
ments.

6.30 p.m.—The Children's Session—Stories by
"The Sandman."

7 p.m.—Market reports; stock reports.

7.30 p.m.—Weather news; announcements.
"Daily Standard" news.

7.43 p.m.—Standard time signal.

7.45 p.m.—Leotriette: A Talk on Books, ar-
ranged by McLeod.

NIGHT SESSION.

SILKSTONE APOLLO CLUB.

8 p.m.—FROM THE STUDIO:

A programme by the Silkstone Apollo Club,
DANCE MUSIC.

9.50 p.m.—FROM THE CENTENNIAL HALL.
Dance Music.
FROM THE STUDIO—
10 p.m.—"The Daily Mail" news; weather
news. Close down.

Friday, Oct. 28

2FC, SYDNEY.

EARLY MORNING SESSION.—7 to 8 a.m.

MORNING SESSION.

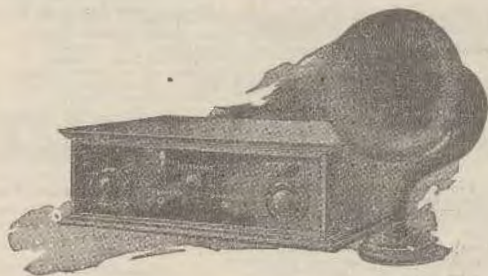
10 a.m.—"Big Ben" and announcements.
10.5 a.m.—Studio music.
10.15 a.m.—"Sydney Morning Herald" news
service.
10.30 a.m.—Studio music.
10.35 a.m.—A Reading.
10.45 a.m.—Studio music.
11 a.m.—"Big Ben."
Marching music for school children.
11.5 a.m.—A.P.A. and Reuter's Cable Services.
11.10 a.m.—Studio music.
11.15 a.m.—A talk on Home Cooking and Re-
cipes, by Miss Ruth Furst.
11.30 a.m.—Cricket Descriptions.
NOTE: At approx. 11.30 a.m.—from the
Sydney Cricket Ground a full description
of the Cricket Match, N.S.W. versus N.Z.
XI, which team has just returned from its
successful tour of the "Old Country."

MIDDAY SESSION.

12 noon—"Big Ben" and announcements.
12.2 p.m.—Stock Exchange, first call.
12.3 p.m.—Official weather forecast, rainfall.
12.5 p.m.—Studio music.
12.10 p.m.—Summary of "Sydney Morning
Herald" news services.
Rugby wireless news.
12.25 p.m.—Studio music.
12.30 p.m.—Marching music for school chil-
dren.
12.40 p.m.—Margot Leocant, soprano:
"Obstinatien" (Copper).
12.45 p.m.—The Oak Hall Instrumental Trio.
12.55 p.m.—Studio music.
1 p.m.—"Big Ben." Weather intelligence.
1.3 p.m.—"Evening News" midday news ser-
vice.
Producers' Distributing Society's Report.
1.20 p.m.—The Oak Hall Instrumental Trio.
1.23 p.m.—Stock Exchange, second call.
1.30 p.m.—Marching music for school children.
1.40 p.m.—Margot Leocant, soprano:
"I Love the Moon" (Rubens).
1.45 p.m.—Studio music.
1.50 p.m.—The Oak Hall Instrumental Trio.
2 p.m.—"Big Ben." Close down.

AFTERNOON SESSION.

3 p.m.—"Big Ben" and announcements.
3.3 p.m.—From the Sydney Cricket Ground:
A complete description of the Cricket Match:
N.S.W. versus the New Zealand "Eleven,"
which has just returned from its successful
tour of the "Old Country."
During cricket intervals the following musi-
cal items will be given:
3.30 p.m.—Marching music for the school chil-
dren.



"D.J. STANDARD 4"

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"D.J. Standard 4" is very popular. It is powerful enough to receive Interstate Broadcasting Stations at Loudspeaker strength and the two-dial control is easy to manipulate. The Set is designed and made by David Jones' experts, and is fully guaranteed. It is supplied complete with all accessories—speaker, accumulator, batteries, aerial equipment, everything ready to instal. Cash Price - - - - £25

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"D.J. Standard 4"	£25/-	£2/10/-	9/6
"D.J. Standard 5"	£30/-	£3/-	11/6
"D.J. Super-Six"	£45/-	£4/10/-	17/3

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Cabinet, Accumulator, Loud Speaker, Batteries, Valves, etc. £17/5/- extra

TOTAL PRICE £26/15/-

Installed Free.

SOMETHING GOOD!

SPECIAL SELECTIVE 3-VALVE SET.

In Cabinet £5/10/-

Loud Speaker, Valves, Batteries, Aerial, etc. £6/15/- extra

TOTAL PRICE £12/5/-

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You will be surprised to see how little it will cost.

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The Editor will be glad to consider Technical and Typical Articles of Interest to Australian Readers. All Manuscripts and Illustrations are sent at the author's risk, and although the greatest care will be taken to return unsuitable matter (if accompanied by stamp), the Editor cannot accept responsibility for its safe return.

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5.40 p.m.—From Farmer's Tea Rooms:
Frank Botham, baritone:
"Tommy Lad" (Monkton).
"Fare! Everyman" (Sanderson).
From Farmer's Tea Rooms at 4 p.m. and 4.40 p.m.:

Percia Butler, soprano:
(a) "Clara Min" (Russell).
(b) "Tiger June" (Carroll).
During cricket intervals from the Studio—
the following musical items:
Nesta McJarky, mezzo:
(a) "Ave Maria" (Cooper).
(b) "Rose in the Sun" (Forster).
W. Hovey, tenor:
(a) "Chuncheigh Fair" (Holiday).
(b) "Loving Smile of Sister Kirk" (Gounod).

4.45 p.m.—Stock Exchange, third call.

4.47 p.m.—Studio music, interspersed with Cricket results.

5 p.m.—"Big Ben." Close down.

EARLY EVENING SESSION.

5.40 p.m.—The Chimes of 2FC.

5.45 p.m.—The "Hello Man" talks to the children.

6.00 p.m.—Story time for the young folk.

6.40 p.m.—Studio music.

6.50 p.m.—Late sporting news.

7 p.m.—"Big Ben"

Dalgity's market reports (wool, wheat and stock).

7.4 p.m.—Fruit and vegetable markets.

7.10 p.m.—Weather and shipping news.

7.16 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.30 p.m.—Programme announcements.

7.35 p.m.—Cyril Monk, violinist.

7.45 p.m.—Ad. Cree, Scotch comedian:
"Scotch Burlesque" (Longstaffe).

7.50 p.m.—Mabel Butcher, soprano:

(a) "Abnegate" (Gowen).

(b) "One Spring Morning" (Nevin).

8 p.m.—"Big Ben."

A Theatrical Transmission.

9 p.m.—"Big Ben."

Cyril Monk, violinist.

10 p.m.—Mabel Butcher, soprano:

(a) "Far Away."

(b) "Sing me Me the Auld Scotch Songs."

9.17 p.m.—Ad. Cree, Scotch comedian:

(a) "Wire in my Lads" (Leigh).

(b) "Dandy Dress Ball" (Stair).

9.24 p.m.—From the Conservatorium Hall, Sydney:

Items from the 'Cello Recital, arranged by Mr. Gladstone Bell:

"Slow Movement; from Concerto in D" (Brahm).

Mr. Godric Ashton.

9.30 p.m.—"Prelude in D Minor" (Bach).

12 "Cello in Union with two Piano accompaniments.

9.45 p.m.—From the Studio:

Win and Wandle, English entertainers.

9.55 p.m.—Frank McEschern, baritone.

10.2 p.m.—Harrison White, banjo solo.

10.8 p.m.—Win and Wandle, English entertainers.

10.15 p.m.—Frank McEschern, baritone.

10.23 p.m.—Harrison White, banjo solo.

10.30 p.m.—Win and Wandle, English entertainers.

Late weather forecast.

10.34 p.m.—The 2FC Studio Dance Band will play until 11.30 p.m.

10.57 p.m.—Late news and announcements.

11 p.m.—"Big Ben." Dance music.

11.30 p.m.—National Anthem.

Close down.

3LO, MELBOURNE

Friday

MIDDAY SESSION.

12 noon—Melbourne Observatory Time Signal. Musical pieces received by the Australian Mines and Metals Association from the London Stock Exchange this day. British Official Wireless news from Rugby Review and The Australian Press Association cables. "Argus" news service.

12.20 p.m.—REGENT GRAND CONCERT ORCHESTRA. Conductor, Ernest Mitchell. By permission Boye Theatres, Ltd.—March, "El Cantan" (Sousa). Overture, "Lustspiel" (Kola-Hela).

12.32 p.m.—WARDE MORGAN, tenor: "In Town." "Britany."

12.39 p.m.—Stock Exchange information.

12.42 p.m.—REGENT GRAND CONCERT ORCHESTRA:

"An Autumn Song" (Wood).

"Bevete" (Mitschell).

Selection, "Madame Butterfly" (Puccini).

12.56 p.m.—SAXOPHONE SOLO, "Shafinar" (Nielsén).

(Solola, Jack Harney.)

1 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL. Time fixed. Why work it there mischief in the pig-market, unless thou couldst return to make mischief?

1.1 p.m.—FRED. WALKER, Baritone:

"Ah, Love but a Day" (H. Gilberte).

"I Passed by Your Window" (M. Brahe).

1.4 p.m.—Meteorological information.

Weather synopsis for Victoria, Tasmania, South Australia and New South Wales.

Ocean forecasts. River reports for Victoria, Tasmania, South Australia and New South Wales.

1.15 p.m.—REGENT GRAND CONCERT ORCHESTRA:

Foxtrot, "Sonny Boy" (Eist).

1.20 p.m.—MARE LAWTON, the girl with the voice and New South Wales.

"Mother, You Know the Story" (Mascagni).

"Walk Song from Tom Jones" (Gorman).

1.27 p.m.—REGENT GRAND CONCERT ORCHESTRA:

Piano solo, Miss C. Colstead.

1.30 p.m.—WARDE MORGAN, Tenor:

Selections from Repertoire.

1.35 p.m.—DESCRIPTION OF ASSOCIATED PUBLIC SCHOOLS COMBINED SPORTS MEETING, by Mr. Wallace Sharland, from the M.C.F.

MRS. M. CALLAWAY MAHOOD will speak on "The Art of Decoration."

1.40 p.m.—Presentation of OUP by HIS EXCELLENCY, LORD SOMERS, Governor of Victoria.

6.30 p.m.—"Herald" news service. Stock Exchange information.

EVENING SESSION.

6.30 p.m.—Answers to Letters and Birthdays Greetings by "BILLY BUNNY."

6 p.m.—STUDIO QUARTETTE:
"Children's Suite—Part I." (Debussy).

6.10 p.m.—MISS M. SHEPHERD has some strange stories to tell the children.

6.25 p.m.—STUDIO QUARTETTE:
"Children's Suite—Part 2" (Debussy).

6.30 p.m.—"BILLY BUNNY" will tell the Children about "The Adventures of the Treasure Seekers."

6.40 p.m.—"Herald" news service. Weather synopsis. Shipping movements.

6.47 p.m.—Stock Exchange information.

6.52 p.m.—Flesh Market reports by J. R. Bennett, Ltd. Rabbit prices.

6.55 p.m.—River reports.

6.58 p.m.—Newmarket Sheep sales by the Associated Stock and Station Agents, Bourke Street, Melbourne. Market reports by the Victorian Producers' Co-operative Co., Ltd. Poultry, Grain, Hay, Straw, Jute, Dairy Produce, Potatoes and Onions.

7.12 p.m.—Market reports of Fruit, Retail and Wholesale prices.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the Department of Agriculture, MR. C. FRENCH, Entomologist, will speak on—"Treatment of Wood Borers in Timber."

7.50 p.m.—COLLINGWOOD - CITIZENS'

BAND:
March, "The Lord Mayor."
Cornet Solo, "Australia." Soloist J. Robertson.

7.40 p.m.—FRED WALKER, Baritone:
"A Tanto Amor," from "Favorita" (Donizetti).
"Until" (W. Sanderson).

7.47 p.m.—MR. H. K. LOVE will speak on—"Types of Receivers for the Country."

7.57 p.m.—Under the auspices of the Health Association of Australia, the HEALTH MESSAGE for today is—
"Walk a mile for—well, just for the walk."

7.55 p.m.—COLLINGWOOD CITIZENS'

BAND:
Waltz, "Chagrin d'Amour."
Fox-trot, "Ain't She Sweet?"

8.2 p.m.—GLADYS LAMPE, Contralto:
"Cecilia's Home" (Beethoven).
"Sunday" (Brahms).

8.16 p.m.—MR. C. J. WILLIAMS will speak on tomorrow's Stadium event.

8.25 p.m.—COLLINGWOOD CITIZENS'

BAND:
Selection, "Scenes of Beauty."

8.35 p.m.—MARIE LAWTON, the girl with the voice and the lark.
"Ave Maria Intenero" (Mascagni).
"Spring's Awakening" (Sooderson).

8.42 p.m.—FRENCH BROS., Banjoists:
"Sam the Accordion Man."
"Hawaiian Melodies."

8.50 p.m.—WARDE MORGAN, Tenor (by permission of J. C. Williamson Ltd.):
Selected.

8.55 p.m.—Announcements. THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for To-day is for EVERYBODY—

"Nearly all accidents are common accidents—the kind that happen time after time. If nearly all accidents are common, the reasons for them are common."

9 p.m.—COLLINGWOOD CITIZENS' BAND:
March, "Heroes of the Flag."
Overture, "Victorian Cross."

9.7 p.m.—RUSSO AND BRADFORD, Operatic Vocalists:
Duet, "What is done"—Lilas Dumche (Charles Curviller).
Lynda Bradford, "Provence" (Gerald Carne).
Duet, "Carmela"—Neapolitan Melody (C. E. De Curtis).

9.15 p.m.—MARIE LAWTON:
"Ye Banks and Braes."
"Angus Macdonald."

9.24 p.m.—"CARDIGAN" (Mr. H. A. Wolfe, sporting editor of the "Argos" and "Australasian"), will speak on tomorrow's races.

9.35 p.m.—COLLINGWOOD CITIZENS'

BAND:
March, "Handel Awakes."

9.46 p.m.—FRED WALKER, Baritone:
"Harlequin" (W. Sanderson).
"Fleurette" (D. McGeoch).

9.47 p.m.—FRENCH BROS., Banjoists:
"Hoolulu."
"Lindy Lou."

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- 9.54 p.m.—GLADYS LAMPE, Contralto
 "The Old Man" (Wells).
 "My Ships" (Barratt).
 10 p.m.—COLLINGWOOD CITIZENS' BAND:
 Intermezzo, "The Dream Girl."
 "A Japanese Dance."
 10.10 p.m.—"Argus" News Service. Road
 notes supplied by the Royal Automobile
 Club of Victoria. Meteorological informa-
 tion.
 10.20 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "I Wonder Who's With You" (Dixon).
 "This is June" (Leonard).
 "What Does it Matter" (Berlin).
 10.30 p.m.—WARDE MORGAN, Tenor
 Selected.
 10.37 p.m.—COLLINGWOOD CITIZENS'
 BAND:
 "Frisole and Maurica from Copella."
 10.47 p.m.—Announcements
 10.50 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "The Prisoner's Bride" (Mathies).
 "Everything is Made for Love" (Johnson).
 "I Didn't Know" (Swift).
 11 p.m.—OUR GREAT THOUGHT:
 "Better build schoolrooms for the boy than
 cells and gibbets for the man."
 11.1 p.m.—JOE ARONSON AND HIS SYN-
 COPATING SYMPHONISTS:
 "Upright and Grand"—Piano Solo (Blom).
 "Muddy Water" (De-Rose).
 "Where the Love Bird Leaves the Nest"
 (Wade).
 "By the Old Red Mill" (David).
 "I'm on My Way Home" (Berlin).
 "Looking for a Boy" (Gershwin).
 "That Certain Feeling" (Gershwin).
 "I Won't Go Home To-night" (Gilbert).
 "Pleading" (Kron).
 "Chinese Moon" (Nausbaum).
 "She Don't Wanna" (Yellen).
 "Because I Love You" (Berlin).
 "For My Sweetheart" (Brown).
 "Barbara" (Singer).
 "One Night in Love in Suda.".
 "Brown Eyes in Your Dreams" (Tennent).
 "Hello, Kinehimi" (Friend).
 "I've Got Somebody Now" (Williams).
 "You Know I Love You" (Morse).
 11.49 p.m.—GOD SAVE THE KING.

Saturday, Oct. 29
 2FC, SYDNEY.

EARLY MORNING SESSION.

7 a.m. to 8 a.m.

MORNING SESSION.

- 10 a.m.—"Big Ben" and programme an-
 nouncements.
 10.5 a.m.—Studio music.
 10.15 a.m.—"Sydney Morning Herald" news
 service.
 10.30 a.m.—Studio music.
 10.35 a.m.—A talk by the 2FC racing com-
 missioner.
 10.45 a.m.—Studio music.
 11 a.m.—"Big Ben." Studio music.
 11.5 a.m.—A.P.A. and Reuter's cable ar-
 rives.
 11.10 a.m.—Studio music.
 11.15 a.m.—A talk on Gardening, by Mr. C.
 J. Lockley ("Redrum").
 11.30 a.m.—Close down.

MIDDAY AND AFTERNOON SESSIONS.

- 12 noon—"Big Ben" and programme an-
 nouncements.
 Note.—From the Sydney Cricket Ground:
 A full description of the cricket match,
 New Zealand versus N.S.W.
 12.5 p.m.—Stock Exchange, first call.
 12.5 p.m.—Studio music.
 12.30 p.m.—"Sydney Morning Herald" news
 service.

12.32 p.m.—Rugby wireless news.

12.35 p.m.—Studio music.

Note.—During the afternoon (by courtesy of S.L.O. Melbourne), station 2FC will relay a description of the V.K.C. Derby in the running.

1 p.m.—"Big Ben." Weather Intelligence.

1.3 p.m.—"Evening News" midday news service.

1.30 p.m.—Studio music.

Note.—Race results from Moorefield will be given as received.

During cricket and race intervals, musical items will be given from the studio, including Tom Foggitt, novelty pianist.

4.30 p.m.—A complete resume of the day's sporting events.

5 p.m.—"Big Ben."

Close down.

EARLY EVENING SESSION.

5.40 p.m.—The chimes of 2FC.

5.45 p.m.—The "Hello Man" talks to the children.

5.50 p.m.—Story time for the young folk.

5.49 p.m.—Studio music.

7 p.m.—"Big Ben." Weather Intelligence.

7.5 p.m.—"Evening News" late news service.

NIGHT SESSION.

7.55 p.m.—Programme announcements.

7.57 p.m.—Wally Baynes, comedian.

7.45 p.m.—Studio items.

7.50 p.m.—Elsie Peckless, soprano:

"Beauty Sleep" (Arditti).

"The Flutes of Arcady" (James).

8 p.m.—"Big Ben." From the Crystal Palace Theatre, Sydney: Orchestral music and prologue to "The Seventh Heaven." Conductor, Mr. Harry Stone.

8.50 p.m.—Descriptions from the Speedway Royal.

8.57 p.m.—From the Studio: St. Quintin Downer, pianoforte solo:

"First Movement Sonata Pathetique" (Beeethoven), (by special request).

8.45 p.m.—Elsie Peckless, soprano:

"The Nightingale's Trill" (Giani).

"Bird songs at Eventide" (Coates).

8.53 p.m.—Charles Lawrence, entertainer:

"Thophaia."

9 p.m.—"Big Ben." Late weather forecast.

9.1 p.m.—St. Quintin Downer, pianoforte solo:

"Tango" (Albanis).

"O, Star of Eve" ("Tannhauser") (Wagner).

9.18 p.m.—The Radio "Revelers," introduced by Mr. Laurence Halbert:

Opening Chorus.

9.15 p.m.—A sketch.

9.22 p.m.—Shirley Cooke and Harry Whyte in piano and vocal novelties.

9.25 p.m.—Charles Lawrence, entertainer:

"Public Conversations."

9.35 p.m.—From the Speedway Royal: Further descriptions and results.

9.42 p.m.—From the Studio: Laurence Halbert, baritone.

9.45 p.m.—A Revel and final chorus.

9.52 p.m.—Shirley Cooke, soubrette.

9.55 p.m.—From the Speedway Royal: Further descriptions of the racing.

10 p.m.—"Big Ben." From the Studio: Wally Baynes, comedian.

10.5 p.m.—Len Maurice, popular baritone.

10.12 p.m.—Harry Whyte, novelty pianist.

10.25 p.m.—Final results from the Speedway Royal.

10.50 p.m.—From the Crystal Palace Theatre, Sydney:

Orchestral items.

10.25 p.m.—From the Studio: Wally Baynes, comedian.

10.32 p.m.—Len Maurice, popular baritone.

10.35 p.m.—The 2FC Studio Dance Band.

10.45 p.m.—Len Maurice, baritone.

10.50 p.m.—The 2FC Dance Band.

10.57 p.m.—Late news and announcements.

11 p.m.—"Big Ben." The 2FC Dance Band will play until 11.45 p.m.

11.45 p.m.—National Anthem.

Close down.



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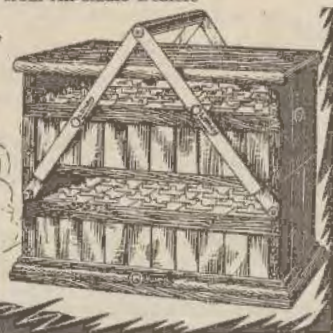
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3LO, MELBOURNE.

Saturday.

MORNING SESSION.

- 11 a.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"The Top Town Parade" (Morale).
"Just Once Again" (Ash).
"Routing Down to Rio" (Rino).
- 11.10 a.m.—GLADYS LAMPE, contralto:
"Early Morning" (Peel).
"Tip-Too" (Molly Currow).
- 11.17 a.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"When Lights Are Low in Cairo" (Meckis).
"Wenatch Venetian Skies" (Lewis).
"Yah Goona Be Home To-night" (Drubin).
- 11.27 a.m.—FRED WALKER, baritone:
"Inter Nos" (A. Macfarren).
"Vale" (K. Russell).
- 11.37 a.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"I'm Tellin' the Birds, Tellin' the Bees" (Brown).
"The Spell of the Moon" (Kahn).
"So-Lu-Te" (Kahn).
- 11.47 a.m.—MARIE LAWTON, the girl with the voice and the harp:
"Oh, Lovely Night."
"Medley of Modern Successes."
- 11.54 a.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"The Hanging Gardens of Babylon" (Carlo).
"Collette" (Kahn).
"Honiolo Moon" (Lawrence).
- 12 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL. Metal prices received by the Australian Mines and Metals Association, from the London Stock Exchange this day. British official wireless news from Rugby. Reuter's and the Australian Press Association cables. Across free service.

- 12.20 p.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"Rhythm is the Thing" (Raita).
"Golden Gate" (Leslie).
"Zik-Zak" piano solo (Blomm).
- 12.30 p.m.—RUSSO AND BRADFOR, Operatic vocalists:
Stefano Russo, "Calf of Gold" from Faust (Gounod).
Duet, "Home to Our Mountains" from Il Trovatore (Verdi).
Duet, "I Want You Beside Me" (Amateo).
- 12.40 p.m.—Stock Exchange information.
- 12.45 p.m.—YASMA TIERNAN, 'cello:
"Orientale" (Gull).
- 12.50 p.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"Who-oo? You-oo, That's Who" (Olger).
"Stopping in Society" (Aisk).
"She's Got It" (Davis).
- 1 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL. One of the Clock. What have you forgotten—what left undone? That promise made—that duty to perform—DO IT NOW.
- 1.1 p.m.—Description of Maiden Plate, one mile, V.R.C. Flemington, by "Musket" of The Sporting Globe.
- 1.5 p.m.—GLADYS LAMPE, contralto:
"O Sunny Beam" (Schumann).
"Hedge Ross" (Schumann).
- 1.15 p.m.—Meteorological information. Shipping information. Weather forecast for Victoria, Tasmania, South Australia, and New South Wales. Ocean forecast. River reports. Rainfall for Victoria, Tasmania, South Australia, and New South Wales.
- 1.20 p.m.—STUDIO QUARTET:
Selection, "Lilac Time."
- 1.27 p.m.—FRED WALKER, baritone:
"In an Old Fashioned Town" (W. H. Squire).
"I Will Await Thee" (R. C. Clarke).

- 1.34 p.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"Love is Just a Little Bit of Heaven" (Bygan).
"Loveless a Trick in Pickin' a Chick, Chick, Chicken" (Thomas).
"Gitty Words, Crazy Tune" (Yellow).
- 1.40 p.m.—Description of Marlborough Plate, 6 fur, V.R.C. Flemington, by "Musket" of The Sporting Globe.
- 1.45 p.m.—MARIE LAWTON:
"It's Only a Ruby Garden" (Wood).
"For You Alone" (Geeha).
- 1.53 p.m.—JOE ARONSON AND HIS SYMPOHONISTS:
"Ain't She Sweet" (Vellen).
"Rosa Lee" (Ash).
"Dawn of Tomorrow" (Green).
- 2 p.m.—Close down.
- 2.5 p.m.—Description by Mr. Rod McGregor of cricket match between South Melbourne and Northcote, at South Melbourne.
- 2.15 p.m.—Close down.
- 2.40 p.m.—Description of Melbourne Stakes, 1 1/4 miles, V.R.C. Flemington, by "Musket" of The Sporting Globe.
- 2.45 p.m.—Close down.

AFTERNOON SESSION.

- 3 p.m.—MELBOURNE OBSERVATORY TIME SIGNAL. "Nothing against time's scythe can make defence. Save breed, to brave him when he takes thee hence."
- 3.1 p.m.—MARRY SHUGG'S STUDIO BAND:
Selection, "Carmen" (Bizet).
Waltz, "Long D'Aukmanne."
March, "St. Kilda."
- 3.20 p.m.—Description by Mr. Rod McGregor of cricket match between South Melbourne and Northcote at South Melbourne.
- 3.40 p.m.—Description of Victoria Derby, 1 1/4 miles, V.R.C. Flemington, by "Musket" of The Sporting Globe.
- 3.45 p.m.—MARRY SHUGG'S STUDIO BAND:
Fandango, "In Sunny Lands" (Laurent).
Idyll, "My Syrian Maid" (Rimmer).
- 3.50 p.m.—Description by Mr. Rod McGregor of cricket match between South Melbourne and Northcote at South Melbourne.
- 4 p.m.—MARRY SHUGG'S STUDIO BAND:
March, "The Middy" (Alford).
- 4.15 p.m.—Description by Mr. Rod McGregor of cricket match between South Melbourne and Northcote at South Melbourne.
- 4.50 p.m.—Description of Cantala Stakes, one mile, V.R.C. Flemington, by "Musket" of The Sporting Globe.
- 4.55 p.m.—MARRY SHUGG'S STUDIO BAND:
Selected.
- 4.45 p.m.—Description by Mr. Rod McGregor of cricket match between South Melbourne and Northcote at South Melbourne.
- 4.50 p.m.—MARRY SHUGG'S STUDIO BAND:
Selected.
- 5 p.m.—Description of Hotham Handicap, 1 1/2 miles, V.R.C. Flemington, by "Musket" of The Sporting Globe.
- 5.5 p.m.—Close down.

EVENING SESSION.

- 5.30 p.m.—Sporting results.
- 5.40 p.m.—Answers to letters and birthday greetings by "LITTLE MISS KOOKABURRA."
- 6.10 p.m.—STUDIO QUARTET:
"Parade of the Tin Soldiers."
- 6.20 p.m.—LITTLE MISS KOOKABURRA—Story for the Tiny Tots.
"The Gollywog."
And for the older ones there is a new serial guide story:
"The Plucky Patrol." Today you shall hear "The Call of the Camp."
- 6.35 p.m.—STUDIO QUARTET:
"The Spinner Dance."
- 6.40 p.m.—Herald news service. Weather reports. Shipping movements.
- 6.42 p.m.—Stock Exchange information.
- 6.47 p.m.—Market reports.
- 6.50 p.m.—River reports.
- 6.52 p.m.—Newmarket sheep sales by the Associated Stock and Station Agents, Bourke-st., Melbourne. Market reports by the Victorian Producers' Co. Ltd., poultry, grain, straw, fute, dairy produce, potatoes and onions.

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7.10 p.m.—Market reports of fruit by the Victorian Fruitgrowers' Association; Retail prices. Wholesale prices.

NIGHT SESSION.

7.15 p.m.—Under the auspices of the ROYAL LIFE SAVING SOCIETY (Victoria), Head Centre. MR. J. G. NEWBY will speak on "Swimming as a Preparation for Life Saving."

7.30 p.m.—MR. F. CHAPMAN, National Museum, "Plants of the Coral Reefs."

8.45 p.m.—MR. E. F. LAMPE, The History of Timekeepers. The Time Candles. The Great Clock of Rouen.

9 p.m.—THE ROYAL AUTOMOBILE CLUB OF VICTORIA'S SAFETY MESSAGE for today is for MOTORISTS.

"Metal safeguards are often foolproof, but mental safeguards have them beaten to a frazzle."

8.1 p.m.—KENSINGTON DISTRICT BAND. Intermezzo "White Lilies" (Graham).

8.19 p.m.—RUSSO and BRADFORD, operatic vocalists. Duet, "Garden of Happiness."

Lydia Bradford, "Softly Awaken My Heart," from Sanson and Delilah; (Saint Simeon). Duet, "Dite Alla Giovane," from La Traviata (Verdi).

8.20 p.m.—KENSINGTON DISTRICT BAND. March, "Maidens" (Greenwood).

8.27 p.m.—MELBOURNE CHORAL UNION. Madrigal, "The Silver Swan."

Part Song, "Come to the Fair" (Martin). 8.34 p.m.—KENSINGTON DISTRICT BAND. March, "The Old Regiment" (G. Thomas).

8.40 p.m.—MELBOURNE CHORAL UNION. Madrigal, "You stole My Love."

Chorus, "Tally-Ho."

8.47 p.m.—A special programme has been arranged.

10.15 p.m.—KENSINGTON DISTRICT BAND. Fantasia, "Golden Valley" (Hawkins).

Under the auspices of the Health Association of Australasia, the HEALTH MESSAGE for today is:

"That nation with the best human stock and largest store of health will win the world's prizes."

10.50 p.m.—GLADYS LAMPE, contralto: Had I Now What Most I wished for" (Bach).

"Ombra Mai Fu" (Handel).

10.27 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"When Will We Meet Again" (Fiorio). "Jack in the Box" (Nichol). "Shallimar" (Nichol).

10.45 p.m.—Late sporting results.

11 p.m.—OUR GREAT THOUGHT: "A man's best things are nearest him. He close about his feet." (Lord Haughton).

11.1 p.m.—JOE ARONSON AND HIS SYNCO-SYMPHONISTS:

"Marie Marie" (Brown). "Just a Hole in Old Killarney" (Swan). "Julius, You Wonderful Boy" (Meyer). "I'm Going to Dance with the Guy Who Brung Me" (O'Keefe).

"I Ain't Got Nobody and Nobody Cares for Me" (Graham). "The Little White House in Honeycomb Lane" (Dowling).

"I Love the College Girls" (Jaffe). "Chickama" (Lange).

"That Waltz of Yesterday" (Curtis). "Take Your Finger Out of Your Mouth" (Ellen).

"Honolulu Song Bird" (Leslie). "She Knows Her Onions" (Culow).

11.49 p.m.—GOD SAVE THE KING.

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W.F.H. (BA. FL1)—Seemingly your gadget is defective, as it should register a very gradual reading all the way round.

H.W. (MUSWELLBROOKE)—This will be published shortly.

S.M. (BATHURST)—You are asking too much from a two valve set. See "RADIO" for October for a three-valve receiver.

E.B. (ROZELLE)—Yes.

H.S. (HURSTVILLE)—You should certainly get much more than this. Try the secondary of the five to six transformer of the choice.

W.N. (CONDOBOLIN)—Use three 150 turn honeycomb coils for this station only.

R.W.S. (MOSMAN)—The diameter of the coil should be two inches for the secondary, and it should be wound with 90 turns of No. 30 D.S.C. wire, spaced forty turns to the inch. The primary consisting of thirty turns of D.S.C. wire, should be wound on a 1½ inch diameter former fitted inside the secondary. On this name former should be wound the section coil consisting of 25 turns of the same gauge wire. This should be wound below the primary.

H.P.L. (CHARLES TOWERS, Q.) Obtain the Citizens Radio Amateur Call Book. The address of the publisher is 504 South Dearborn St., Chicago, Ill., U.S.A. This gives the Q.R.A.'s.

L.C. (RANDWICK)—Build the Kite.

A.J.S. (TAMWORTH)—Probably the arrangement of the middle transformer is not correct. Examine this transformer carefully to see that there is no broken connection in either of the circuits.

E.B. (ROZELLE)—I would rather see you build a five-valve neodyne or a neodyne for consistent inter-State results on the loud speaker. Take my advice and do this.

F.W. (BELMORE)—This is probably one of the trawlers. A list of the call letters and wave lengths will be published in "W.W." very shortly.

A.C.A. (LIDCOMBE)—This receiver was described in "W.W." of the 1st July.

A.L. (BRISBANE)—All the materials you specify are quite correct and perfectly suitable. Use the tubing you have on hand.

R.H. (DUBBO)—Your three-valve set should give you good reception even where you are, but why not make certain by constructing a good five-valve receiver. You will then have plenty of reserve power to overcome the static trouble which will be present during the summer. This is the best advice that I can give you.

J.K. (MILLER'S POINT)—Use either.

J.F.R. (JERILDERRIE)—You are getting very good results as it is, and it is hardly worth while bothering about one or two other long wave stations which may be heard.

A.M. (MARRICKVILLE)—Connect up the grid bias. Join the two F terminals of the audio transformers together and connect the negative terminal of the C battery to this wire. Complete the circuit by joining the positive terminal of the C battery to the A negative. Your transformers are quite all right.

D.I.N.A.—There are none so blind that will not see.

T.R. (BRIGHTON)—See "RADIO" for October.

F.K. (BALLINA)—Your circuit is quite all right, but locate the positive and the negative lead of the mains by immersing both in a glass of water. The negative will bubble, much more so than the positive. Use two 60

QUERIES

Will readers kindly note that all technical queries are answered through the columns of Wireless Weekly. There is no occasion to send either stamps or addressed envelopes. The only condition is that the number of questions be limited to four. We unfortunately cannot deal with technical queries by telephone or by personal callers.

watt metal filament lamps. Divide watts into volts and you will get the charging rate.

"SOLODYNE" (HAY)—All the valves you specify are suitable, provided their impedances are correct.

E.B. (MACLEAN)—This is a factor peculiar to all reflex receivers.

E.E.A. (CESSNOCK)—Install a Maclean Tube Purifier.

G.L.N. (HOMEBUSH)—It certainly is a loose connection somewhere in the detector stage.

W.O.C. (SANS-SOUCI)—This subject will be dealt with at length very shortly.

J.S. (PADDINGTON)—See "RADIO" for October.

S.I.S. (PETERSHAM)—Your valves are quite all right. So is the Ronetone coil. **J.M. (GHATWOOD)**—I am sorry to hear of your poor results with the Extraordinary One-Valve Receiver, but I must say that the original set performed as was claimed for it, and this has been borne out by many readers of the paper who have written by expressing appreciation. Therefore, don't be hurt at me suggesting that there is something not quite correct in your receiver. Any "Wireless Expert" worth his salt should be able to make a One-Valve Receiver function satisfactorily.

S.M. (MARRICKVILLE)—This is indeed strange in some respects. I happen to live in the same street as yourself, practically right opposite, and don't experience this trouble.

W.G. (RICHMOND, QLD.)—Use an aerial net exceeding 80 feet over all for best results.

G.H. (ROSEVILLE)—Use the D.C.C. wire and the smaller honeycomb coil.

A.G.S. (KENSINGTON)—Install a loosely coupled aerial and don't earth your batteries.

A.R. (GLEBE)—The paper has been forwarded. Remove half the fixed and moving plates.

R.N. (STANMORE)—I am afraid not.

G.F.J. (NEWCASTLE)—You have an open circuit in two places—one in the grid return

of the last valve, and the other by not joining the negative A battery to the negative B battery.

E.E. (CONCORD)—Mr. Chifos Storm, 51 Castlereagh St., Sydney.

P.H.B. (SINGLETON)—Evidently you have not purchased large capacity B batteries. Next time install either Burgess or Voltun Large capacities, or Ever Ready Large Capacity B batteries. Incidentally, it is worth while installing a C battery. See previous answers to queries on how to do this.

SALES BOOSTERS.

According to the Managing Director of a very large British Company, business turnover rises mainly upon the amount and quality of advertising. He asserted also that he would guarantee double the results if he had double the advertising appropriation.

Harringtons Ltd. also apparently believe this is true, judging by a batch of sales and other literature produced by this Company, which has been sent to us for review. "Harringtons 1927/1928 Radio Catalogue," a volume of 56 pages, properly indexed; should be in every Radio enthusiast's hands, because it features practically all types of Radio apparatus. It is a ready guide to any part which the home constructor might desire, and for others there are featured many types of attractive receivers, loud speakers, battery eliminators, etc.

Another attractive pamphlet printed in three colors features the Elec-Tru-Tone, trickle chargers, Amplion Loud Speakers, etc.

Of particular interest is a large yellow sheet overprinted in black featuring various advertisements which have been inserted in the press from time to time by Harringtons. This is a specialised form of advertising, since its primary object is to attract prospective dealers to Harringtons banner. This is unique in design and execution, and by its very unorthodox presentation, cannot fail to attract attention.

Literature such as this must certainly achieve the result for which it is designed, that is, bigger business turnover.

MR. MOSTYN BROWN, of 5CL, is another artist who will soon be known as one of the stars of the ether. He is a young violinist with a delightful touch which produces wonderful tone. His classical interpretations of the great masters will prove a revelation to the average listener, his technique is flawless, and his perfect mastery of the bow must ultimately carry him to great heights in the musical world.

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