

PUBLISHED WEEKLY

THE RADIO RECORD

AND

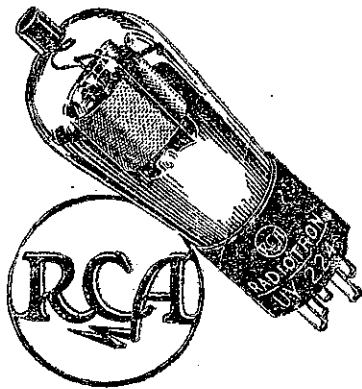
ELECTRIC HOME JOURNAL

Vol. IV., No. 12.

WELLINGTON, FRIDAY, OCTOBER 3, 1930.

Price, 3d.

The Stations are there--- GET THEM !



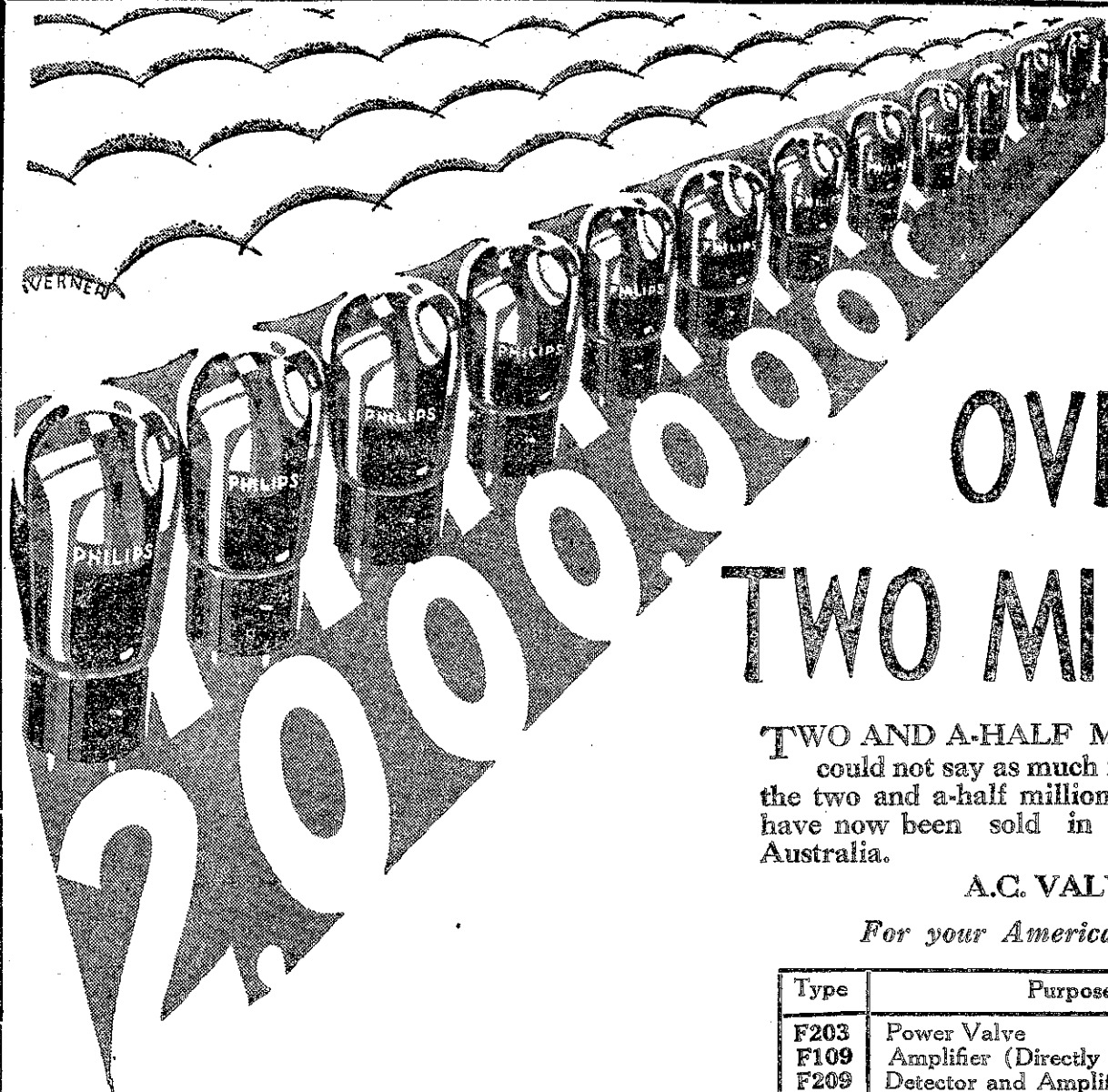
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RADIOTRON

For Better Radio Reception

Amalgamated Wireless
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OVER TWO MILLION

TWO AND A-HALF MILLION WORDS
could not say as much for Philips Valves as
the two and a-half million "Miniwatts" which
have now been sold in New Zealand and
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A.C. VALVES

For your American-made Set.

Type	Purpose	Price
F203	Power Valve	28/6
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1560	Full Wave Rectifier	25/-
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W23R



ER'S Wally? 'E should 'ave bin 'ere at one o'clock to make this 'ere talkie," I heard in the best W.B. vernacular on arriving at the new studios of Filmcraft in Miramar on Saturday afternoon to see the first studio talkie made in N.Z. Of course W.B. doesn't always talk like that, but he was just training for this talkie he was going to make.

Wally was missing, and the boys were quite in a way about it. The camera man busy erecting his camera in the open air, and sensing something was wrong I asked, "But where is the studio?"

"There," said Mr. Biere, who was controlling the camera, pointing to a brick wall that was covered with a futuristically coloured canvas, and in front of which was a piano and other studio fittings. Then it dawned upon me that this was open-air photography, to obviate the necessity of artificial lighting. While W.B. and the Three Melody Boys were looking out for Wally I took the opportunity to examine more closely the workings of the many black suitcases around me.

"Where are the glass boxes to shield the camera from the microphone?" I asked, as I understood that talkies had to be made in soundproof buildings with the cameras in glass cases, so that the very sensitive microphone would not pick up extraneous noise and the purr of the motors.

"We have gone a little past that stage," explained Mr. Biere, "the electric motor is housed in a soundproof box and hung in sponge rubber. We no longer turn handles or anything like that. The motor is connected to an accumulator in that box over there and joined to the camera by a cable."

YOU don't use power from the mains, then?" I queried.

"No. For outside work we must have our own power, and so have to be self-supporting. Besides, batteries are needed for the amplifiers."

That was news to me, and I was just about to ask why this power could not be drawn from the mains when they were at hand, when W.B. came on the scene again. There was no Wally, and Mr. Biere was just threading the film through the mechanism which enabled both pictures intermittently and sound continuously to be recorded on the same film.

"Car just cum in and no Wally!"

"And there won't be for another half an hour," I ventured, not knowing too much about the Miramar car service.

"If that's the case you will have to take Wally's place," said Uncle Billy addressing himself to me.

"But—" I stammered, for I had never sung a note in my life, and am not likely to. My excuses were cut short. The imperturbable Wally, as though nothing had happened, came on the scene.

"Hullo, boys. Rotten service they have out this way. Had to take a taxi or there would have been no talkie for me. Right oh, Bill.

Mike Listens and Lens Blinks

WILL BISHOP and the Melody Four of 2YA Eight O'Clock Revue fame have made a talkie—the first studio sound picture to be made in New Zealand. And this was done because so many admirers had wanted to see the very famous quintet. To the microphone and camera they have sung their best-liked numbers, and within a few weeks they will be able to be seen and heard



MR. WILL BISHOP.

on the sound screen at the principal theatres in New Zealand. They have been assisted by Signor A. P. Truda's orchestra, who play for the titles, and both combinations can be seen and heard in the space of a very few moments. Both combinations have proved popular with 2YA listeners, and this new departure must find favour with listeners.

about; lens of different types were arranged on a turret over the regular lens, so that any desired size of objects could be secured. There was one lens that could take a close-up at 100 yards. "You see, Mr. Bishop, things have altered during the last few years."

At this stage my attention was attracted to another box which had just been opened. I was very interested in this, for there were three efficient-looking meters, the pointers of which took up their respective places when a switch was turned by the gentleman responsible for the sound recordings, Mr. McLean. There is something about meters that always demands my attention, and my first task on seeing them is to find out what they all mean. The one on the left was easy. It was marked "Volts D.C." and the pointer showed five. Of course that had to be multiplied by something, probably ten, I thought, as this was a portable outfit. I suggested that to Mr. McLean, and after he had removed two huge rubber-cupped phones from his ears and asked me to repeat my question, laughed, and said that there were 500 volts, all battery supplied. "There must be no sign of a ripple, for, although it may not be perceptible to the ear, it will become evident when it is recorded on the film. So we provide batteries," he added, lifting the lid from the battery box and revealing a collection of some twelve 40-volt batteries of a make well-known to radio enthusiasts. All this time W.B. was rehearsing at the piano, and keeping in time with his voice was a small needle in the second meter on the amplifier box. Mr. McLean was watching this very closely, and giving instructions for the microphone to be moved.

I'll be with you in a few moments," and he disappeared into the dressing-room.

Everything being in order, W.B. started talking about fades, close-ups, angles, and many other things about which I knew very little. But he seemed to know a great deal about the game. Afterward I learned that he had spent many years in an English picture concern, but before the days of the talkies. All this time Mr. Biere was peering through a little finder that showed the scene as it was going to be filmed, and adjusting his camera accordingly.

"Hi! I want the camera closer," called out W.B.

"You are getting a close-up now," rejoined Mr. Biere, and then he explained that now cameras were not moved

A Story

which tells
how a

Popular

BROADCAST COMBINATION

made
their first

TALKIE

Related by
C.W.S.

IT was all very fascinating. There was Mr. Will Bishop singing a ditty about girls who were crazy over him, the sounds being picked up by the ultra-sensitive microphone (which, by the way, is made in Wellington and is better than an imported one), being turned into electrical vibrations, amplified by a stage in the microphone housing, and passed to the main amplifier. Being strengthened, these vibrations were going through the meter which showed how the sound looked in electricity. From here they were going to the cell that had made the talkies possible. (Concluded on page 3.)

Radio Advertising Mars Enjoyment

Opinion of Dr. Lee de Forest

A VIGOROUS plea to protect broadcasting from advertising and to put most of the advertising back in the newspapers was the outstanding message in the address of welcome given by Dr. Lee de Forest to the Institute of Radio Engineers at the opening of their convention in Toronto, Ontario, says the "Christian Science Monitor." He also forecast that wired radio, coming to the homes without advertising, lies directly ahead.

Since the institute is an engineering organisation, Dr. de Forest said many engineers have taken the attitude of "sticking to their knitting" and confining themselves to the engineering end of the business. With this view he expressed scant patience. He continued, in part:—

"We have invented and caused to grow up not merely a marvellous electrical device to lighten man's labour, like electric power, or to lengthen his waking hours by electric light—we have found something finer, more powerful—farther reaching than all these—dealing intimately with every phase and age and strata of home and family and society.

Warning to Industry.

"IN my inaugural address last January I sought to point out a very real danger to the fullest usefulness and enjoyment which radio has power

to confer, a menace steadily growing greater, more ruthless, more deserving of suspicion and more generally detested—the use of the broadcast for direct and blatant advertising—in larger and longer doses. Subsequent observation and active inquiry has convinced me that the warning to the radio industry then sounded has been justified.

"If we consider the prosperity of the industry alone, the possibly lessened sales of sets, the unquestionably lessened hours of listening by the public resulting from this abuse by direct advertising—we engineers, dependent on radio for our livelihood, have ample ground for emphatic protest. But there are higher, less selfish considerations, the thought that short-sighted avarice is at work to curtail the usefulness, the beneficence of radio, in the home, in the school, as a means of entertainment, of education, of uplift generally.

Unless this is prevented we are headed straight for Government regulation, with taxation, possibly censorship, and all the evils and all the benefits of Government control.

Progress in Radiocasting.

"UNLESS the present deplorable conditions are remedied, they will rapidly hasten the entry of wired radio into our homes—entertainment freed from interference, static, fading and purged of all advertising.

"This year of our first international convention coincides with the gratifying progress made in international radiocasting, and calls attention of engineers the world over to the manifold problems of short-wave communication yet to be solved. Multiple receiving antennae, a common receiver and automatic volume-control, possibly com-

Boys' Institute Band

A Sterling Combination

THE history of the Boys' Institute Band reveals remarkable progress. In 1914 the committee of the institute

combined with double polarised transmitted waves, of greater power, will shortly bring to pass the nightly exchange of foreign programmes.

"We have already the international language, music, and we shall learn much to our advantage from many foreign programmes. Then indeed will be realised the benign power of the radio broadcast to draw together into a common fellowship of understanding the varied peoples of the earth, strangers and enemies no longer."

After discussing the Press and radio, Dr. de Forest concluded this phase of his address as follows:—

"Radio's debt to the newspaper, for daily programme notices, programme reviews, and for their generous radio sections, is beyond all computation. Unquestionably it was this astonishing interest on the part of the Press in broadcasting during its early struggling days, ten years ago, which alone enabled it to survive those crucial years, until an awakened popular interest made radio self-supporting.

"I sincerely feel, therefore, that the debt to-day lies heavily on radio's side of the ledger—a debt which will be partially repaid only when certain forms of advertising most obviously ill-suited for radio's medium go back to the printed sheet."

organised a fife band, which gave good service until 1917, when a trumpet and bugle band, under the leadership of Mr. A. H. Brown, was formed. This combination was well known and on many occasions gave their services to local bodies and patriotic services.

In 1920 the present bandmaster, Mr. A. Iremonger, took charge, and during the year a set of second-hand brass instruments were purchased with a view to forming a brass band. The practices were commenced in November of that year, and the progress was such that the band was able to go out Christmas carolling. The band was attached to the cadets, and 1921 saw the purchase of uniforms at a cost of £326. The next progressive move was the purchase of a set of Higham silver-plated instruments in 1927 and the formation of a junior band and learners' class; 1929 saw the re-organisation of the band from brass to military with a membership of 52, and in 1930 a new set of uniforms were purchased.

At all times the services of the band have been at the disposal of institutions such as the public hospital, Porirua Mental Hospital, Ohio Home, Seamen's Mission, Red Cross, St. John Ambulance, and a host of others too numerous to mention.

Mr. Iremonger is deserving of the greatest credit for the way in which he has built up such an excellent combination in the comparatively short space of ten years. The services of the band are at the disposal of the public, and if required, a telephone call or a letter to the director will receive instant attention.

Entertainment anywhere---any time

CROSLEY

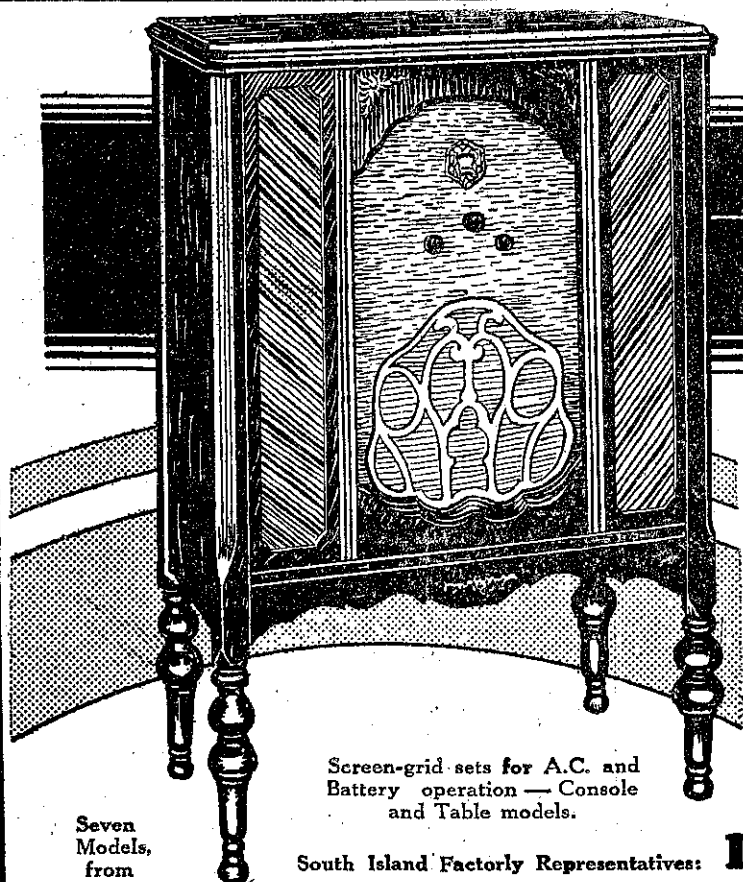
SCREEN-GRID RADIO

Don't take chances by buying a radio of unknown quality—many are "here to-day and gone to-morrow." Play safe—with CROSLEY! Its quality has won for it the leadership in the radio world.

CROSLEY value has never been equalled before in radio history. No wonder they're all buying CROSLEY RADIO.

Write at once for Price List and name of nearest agent.

L. B. SCOTT LTD., Box 395, Christchurch
(Cr. Manchester and Worcester Sts.)



Screen-grid sets for A.C. and Battery operation—Console and Table models.

Seven Models, from £32

South Island Factory Representatives:

(Continued from page 1.)

I was particularly interested in this piece of apparatus, and Mr. Biere withdrew it from the camera to show exactly what was happening. The cell was sparking and the light differed in intensity according to the sound. There were bright sparks and dull ones, but there were thousands of flickers every second. These are admitted to the film through a slit one-thousandth of an inch, and the slide of the film has a mark on it 1/1000th of an inch wide, of a density corresponding to the note sounded by subject. It was all very wonderful. There before me the little ditty being sung was being turned into electricity and amplified, then into light, and finally into black and white, and recorded. But the process was expensive, for the camera was valued at over a thousand pounds, the little photo cell ten pounds, and its life ten hours.

W.B.'s ejaculation—"Hey, Sam, who comes after Katie of Kaiwarra?"—interrupted my musing.

"Don't know, Bill—you wrote it, didn't you?"

"S'pose I did. Were's some blimmen chalk," and W.B. disappeared into the building and emerged a few minutes later with a blackboard inscribed by hieroglyphics that were intelligible only to the man himself.

"Did Mr. Bishop write it himself?" inquired one of the assistants who was near me at the time. I explained that he did, and that the other ditty that he was to sing, "Ode to the Kiwi" (or some name like that, I have forgotten what the boys call it), was likewise original.

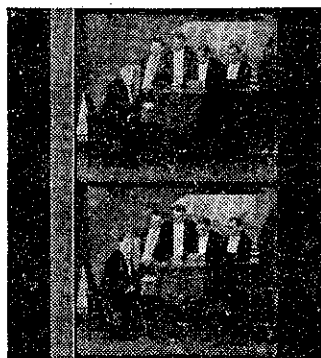
"That is the beauty of the whole show to-day—it is original," added one

The First Studio Talkie

of the Melody Four, who were nearby. The little cornfields ditty is our own arrangement."

"Well, there will be no copyright problems," I added, remembering the efforts that had already been made by broadcasting artists to overcome this difficult situation.

"Just once more, that introduction,



This is W.B. (at the piano) and the Melody Four singing the Kiwi Song. The light marks on the left are the sound impressions.

please, Mr. Bishop," I heard Mr. McLean ask, and in a few moments all was ready for the first studio talkie.

It was bitterly cold, for the wind was cutting over the wall, sheltering Mr. Bishop and almost freezing everyone else. I noticed that some disappeared and came out with coats on.

I was regretful that I had left mine at the office, and tried to shelter behind a wing of the building, but it was hopeless. I was glad when a little later someone announced that there was some tea inside.

The making of the talkie was no more than I had expected after the preliminaries; the camera was set in motion by the simple expedient of turning the switch, and W.B. just did his turn. When he had finished, camera-motor and sound-recorder were turned off, and the deed had been done.

"Well, 'ow did it come through?"

"Fine," we all chorused, for it had been a good turn.

"Did you like it, Walter?" asked W.B., addressing himself to our old friend.

"Too right, I did, Bill," was the pat rejoinder, for the opportunity to recall the broadcast patter was too good to miss, and Mr. Marshall rose to the occasion.

While the films were being changed, the Melody Four took their position by the piano, the microphone was adjusted, and everything was in readiness.

"Now once over to your Uncle Billy," and a dress rehearsal was staged.

Half-way through W.B. picked up a piece of cinder and wrote something on the wall, and later added another word.

"All right, boys, but there are a couple of things," and W.B. moved over and held a consultation. "Right

oh, lettergo," and the Melody Four made their talkie.

In the next and final act the five took part. It was the "Ode to the Kiwi," and even though we had heard it often it did not fail to raise a smile (for laughs were prohibited at this stage) when it was finally sung to the camera. A few moments after the last word had been uttered, the camera, sound equipment and microphone were down and packed, for there was another film to be made that afternoon. This week, the famous Rotorua Maori party are to have a film recorded at Rotorua.

"How does it feel like to be film stars?" I queried.

"Great, except we'll get a wire to take an aeroplane to Hollywood when they see this effort," said one of the boys.

"When will the film be ready?" we asked Mr. Biere.

"We'll develop it this afternoon, you can see it next week, and it will be out to the theatres a week hence, but when it will be released I do not know."

"That's fine," and thinking that our readers would like to see a piece of the film I asked if we could get a print in time for this week's issue.

"Yes, I think we can manage that," said the photographer, and that is how this unique picture is in the paper this week.

And so the first New Zealand studio talkie was made by broadcast artists.

A 1YA Lecture-Recital

MRS DAISY BASHAM, whose talks about famous composers are always so informative and interesting, will take for the subject of her next recital "Rossini." She will, on this occasion, be assisted by Mr. Len Barnes, baritone.

Rossini, happily remembered as the most modest and good-humoured musician who ever lived, holds his place on the operatic stage of to-day solely by "The Barber of Seville," which, in spite of its age, is one of the best comic operas the world possesses. His serious work, "William Tell," is no less worthy of affectionate regard, but except for the overture it has apparently disappeared from the present-day theatre. It begins with a fine, tuneful section for the 'cellos in four parts, popular with 'cello players and with listeners alike. The section which follows describes a great storm among the hills; calm succeeds, and a quiet pastoral scene, and there is a stirring march, these combining to make the overture picturesque and graphic in a way that the overture for the older Italian operas did not by any means always achieve.

One of the numbers to be played by the 1YA Orchestra on the evening of the lecture-recital will be the "Semi-ramide" overture, only the overture of which now survives. It is interesting, however, to recall that the opera itself made something of a success when given under Rossini's own direction at the King's Theatre, London, in 1824.

The 2YA Eight O'Clock Revue face the camera on the occasion of their last appearance in the series. From left to right, they are: Messrs. Wally Marshall, Sam Duncan, Will Bishop, Frank Bryant, Miss Doris Clark, Mr. Sid, Allwright, Miss Elsie Croft.

—Wallace, photo



The New Zealand Radio Record

—AND—

Electric Home Journal

(Incorporating the "Canterbury Radio Journal.")

P.O. BOX. 1032. WELLINGTON.

Published Weekly. Price 3d. Subscription Post Free in advance, 12s. 6d. per annum; booked, 15s.

Literary communications should be addressed: "The Editor"; business communications to "The Manager"; technical communications to "The Technical Editor."

Advertisers are asked to note that alterations of advertisements should be in hand Friday of each week for insertion in the succeeding issue, printed Tuesday, bearing Friday's date. No responsibility is accepted for blocks remaining unclaimed three months after each insertion.

RADIO PUBLISHING COMPANY OF NEW ZEALAND, LTD.,
P.O. Box 1032, WELLINGTON.

WELLINGTON, FRIDAY, OCTOBER 3, 1930.

THE BROADCASTING SERVICE.

THE fact that the number of licensed listeners at August 30 exceeded 56,000—the record high-water mark for the Dominion—carries its own commentary as to the public appreciation of the radio service. It is not without significance that this figure has been attained without any special campaign; simply as a matter of growth following upon the provision of a high average of good programmes. Wellington stands noticeably high in the provincial centres, indicating an appreciation of 2YA's major power and wider range. That this expansion has taken place in a period of recognised economic depression may be accounted for perhaps by two main factors. First there is the recognition that the service, as a whole, is worth subscribing for—in fact it is the right thing for wireless to be installed for use as required for entertainment and information. In the second place, the very fact of depression has, in our opinion, helped radio in that it must be recognised to provide cheap and permanent entertainment. With hard times, the advantage of sitting at home and enjoying good programmes economically instead of patronising the higher-priced amusements afforded by other means, has won increased recognition. Whatever the cause, however, the outcome of sustained popular approval is satisfactory.

THE position that has been won in the main centres makes it, in our opinion, the more desirable that consideration should be given to the policy of expanding the service by the provision of connected relay stations in strategic provincial centres. This is, in essence, the regional plan upon which the B.B.C. has covered Britain

and acquired a license roll of well over three millions, with an estimated radio audience of fifteen millions on national occasions. Through the factors of distance and location, reception of the main stations in certain well-populated areas of the Dominion is not uniformly good. These technical facts are now well recognised as also is the fact that the best counter is to establish local transmissions preferably, for the sake of adequate programmes, by relay from the nearest main centres. Plans of this nature were prepared two years ago and submitted to the authorities. We are hopeful that with the proof of the important place radio has won in the public estimation and the recognition that the subscribers to the service can more quickly be enlarged by carrying the service to new centres, effort will be made by the Government and the Company in conjunction to meet the problem. The objective of adequate coverage of the whole Dominion will be most economically and efficiently attained by this co-ordinated policy, as it offers the advantages of minimum overhead, minimum capital expenditure, fullest programme efficiency and minimum copyright payments.

WE have received correspondence from several listeners calling attention to what they regard as a contravention of the regulations and a breach of good taste. These correspondents state that they are in areas covered by certain "B" class stations and they draw attention to the manner in which these stations are using the air for propaganda in their own interests and against what they describe as the "monopoly" of the existing service. Following on this information steps were taken to check up on the transmissions of several "B" class stations, and as a result we unhesitatingly call official attention to the matter. Obviously officials must be unaware of this breach of the regulations regarding both the dissemination of propaganda and the transmission of point to point messages, as we cannot conceive that, having knowledge, the matter would not be checked. "B" class stations are naturally enough perturbed about the copyright position which we outlined recently. In their problem they have our sympathy, but the interests of the whole radio service are paramount. Looking at their own future interests they, of course, would be pleased to create a position where they can secure a share of listeners' fees and also the right to deluge the air with advertising matter, against which we publish elsewhere in this issue a warning by no less an authority than the famous radio engineer, Dr. Lee Forest. We are perfectly convinced that to concede a share of revenue and the right to advertise to "B" stations would be gravely detrimental to listeners' interests. On the one hand diffusion of revenue will inevitably lead to weakness and on the other, the saturation of the air with advertising in any degree would simply ruin the service as a means of entertainment and enjoyment. Listeners need to view with clear eyes the position of "B" class stations and the ultimate effects of certain objectives.

Over 56,000 Licenses

Remarkable Growth Shown

FOLLOWING is a return showing the number of radio licenses at August 31, 1930:—

District	Receiving	Dealers'	Tr'sm't'g and Receiving	Exp'm't'l and Special	Free
Auckland	16,644	267	74	2	96
Canterbury	9,225	244	48	1	55
Otago	5,866	166	35	3	33
Wellington	23,498	448	89	6	51
	55,233	1,125	246	12	235
TOTAL	56,851				

Metrodyne

HEAR IT **RADIO GRAMOPHONE**

AT ROYDS-HOWARD CO. 553 COLOMBO ST. OPP NIVENS



BATTERY CLIPS

MAKE SURE CONNECTIONS

Are Specially Plated **PRICES**
to Resist Acid from**SAVE TIME** 4d upwards**A. E. Strange**

IMPORTER OF RADIO GOODS

404 Worcester St. Christchurch

Aeroplane Radio

Telephony in N.Z.

SUCCESSFUL tests of radio telephonic communication between an aeroplane and the ground were carried out last week in Canterbury. When a Bristol Fighter flew over Rakaia, more than forty miles from Wigram aerodrome, one of the occupants of the plane talked to members of the Air Force staff on land.

The plane was equipped with a 30-watt transmitter and a super-het receiving set. The ground transmitter was of about 100 watts. The pilot of the plane used in the tests was Flying Officer E. Olsen, N.Z.P.A.F., and his passenger was Mr. B. Henderson, an engineer of the Radio Broadcasting Company. The instruments used were standard Royal Air Force equipment.

The distance over which the signals were exchanged constitutes a record for New Zealand, as the Southern Cross in tests which it made while in the Dominion used Morse code, not telephony. As well as its wide use in commercial flying, radio plays a big part in modern military flying, both telephony and Morse being used.

"Son of Peter"

Radio Presentation

THE radio presentation of Mr. Victor Lloyd's "Son of Peter," broadcast from 2YA Monday last, was a distinct success, and listeners who have read the book will agree that although certain of the force had been necessarily sacrificed, the representation was good. As John Fortis, the vigorous, unscrupulous business man, Mr. Lloyd was excellent, and forceably translated the character he had created. He worked up his climaxes in great style, drove home his points unhesitatingly, and the final collapse of John Fortis was indeed remarkable.

As Miss Cameron, Mrs. Lloyd was good, for her part was a difficult one, and she filled it well, though possibly was over-dramatic in places. The tapping of the typewriter in the background was annoying, and, at times obliterated the speeches. It would have been better more in the distance. Frank Bertram's part was well done by Mr. E. A. Clark, who interpreted the uncertain actions remarkably well; certainly a contrast to the vigorous John Fortis, who eclipsed all but his secretary. Mr. H. A. Painter as Pary, the storeman, filled his part well, and introduced a light touch which relieved the tenseness. The supports, especially Susie Painter, as May Marris, were well up to all that was expected of them.

It was an excellent play well presented, and we hope to hear more of V.S.L. drama broadcast. The suggestion has been made that "The Son of Peter" should be given a stage presentation in Wellington, and if this idea appeals to the public there is a likelihood of it being carried out. Perhaps the "Repertory Theatre" might seize the opportunity.

The Eight O'clock Revue

Final Appearance of Series

SATURDAY marked the last of the very successful "Eight o'Clock"

revues that have been a feature of the programmes from 2YA during the last two months. Six evenings have been given and they have proved very popular. The limerick competition has attracted a large number of entrants, and in bringing them to a close Mr. Bishop desires to tender his sincere thanks to the many hundreds of listeners all over New Zealand for their cheerful co-operation with entries and votes. The object of the competition was the entertainment of listeners, and the large number of appreciative letters received show that this object has been achieved. The undoubted success of the competition is due entirely to those listeners who have participated.

Throughout, the standard of the entries has been high, and those who have reached publication standard have been very fine attempts. In many instances the voting for the ultimate winner was very close.

The farewell entertainment on Saturday last was a fine culmination to this bright series of evenings, and the children's session cannot be allowed to pass without a word of commendation. This was a complete change from the usual run of the sessions, and was appreciated by old and young alike.

During the evening request items were presented and these included all the favourite numbers that had gone over the air since the inception of the revue. The sketch, "Auditions," calls for special commendation. It was certainly topical, original and bright.

The last series of limericks was read over the air, and listeners are to send in their votes by October 2. The result will appear in our issue bearing date October 10. All votes to be addressed to Mr. Will Bishop, Box 1032, Wellington.

Listeners have selected limerick No. 2 as the winner of the fifth series on the subject of music or musicians. It read as follows:—

*He thought he could play a sonata,
His poor wife was always the martyr;*

*But one day, in her madness,
With gusto and gladness,*

She strangled the brute with her garter!

This limerick was sent in by H. Bruce, Lyall Bay, Wellington.

Sixth Series.

No. 1.

*A frisky young lad of Levin
Once ventured to sample some gin,
When caught in the traffic
His manner was graphic,
He neither could stop nor begin!*

No. 2.

*There was a young lady called Stella,
Whose complexion was frightfully yella,*

*Her mother allowda
To use tons of powda,
And now, for some miles you can smella!*

No. 3.

*There was a young woman called Jane,
Who was so remarkably plain,
She was tactfully asked
To go about masked
To avoid giving passers-by pain.*

No. 4.

*In limerick making, it's schism
To make up a rhyme (such as "fiz-zum")*

*When left in the lurch
Is that famous word, "Church-disestablishmentarianism!"*

No. 5.

*An animal trainer, so-called,
Once remarked, "I have never been mauled;*

*I can face a wild bear
Without turning a hair,"
And he could—he was perfectly bald!*

No. 6.

*"How can I feel warm," said Miss Beattie,
In a pitiful tone of entreaty,
"I haven't got int'er
My 'woollies' this winter—
I left 'em aboard the Tahiti!"*

We can suit You with an Electric Radio Set

PHILIPS Q.P. Set and Speaker £19/15/-

"PLYMOUTH" Screen-grid 5-valve Receiver with built-in Dynamic Speaker £22/10/-

"ROLA" Screen-grid Radio in handsome Console Cabinet of Maple and Walnut £38/10/-

EASY TERMS ARRANGED.

G. G. MACQUARRIE LTD.,
120 WILLIS STREET, WELLINGTON.

Wireless Telephone

Sydney-London Business Talk

AN Australian representative, sitting in a Sydney office, discussing business policy with a board meeting in London of a firm of motor exporters is the latest wireless telephone advance. Five directors, with earphones, sat at a table while the chairman turned on a switch connecting the meeting with the Sydney manager, who joined in the discussions as if actually present.

The Post Office states that other London offices propose to instal similar equipment.

New York's Sky Police

To Carry Radio

REGARDING the use of radio in crime detection, ambitious plans have been proposed by the New York police. Not only is it proposed to transmit instructions to police patrol cars by radio, but it has also been suggested that the system might be employed to broadcast instructions to New York's recently established unit of sky police.

Transmitting instructions to aviators by radio is not new, but the use of such means of communication by flying police has not been undertaken elsewhere for the simple reason that few, if any, other cities have police aviation units.

Miss Marjorie Alexander

THE date on which Miss Marjorie Alexander, the talented young pianiste to whom reference was made last week, is to perform at 3YA has been altered from Wednesday, October 8, to Wednesday, October 29. Her items will be "La Campanella" (Paganini-Liszt) and Liszt's "Sixth Rhapsody."

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Language Problems

An Electric Interpreter

THE language difficulty at international conferences such as the League of Nations is a difficult one. It has to some extent been solved by the use of interpreters who translate the speeches and present them in writing to the various delegates. Obviously it is impossible to handle a multiplicity of languages, so that English, French, and German are made the official languages.

Radio and electricity have now come to the aid of these meetings, and a novel and useful scheme has been developed whereby the delegates can hear the interpretation of the speech as it is in progress. The interpreters are seated near a rostrum from which the speeches are made, and are equipped with microphones fitted to amplifiers. These lead into phones which are placed at the disposal of the delegates. As the speeches are being made they are translated and immediately reach those equipped with phones.

There are several interpreters, and any of the authorised version can be had by merely selecting the phones. Each equipment is provided with volume control and switch. The interpreter's microphones are duplicated so that one man can replace another without causing a break in the translation. On the wall at the back of the rostrum an illuminated sign automatically indicates the language being translated at the moment.

The system was found to work admirably in a recent try-out. It naturally taxed the skill of the interpreters, though in many instances they had written versions of the addresses before them. The saving in time was very great indeed, and it was found that having no pauses for translation was a distinct gain in other respects.

Children's Sessions

From 1YA.

TUESDAY, OCTOBER 7: Cousin Jean will bring some songs and Cousin Miriam will play piano solos to assist Uncle Dave to make the hour a happy one.

WEDNESDAY: Uncle Tom on deck once again with stories and songs, and Cousin Phyllis present with more of her charming pieces.

THURSDAY: This is the evening that Peter Pan comes to the studio and tells the Radio Family about games to play and catches. The pupils of Miss Winthrop will supply dialogues and sketches.

FRIDAY: Here we are again with Nod and Aunt Jean in charge, and the choir from the Kowhai Junior High School will make their first appearance before the mike.

SATURDAY: Cinderella will have stories and jokes to tell and cousins will assist with musical items and recitations.

SUNDAY: Children's Song Service conducted by Uncle Bert, assisted by Ponsonby Baptist Sunday School.

From 2YA.

MONDAY, OCTOBER 6: The little pupils of Ethel Mackay, with the help of Winnie Cooley, are giving a special radio presentation of "Alice in Wonderland," to-night. Uncle Jeff will conduct the session.

TUESDAY: To-night's programme is being given by the pupils of Miss Marjorie King. Big Brother Jack will be the host for the evening.

THURSDAY: To-night, one of the popular programmes prepared by G. Helen Gardner—chorus work, a little play, and songs. It is Uncle George's evening.

FRIDAY: Uncle Jim's evening to-night. There will be items from

the pupils of Miss Ivy Hoare and Story Book Lady will entertain.

SATURDAY: Something special to-night. The Hutt Boys' Orchestra is to play. It will be their first appearance at 2YA. There will also be recitations by the pupils of Isobel Halligan. Of course, you remember it is Uncle Toby's night.

SUNDAY, OCTOBER 12: Uncle George will conduct the session to-night. The children's choir work will be by the children from St. Aiden's Church, under the leadership of Mrs. Wahlers.

From 3YA.

MONDAY, OCTOBER 6: We will be entertained by "Scatterjoy," assisted by the "Mystery Man," while Evelyn will sing.

WEDNESDAY: Uncle John again, with Mrs. Frye's jolly pupils to sing and recite.

THURSDAY: An amusing chorus or two with "Ladybird," Uncle Frank and Uncle Dick—stories, songs and a playette. Eunice will give humorous items.

FRIDAY: Chuckle, whom the children love, will tell his stories and sing his songs. A happy school choir will assist.

SATURDAY: Uncle Charlie is bringing his Melodious Choir and many English songs and choruses will be given.

SUNDAY: The song service will be under the guidance of Mr. Ames, representing the Church of Christ.

HAVE you renewed your subscription to the—
"Radio Record and Electric Home Journal"?

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Jazz a "Torture in Hades"

Judge's Strong View

APROPOS requests made by several correspondents concerning a "jazz week," the following views on modern dance music expressed recently by an Irish judge may prove of interest.

During the hearing of a case in Dublin, in which complaint was made of a

Broadcast of By-elections Results

PROGRESS results of the polling in connection with the Waipawa and Western Maori by-elections, which are to take place on Wednesday, October 8, will be broadcast by all stations. 2YA Wellington, which would normally be observing a silent day, will go on the air at 8 p.m.

jazz band performance by the occupier of a room in an apartment house, the judge remarked: "There will be a particular department in hell, and there will be nothing in it but jazz bands, gramophones, loudspeakers, and motor-horns all going at the same time. People who had these things in this world will be listening to them for all eternity." "I call a jazz band," he concluded, "a form of hell."

A Bright Programme

THE Training College Glee Club, under the direction of Mr. H. Hollingrake, is to give a programme from 1YA in a few weeks' time. This will include part-songs, folk songs, solos, sea chanties, and a short one-act play.

Dance Orchestra

Popular Combination

REGULARLY featured on 3YA programmes is the Bailey-Marston Dance Orchestra, probably the finest combination of its kind in either New Zealand or Australia. The orchestra is in great demand for social engagements, and its dance music sessions from 3YA are appreciated by listeners throughout New Zealand. A speciality is made of presenting the very latest tunes.

The accompanying photograph (by Stephano Webb) on the left was taken by flashlight on the last appearance of the orchestra in 3YA studio. The members, reading from left to right, are: Messrs. R. O'Daniells, W. Bailey, Laurie McGee, A. Pointer, F. Squire (pianist), H. Bailey (standing at rear), J. Tomlinson, Les Marston, S. Floyd, and C. H. Taylor. The orchestra takes its name from Mr. H. Bailey (standing, at rear), and Mr. Les Marston, two excellent musicians and organisers.



NOTES and NEWS from the NORTH

Of Topical Interest

THE contract with the Auckland City Council for the broadcasting of the Municipal Band and the Municipal Choir runs out on October 26, but so far negotiations have not been entered into for its renewal. It is to be sincerely hoped that this popular band will not be put off the air as it was when the last contract terminated.

A NUMBER of interesting programmes are to be given from 1YA during October, these including one by the band of the Jubilee Institute for the Blind on October 15, the play "David Garrick" on October 17, a concert by the 1YA Choir on Sunday, October 19, a special Trafalgar Day programme on October 21, a programme by the Alpine Club relayed from the Lewis Eady Hall on October 23, and a programme by Mr. Barry Coney and company on October 31.

THE Blind Institute Band has previously been heard from 1YA, but has now reached a much higher standard of playing. The band, which consists entirely of blind people except for the conductor, Mr. G. Bowes, is at present touring the North Island, and their 1YA programme will be given on the completion of this tour. The band has two sections, a full brass band and a jazz band, and includes a number of clever instrumental and vocal soloists. Their programme will introduce several novelties and musical monologues, while an unusual instrument called the vibraphone will be heard in two solos played by Mr. R. Gerradi. The most versatile member of the band is Mr. S. Gordon, who plays five or six different instruments and sings well. Those who have never actually seen this band are apt to wonder how Mr. Bowes conducts them. His method is to thread his way in and out among the players, listening to them and touching them gently on the shoulder to give them the time or to make them alter their pitch.

PART of the musical play, "Tutankhamen," which is being put on for a week at His Majesty's Theatre by the Auckland Amateur Operatic Society will be relayed from 1YA on September 27 and October 2. This play, which was written by the well-known solicitor, Mr. Laery, scored a remarkably popular success in both its previous runs. Mr. Eric Waters, whose playing is well known to 1YA listeners, has written some special additions to the musical score for this production.

OTHER new artists to be heard from 1YA in October are Master T. R. W. Trafford, boy soprano, and Olive Munro, contralto, of Tauranga, both of whom will sing on October 22.

A VERY large number of entries has been received for the 1YA song-writing competition, and the judges will have a hard task before them. It is surprising to find so many budding song-writers in the community, and if only a small percentage of the entries come up to standard it would be possible to make a programme out of them.

MR. REX HARRISON, the popular bass-baritone, concluded his tour of the New Zealand broadcasting stations when he sang from 1YA on Sunday night. Quite an audience had assembled at the studio, and it was announced that special permission had been granted for the inmates of the New Plymouth gaol to stay up late in order that they might hear him. The programme did not conclude till 9.50 p.m. Before singing his last song, Mr. Harrison said that he wished to thank

Moments at the Piano." These artists, who have recently concluded a tour of Australia, were heard by Auckland listeners some years ago before the present 1YA was opened, but they were then known as "Wendy and Alphonse."

A French radio journal states: "The evening concerts of the Eiffel Tower are sad, sad, the musicians not worth twopence, and the programmes nerve-racking."

It is said that the sound film is responsible for the musical culture of not a few of Hollywood's stars. Many homes in that city are fully equipped with musical instruments, and of these radio is well to the fore. Richard Arlen, Gary Cooper, William Powell and George Bancroft are all radio enthusiasts, and if one enters their home at any time they are in, the sound of the radio will greet him.

Chrysanthemums

CHRYSANTHEMUMS by an old stone wall
Are maids in soft green dresses—

Ladies fair . . . so slim and tall,
With quaintly piled up tresses.

Clustered coils of yellow hair,
Curls of gold and red,
Brown and bronze, and here and there
A snow-white powdered head.

Ladies fair, of long ago,
Clad in soft green dresses,
Lightly swaying to and fro,
Tossing perfumed tresses.
—C.S.

the Radio Broadcasting Company for their courtesy and many kindnesses to him, and said that it had been a real pleasure to sing for them during his contract. He also thanked all those in charge of the four New Zealand YA stations.

GORDON HUTTER, 1YA sporting announcer, had a busy day on Monday when the local station relayed the Avondale races and then went on the air again in the evening to relay the Walker-Lurich wrestling contest from the Town Hall. The race relay consisted merely of announcements as to starters and results, the rain making any description impossible. The wrestling was one of the best exhibitions staged in Auckland this year, and provided plenty of thrills. The microphone was lucky to escape damage, and when one of the wrestlers was hurled over the ropes and nearly on top of the microphone, the announcer said, "I wish they'd find somewhere else to throw each other. If we go off the air you'll know one of them has landed on us."

A NEW combination to be heard from 1YA during October is that of Ernest and Wendy Luks, a professional musical comedy couple lately of J. C. Williamson, Limited, who will give an entertainment entitled "Merry

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Hundreds of delighted listeners are the proud owners of CROSLLEY BUDDYS—a popular model of the new Crosley range. But we want to make this magnificent receiver even more popular—so we are making the following special offer: A MINIMUM ALLOWANCE of £5 on any trade-in receiver or gramophone will be given to those who purchase a "BUDDY" between September 24 and October 22. Crystal Sets are included in the above offer, but only one trade-in will be taken on each individual purchase. This generous offer is for ONE MONTH ONLY, and applies to NORTH ISLAND RESIDENTS ONLY, so mail the Coupon without delay and get full particulars of the "BUDDY."

Six Valves, with Screen Grid; Matched Impedance, Power Speaker. All-electric Operation—the "BUDDY" incorporates all the newest and best features known to radio, and, like all Crosley receivers, it is critically tone-tested.

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Sirs,—Please send me full
particulars of the Crosley
"Buddy." I wish to trade-in
a Set.

Name.....
Address..... "R.R."

Branches:
Bank Street, Whangarei.
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The Price is still
£34
COMPLETE

No increase has been
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The Human Side of Noise

BRUNSTEN BRUNN

Surveys the Interference Problem and draws conclusions as to how it may be ultimately overcome



ANY owners of super-sensitive radio receivers are disappointed with the performance of the sets because of the amount of noise they pick up. They find that their receivers are capable to pick up regularly stations 1000 miles away, and frequently stations as far as 2000 miles away, but they also find that the sets bring in all kinds of electric noises originating for miles around their receivers.

Naturally these disappointed listeners want to know the cure of the noise evil. What should be done?

Engineers have looked into this problem thoroughly and are now closely conversant with its peculiarities. On the question of reducing the amount of noise they do not offer much encouragement. One famed engineer versed in mathematics has proved that there is practically no hope of improving the signal-to-noise ratio, the criterion which determines the usefulness of a sensitive receiver. Experimental engineers have corroborated these mathematical conclusions, and their assertions seem to give less hope than ever, since we have, as a rule, greater confidence in experiment than in mathematical deduction.

The mathematical and experimental engineers both agree that there is little hope of clearing up the noise intermingled with signals from distant stations.

Sources of Noise.

THE sources of noise are legion, and it is surprising that any clear signals can be received from either local or distant stations. Every household electrical appliance, from a lamp to a cooking stove, is a potential or actual source of noise.

Some of these are continuous, others intermittent. The continuous sources of noise cause the greater interference, since they give no respite. The intermittent sources of noise also may become continuous when there are many intermittent sources in one locality. This statement, no one living in a crowded apartment-house section of a city will deny. The noise from turning on of electric lamps in the gloaming is alone sufficient to spoil most programmes.

Continuous sources of noise are those that continue all the time between starting and stopping. Thermostats, motors of all kinds having brushes, X-ray machines, vibrators, electric bells, sign-flashers, and the like are continuous sources, for as long as they are on they give out a steady interference.

Most of these sources of noise are man-made and cannot be called static or atmospheric. Since they are man-made they can also be cured, provided that they are attacked at their origin. But the remedy is expensive and it seems that nobody bothers. Why, for example, should one housewife stop cleaning her house with a vacuum-cleaner just because somebody else wants to listen to a radio programme? Why should she have the motor in the cleaner fixed as long as it runs without trouble to her? Why should an X-ray specialist stop plying his trade

just because somebody happens to be in no need of X-raying?

There may be a time when the law will say that only electrically silent vacuum-cleaners, X-ray machines, doorbells and the like shall operate. They may stop the operation of nearly all electrical machines and appliances, for it is an undertaking of the first magnitude to silence all the electrical devices.

Nature's Noise.

IT may be that a law prohibiting such devices would be unenforceable, for at this time at least nobody is really in favour of it. While everybody is in favour of having the noise stopped, nobody wants to stop the noise he makes himself. Nobody could operate a disturbance-creating device in secret if a general law were passed, for every noise-maker shouts loudly that it exists and where it exists.

While man-made noise predominates in the average radio receiver on an

It is the super-sensitive radio receiver that brings in most of the noise. Why should this be? Because if the set is sensitive enough to pick up the signals from a station located 3000 miles away, it is also sensitive enough to pick up a larger proportion of the man-made and natural noises originating in an area having a 3000 miles radius, or 28,000,000 square miles. In that area there must always be many atmospheric discharges every few seconds and countless examples of man-made noises.

It is not enough to say that only those atmospheric discharges occurring in the area of 3000 miles radius about the receiver will be picked up. Chances are that, as far as static crashes are concerned, the radius will be increased to 12,000 miles, and the area, that of the surface of the entire earth. If shortwave signals travel round the earth a time or two, why not the static crashes which are much stronger than

local stations are clear is that the signals are strong as compared with the noise strength. That is, the ratio of the signal to the noise is high. The only practical method of combating noise that has yet been discovered is to increase the strength of the signal until it drowns out the interference.

This method of combating the noise, whether natural or man-made, has been advanced by radio engineers since the beginning of broadcasting. It was for this reason that the power of broadcasting stations was increased from 500 watts to 50,000 watts, the limit now set by the Federal Radio Commission. If the engineers and certain members of the Federal Radio Commission who understand the problem could have their way, the limit would not be 50,000 watts. Possibly it would be a million watts. If such powers were used by stations in well-selected geographical positions the problem of noise would be solved in all but a few out-of-the-way places.

Since the signal strength of a station varies approximately inversely as the distance, if the strength of a station were increased ten-fold, the service radius of the station would be increased in the same proportion, and the service-area would be increased 100-fold. For equal distribution of listeners in that area the reliable service, in terms of listeners, would also be increased a hundred-fold, and that by increasing the power of the station only ten-fold. That, obviously, would be economy both in power and channel space.

Reduction of Noise.

THE noise would remain constant in so far as the power of the transmitter is concerned, but the signal at any given point in the service area of the station would be increased in proportion to the increase in power of the station. Hence super-sensitive receivers would not be necessary, and there would be little complaint of noises in signals. At least one of these super-power transmitting stations could be received in any part of the country with a crystal or a one-valve set. Two or three stations could be received everywhere with a three-valve set, and with much less noise.

WE said above that local stations could be received with almost a little interference with a very sensitive receiver as with the modest receiver. They could be received with as exactly as little noise were it not for the fact that receiving valves introduce noises. Not a little of the noise that is heard in multi-valve receivers is introduced by the valves themselves, and therefore the larger the number of valves in a set the more noisy that set will be. This is quite apart from the interference that the multi-valve set, when adjusted to high sensitivity, brings in from outside. Is there any wonder that the super-sensitive set mingles a great deal of noise with the signals from the distant stations? Quieter valves must be developed to reduce valve noises, and this is a problem which may find a solution in research. —"Radio World."

The High-brow Loq.

THOSE fiends turn on that brazen-throated wireless,
And instantly there gather all the sounds
From hell; screaming of devils and the snoring
Of saxophones, and shrieking of female whistles;
The clanging and the thumping
Of the jostling spheres, stage thunder. Also
Shouting men at football matches, and sopranos
Glittering backward and forward on high notes,
"Comics" and "garden talks," and all the hell-found
Tintinabulating somnambulating crepuscular
Drugged ecstasy of a modern world in wireless
Chaos, falling to pieces into
A loudspeaker.
And so across the lawn and through the hedge
Comes this Great God Loudspeaker speaking Row;
In at the window, omnipotent and omphing,
Roaring around me, hotly panting Dim
In my quiet cool room.

A. P. Heron Ward.

average day, there are plenty of natural noises which are entirely uncontrollable, and it may be that stopping the man-made noise would not be worth while in view of the situation. What would it avail, for example, if all the man-made noises were stopped, only to have 49 per cent. of the total noise remaining in the form of natural noise? It really makes no difference whether all the noise is present or only part of it on certain days, for just a small part of it is sufficient to force the listener to turn his set off.

the shortwave intensity? And at least a portion of the crashes will be within the range of waves that travel long distances.

Local Reception Clear.

RECEPTION of local stations is usually clear except on certain days when thunderstorms are in the vicinity. And this clearness holds as well for the super-sensitive sets as for the relatively insensitive sets, or at least it holds nearly as well.

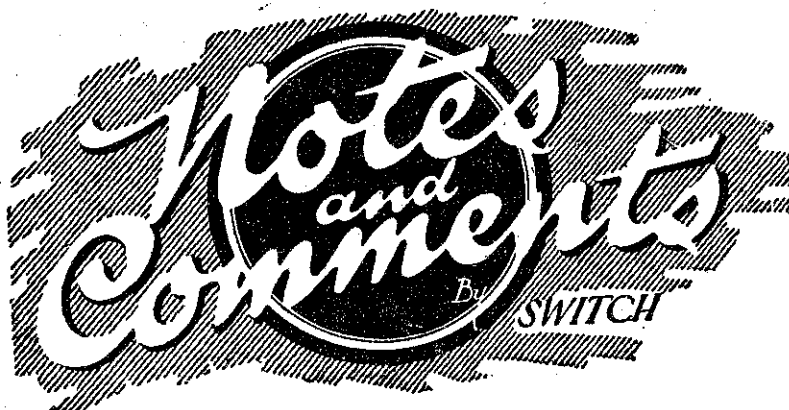
The reasons why the signals from the

SOME years have elapsed since "Switch" experienced such a wonderful night for radio reception as that of Thursday, September 25. Although static was by no means quiescent, the signal strength of the New Zealand and Australian stations, even including 6WF, Perth, was so high above all other noise levels that they could be tuned down till scarcely a crackle could be heard from the loudspeaker. After midnight 6WF could be heard all over the writer's house. A strong north-westerly wind was raging, and some heavy showers had fallen in the early evening.

ON that phenomenal night the Australian "B" class stations maintained a volume equal to that of 3LO, Melbourne, on a normal night. The new Adelaide "B" class station was excellent. 7ZL, Hobart, came in with exceptional volume, and the singing of choruses from a public hall in the Tasmanian capital was loud and clear, without fading. It was interesting to pass from station to station, comparing the items and methods of announcing. The Japanese stations were astonishingly loud. It was necessary to subdue JOHK, Sendai, at times, in order to tolerate it.

ON such nights when long distance reception attains such extraordinary volume, it is inevitable that new stations are stumbled across. The writer, in the early evening, found five American stations coming in with sufficient volume to be entertaining. The announcements, however, although definitely spoken with an American twang, were somewhat smothered by local electrical noises, and the call letters could not be distinguished. The stations, however, closed down in the early evening, consistent with the difference of time between America and New Zealand.

ONE station heard by "Switch" late on Thursday night, September 25, which mystified him was found on his tuning dial midway between the wavelengths of 3AR, Melbourne, and 4YA, Dunedin. This station was first noticed shortly after 10 p.m. when 2YA, Wellington, had signed off. The writer returned to the stranger at various times, but eventually lost it somewhere about 10.30 p.m. Orchestral selections and dance music were clearly heard, but the announcements were too weak to be intelligible. "Switch" would like to hear from any listener who has identified this station.



A JAPANESE station very seldom heard by "Switch" was also picked up on that notable night. Although no call-sign was given, the writer, through an estimate of the wavelength, considers this Jap station to be JOJK, Kanazawa, 423 metres, with a power of 3000 watts in the aerial. The language was identified as Japanese, and the music was exclusively Japanese. Considering that seven of the Japanese stations employ a power of 10,000 watts in the aerial, JOJK, with only 3000 watts, performed very creditably.

WHY some nights should provide such phenomenal long-distance reception is at present a mystery to radio scientists. On such nights the writer checks up the weather reports from the Australian stations, and he has found that on these occasions, with few exceptions, fine weather has prevailed at the transmitting end. On the other hand, when a tempest is raging in the vicinity of the broadcast stations reception is nearly always extremely poor. Foggy weather at the receiving end has generally been associated with weak long-distance reception.

THE approaching partial eclipse of the sun offers broadcast listeners in the Dominion an opportunity of testing the effect of long-distance reception. Of course, if the eclipse were total, conditions would be more favourable for the experiment. During the last eclipse of the sun, observed in America, broadcast listen-

ers noticed that during the brief period of total darkness, long-distance reception increased in volume as though it were night-time.

AMONG a group of Wellington listeners recently talk fell upon the subject of wireless pirates—people who are listening-in without paying their license fees. One of the speakers mentioned that he knew of a number of cases of pirating in Wellington. If listeners would only realise that broadcast listening is a community affair, and that broadcasting can only progress in a ratio to the number of licensees, the identity of these pirates would be disclosed to the authorities. These thieves are not only robbing the authorities, but are robbing their fellow listeners.

NEWS has been received from a brother listener in Melbourne that the copyright charges for the broadcast of gramophone records by "B" class stations is about to be applied throughout Australia. This has, he states, created quite a wave of consternation among the proprietors of Australian "B" class stations. He concludes with: "Negotiations are now in progress between the copyright people and the "B" class station proprietors, but what the upshot will be no one appears to know."

THE portable wireless set is making steady headway in New Zealand, and a Wellington dealer informs "Switch" that he is just able to keep up with the

demand for them. The approaching summer months, he anticipates, will give a further impetus to sales, as holiday-makers, whether by motor or yacht, are realising what a boon broadcast listening is when away from the cities and towns. A statement issued by the U.S.A. Federal Radio Commission estimates that of America's listening public, fully 78.3 per cent. use portable wireless sets when on holiday.

WHILE on the subject of portable wireless sets, "Switch" recalls meeting in Wellington a Sydney business man who carried a portable set wherever he went. In the evenings, after a strenuous day, he went to bed in his hotel about 8 p.m., and listened in to the various N.Z. stations, having procured a

Reception Table for Australian Stations

FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2LB, Sydney	9
4QG, Brisbane	8
3LO, Melbourne	7
3AR, Melbourne	7
2GB, Sydney	7
2UE, Sydney	6
3UZ, Melbourne	4½
7ZL, Hobart	3½
5CL, Adelaide	3½
3DB, Melbourne	3
6WF, Perth	2
2KY, Sydney	1½

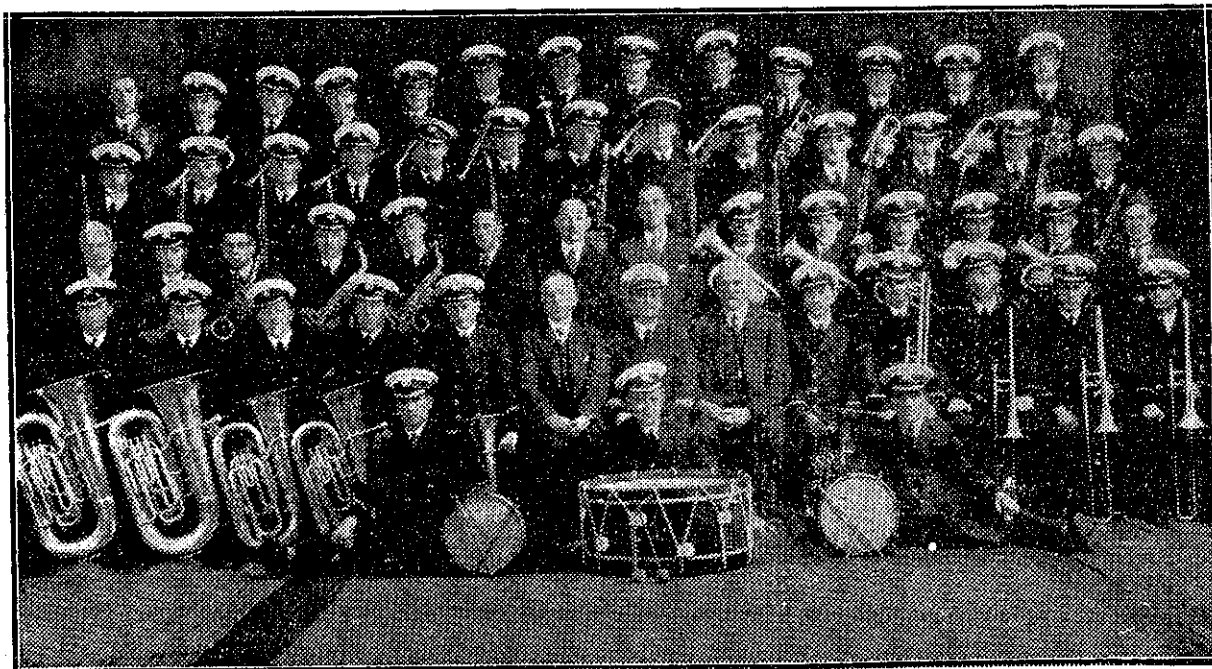
The above figures are the points assessed, with 10 as the maximum.

special license on arrival from Sydney. In other days, one of J. C. Williamson, leading musical comedy actors brought his portable wireless set with him to New Zealand and tuned in while waiting in his dressing room between his "calls."

PAT HANNA, formerly a Wellington signwriter and black-and-white artist, whose amusing "cricket sermon" gramophone records have been heard from the "YA" stations, took the chair recently at a humorous studio smoke night at 3LO, Melbourne. Pat Hanna is a man of many parts, and besides being the leading light in the well-known "Diggers" theatrical company for years, is also a first-class diver. He won more than his share of prizes in diving competitions at the Te Aro baths when a resident of Wellington.

A WELLINGTON listener who owns an a.c. set, was anxious to purchase one of the latest a.c. power valves, and asked "Switch" for his advice on the subject. An examination of the set, however, promptly revealed that it was not constructed for the newer type of valve and that it would be a costly undertaking to adapt the set to it. The power valve he was using, however, was nearly exhausted, and when he replaced it the set functioned perfectly.

The Wellington Boys' Institute Military Band, who, under the conductorship of Mr. A. Iremonger, will present a studio concert from 2YA on October 9.
—Photo, Crown Studios.



Feature Peeps at Future Programmes

SUNDAY

1YA's Relay.

THE evening services in St. Mary's Cathedral will be relayed. The preacher will be Canon William Fancourt and the organist and choirmaster Mr. Edgar Randall. A new radio artist, in the person of Mr. Claude H. Suisted, baritone, will make his appearance in the after-church session, singing "Drinking Song," "All the Fun of the Fair," and "Fairings." Miss Mary Coffield, soprano, will also be heard in a number of ballads, and items will be given by the Studio Trio.

Broadcast by 2YA.

THE service to be held in The Terrace Congregational Church will be on the air, the preacher being the Rev. H. W. Newell and the organist and choirmaster Mr. H. Brusey. The recital of the Wellington Municipal Tramways Band will be relayed from St. James Theatre at the conclusion of the church service.

From 3YA.

THE Rev. L. B. Neale will be the preacher at St. Albans Methodist Church, Christchurch, when the service will be broadcast. Afterwards, a studio concert to be given by the Woolston Band under Conductor R. J. Estall will be broadcast. Associated on the programme will be the Christchurch Broadcasting Trio, Mrs. Jack Mason (soprano) and Mr. F. R. Hawke (baritone). A horn solo will be played by Bandsman F. Turner and a cornet duet by Bandsmen Ohlson and Marquet.

Dunedin Notes.

THE Knox Church service will be broadcast, the preacher being the Rev. D. C. Herron, M.A., M.C. The relay of a concert to be given in the Empire Theatre by the St. Kilda Band will follow.

MONDAY

2YA Features.

MR. FRANK HILTON will give another of his series of talks on "Domestic Cooking" this afternoon at 3.40. He will take as his subject "Maidiera, Rock Cake and Nut Bread."

The 2YA concert session will be devoted to a relay of a concert by the choir of the Methodist Church, Lower Hutt.

The choir which performs under the conductorship of Mr. Ernest Dawson will present a programme of part songs and choral numbers. Included also will be the cantata "England Expects," by Hubert Bath. The outstanding feature of this programme will be that all the items, vocal and instrumental, will be the work of English composers. Assisting the choir will be Miss Evelyn Robinson (contralto), Mr. Wilbur Davies (baritone), Mr. Assheton Harbord (recitalist), who will feature a Dickens sketch, "Miser Smallweed"

(from "Bleak House"), while Miss Ava Symons and Mr. W. McLean, who will play "Sonata in G Minor for Two Violins," by Handel. The choir will also have the assistance of the 2YA Orchestra, under the conductorship of Signor A. P. Truda. The orchestra will also assist the society with the accompaniments for several items. Another item of interest will be the part song "Light," by the well-known local composer Claude Haydon.

Christchurch Topics.

AS a preliminary to Christchurch "Health Week," which commences

Galway, will be relayed from the Town Hall.

The assisting soloists include Mrs. Wilfred Andrews, a well-known Wellington contralto, Mr. Chas. Martin, L.A.B., will be the accompanist.

TUESDAY

Gleanings from 2YA.

THE evening concert session, which will be of the usual popular nature, will introduce to listeners a new soprano soloist in the person of Miss Phyllis Leighton. Miss Leighton has



MR. M. ERRINGTON and MRS. C. F. DE BERG.
Two popular Auckland artists. Mr. Errington is one of the city's most prominent tenors, and Mrs de Berg a well-known contralto.
—S. P. Andrew, photo

the following Monday, Dr. H. T. J. Thacker will broadcast a talk on "Why Health Week is Necessary."

A concert to be given by the Timaru Orchestral Society will be relayed from Timaru.

The conductor of the orchestra is Mr. F. J. Hyde and the leader Mr. Inglis Todd, L.A.B. An attractive programme has been arranged. The orchestral numbers will include: "Boccaccio" (a quick march), Schubert's "Unfinished Symphony," Bizet's "L'Arlesienne Suite," "Hungarian March" (Berlioz), the "Danse Macabre," a "Carmen Fantasia," and the overture to "Martha." Mr. H. G. Glaysher, the well-known Christchurch harpist, will play "Upon the Seashore" and the "Prison Scene" from "Il Trovatore."

On the Air from 4YA.

A CONCERT to be given by the Royal Dunedin Male Choir, under the conductorship of Dr. V. E.

The Week

Methodist Church Choir
2YA Monday

Timaru Orchestral Soc.
3YA Monday

Royal Male Choir
4YA Monday

"Rossini"
1YA Tuesday

By-elections
All Stations Wednesday

Optimists Party
4YA Wednesday

Boys' Institute
2YA Thursday

Concert from Town Hall
2YA Saturday

"Largo al Factotum," "La Columnia," and "Pro Peccatis." The 1YA String Octet, under the direction of Mr. Whitford Waugh, has included works by Rossini in its numbers for the evening. Madame Dorothy Cronin, F.T.C.L., soprano, who has quickly come to the front rank of Auckland singers, will be heard in "Senta's Ballad," from "The Flying Dutchman" (by Wagner), and also in two lighter numbers. A topical talk will be given by Mr. A. B. Chappell, M.A. These talks by Mr. Chappell are one of the most popular weekly features of the programmes.

At 4YA.

INTERSPERSING the band programme will be contributions by well-known Dunedin artists. The numbers by the St. Kilda Band, under the conductorship of Mr. James Dixon, will



MR. BILLY HART.
A popular vocalist, who will next appear from 2YA on October 7.
—S. P. Andrew, photo

been coached in her work by Mr. Bar-end Harris, of Sydney (who recently sang for the New Zealand stations), and her items will be looked forward to by listeners with keen anticipation. Supporting artists will include Mrs. Mildred Kenny's Banjo Trio. Mr. Len Ashton (a popular entertainer at the piano), and the singer of catchy songs, Mr. Billy Hart. The Salon Orchestra, under Mr. M. T. Dixon, will play popular selections. A feature of the orchestral numbers will be a selection for piano and strings. "Suterjintens Sontag," by Binding, the piano soloist being Mr. M. T. Dixon, the conductor of the orchestra. The dance programme will be commenced at 9.30.

Auckland's Programme.

TAKING as her subject the Italian composer, Rossini, Mrs. Daisy Basham will give another of her popular recitals.

Mrs. Basham will be assisted by Mr. Len Barnes, baritone, who will sing

include the waltz song "D'ete," a selection from "The Gold Diggers of Broadway," and the dance "Laughing Mariquette."

WEDNESDAY

Selections from Auckland.

THE popular combination, Barry Ingall's Hawaiian Quartet, will be heard on this evening's programme. Misses Edna and Phyllis Tye, already very popular with listeners, will contribute piano and vocal items, while Mr. Frank Campbell, who possesses a fine broadcasting baritone voice, will sing three favourite songs. Miss Nina Scott, elocutionist, who has not been heard for some months, will make a welcome reappearance. The instrumental items by the Studio Trio include a violin solo, "The Swan," by Mr. Whiteford Waugh.

2YA on the Air.

THE station will go on the air at 8 p.m. to broadcast progress results in the Waipawa and Western Maori by-elections.

3YA Notes.

EXCERPTS from some of the best-known operas will be played or sung to-night. Among these may be mentioned "Martha," "Faust," "The Bohemian Girl," "Carmen," "Tannhauser" and "Cavalleria Rusticana." A miscellaneous vocal and instrumental programme will be provided, while the Studio Instrumental Octet, under Mr. Harold Beck, will supply the orchestral numbers.

Dunedin's Programme.

THE next of the very instructive series of home science talks from 4YA will be on "Budgeting for the Home." This will be given by the Home Science Extension Department of Otago University. Both talks will be under the auspices of the 4YA Primary Productions Committee.

"We Want to be Happy," the name of the entertainment organised by the Optimists Concert Party for to-night, promises a bright evening's entertainment.

THURSDAY

Salads.

THE afternoon talks, prepared by the Home Science Extension Department of Otago University, from



MRS. DAISY BASHAM.
Whose next lecture-recital from 1YA, on October 7, will be on the Italian composer, Rossini.
—S. P. Andrew, photo

1YA, 2YA and 3YA will be on the subject of "Salads."

Features from 1YA.

THE popular novelty entertainer, Mister Ree, will once more present "Radio Magic" to provide entertainment both unique and interesting. The very popular artists, Madame Cora Melvin and Mr. Norman Day, will be heard in solos and duets. Included in their programme of the Studio Octet will be a violin duet to be played by Messrs. Haydn Murray and Frank Parsons. The programme will conclude with a session of dance music at 11 p.m.

2YA Notes.

THE speaker for the Home Science talk will be Miss I. F. Meadows, a Home Science Graduate of Otago University.

The Wellington Boys' Institute Military Band, under the conductorship of Mr. A. Iremonger, will give another of their entertaining and popular concerts this evening.



MADAME CORA MELVIN.

Two popular Auckland artists, whose solos and duets will be a feature of 1YA's programme for October 6.

—Photo, Homer Studio.

The Rev. Angus MacDonald, the secretary of the society, will lecture on "The Sacred Ibis of the Egyptians." Instrumental items on the evening programme will be supplied by the Studio Trio, Mr. Cyril Towsey (pianist), and Mr. Edward V. Johnson (flautist). Mr. Johnson is a new artist to 1YA, and his appearance will be welcomed, particularly by those who enjoy the many delightful solos which are written for the flute. The programme will conclude with a gramophone lecture-recital of the latest recordings.

Gleanings From 2YA.

AN operatic and miscellaneous programme will be given this evening. Miss Jessie Shmith, the noted Australian artist, will sing "Angels Guard Thee," "The Swan," "Obstinat," and "Secrecy." Mr. W. J. Mountjoy, junior, will recite two numbers, "Home, Sweet Home" (by Brewer), and a humorous number, "The Road to Tringamoot." The orchestra, under Signor A. P. Truda, will play items in



MR. NORMAN DAY.

—Photo, G. F. Jenkinson.

SATURDAY

Relay from 1YA.

THIS evening the Municipal Choir concert to be given in the Auckland Town Hall, under the conductorship of Mr. Maughan Barnett, will be relayed, followed by a programme of dance music.

From 2YA.

A CONCERT, which is being held in the Wellington Town Hall to inaugurate the campaign for the installation of radio receiving sets at the Mental Hospital, Porirua, will be broadcast.

This concert will be given in the presence of his Excellency the Governor-General, Lord Bledisloe. The programme will consist of items by the Salon Orchestra, the Melodie Four, Mr. Will Bishop. During the evening speeches will be given by Lord Bledisloe, the Hon. A. J. Stallworthy (Minister of Health), Dr. Gray (Inspector General of Mental Hospitals), and Mr. Hooker (the organiser of the campaign). A feature of this programme will be the items by Reno and Arta, the popular xylophone duo. Following the concert a dance programme will be given from the studio.

3YA Items.

THE OPTIMISTS will be responsible for the programme, and bright and varied it will be. This combination of Christchurch entertainers, who have banded themselves together for the purpose of helping the Y.M.C.A. and other movements, will sing some splendid choruses, quartets, and solo items. Mr. Melville Lawry will be the accompanist. The stirring Scottish song, "Hail Caledonia," will be sung by Miss Kathleen Bond, whose other item will be "The Glory of the Sea." Steel guitar and ukulele items will be played by Miss Elaine Moody's Hawaiian Trio, with vocal refrain by Miss Moody. Popular melodies will also be played by a banjo, banjolin trio, consisting of Misses M. and L. Straw, E. Churchill and Nicholas (accompaniste). The programme will be relayed to 4YA.

Rationalisation

Discussion in Dialogue

AT 7.40 p.m. on Monday, October 6, the first of a series of discussions in dialogue on the subject of "Rationalisation" will be given. The principal in these discussions will be the well-known barrister, Mr. C. A. L. Treadwell, and questions will be submitted by Mr. A. J. Heighway, editor of the "Radio Record." This subject is now occupying an increasingly important part in world affairs and will appeal to all interested in fuller knowledge of world commercial and political trends.

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The band will play the march "Steadfast and True," and the overture "Poet and Peasant" as the opening numbers on the programme. The band will have the assistance of the Lyric Male Voice Quartet in concerted and solo numbers, Miss Monica Malfroy in soprano solos and Mr. Cedric Gardiner, who will contribute two humorous numbers. A pianoforte solo, Beethoven's "Sonata Op. 111," will be played by Miss Glen Carty, L.A.B., F.T.C.L.

From Christchurch.

AT 7.30, Mr. J. M. Scott, B.Sc., of Lincoln College, will speak to farmers on "The Adjustment of Feed Supplies to Animal Members," a talk which has been arranged by the 3YA Primary Productions Committee.

For a classical and miscellaneous programme at 3YA, many well-known artists have been engaged. The Christchurch Broadcasting Trio will supply the orchestral music.

FRIDAY

Topics From Auckland.

AT 7.40 p.m. the first of another series of zoological talks will be given.

keeping with the programme. A relay of a sound film feature showing at the Majestic Theatre will be carried out during the course of the programme.

3YA Notes.

THE Valencia Quartet (Miss Mary Taylor, Miss Lucy Fullwood, Mr. T. G. Rogers, and Mr. E. J. Johnson) will be the vocalist in a bright entertainment. An accomplished accordion player, Mrs. E. Cosgrove, will present a number of popular airs, including the well-known Maori tune, "E Pare Ra."

An interesting feature of the instrumental programme will be the playing of Ganne's "Extase" by a combination of violin, cello, harp, piano, and organ.

Dunedin Features.

THE Friday afternoon talk on "Fashions" will be given by Miss Buccleugh.

A popular concert will be broadcast during the evening, instrumental numbers being provided by Mr. P. J. Palmer (cello), Mr. Max Scherek (pianist), and the 4YA Trio.

Full Programmes for Next

[Copyright.—These programmes are copyright, but individual daily programmes may be published on day of performance.]

Sunday, October 5

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, OCTOBER 5.

- 3.0 : Afternoon session—Selected studio items, including literary selections by the Announcer.
 6.0 : Children's song service, conducted by "Uncle Bert."
 6.55: Relay of divine service from St. Mary's Cathedral. Preacher, Canon William Fancourt. Organist and Choirmaster, Mr. Edgar Randall.
 8.30: (approx.) Selection—J. H. Squire's Celeste Octet, "Mignon," (a) "Introduction et Romance," (b) "Polonaise" (Thomas—arr. Robertson)
 Soprano—Miss Mary Cofield, (a) "Chinese Flower" (Bowers); (b) "Till I Wake" (Woodforde-Finden).
 Instrumental trio—Studio Trio, "Scherzo," from "Trio No. 2, Op. 66."
 Baritone—Mr. Claude H. Suisted, "Drinking Song" (Sullivan).
 Instrumental trio—Studio Trio, "Trio in G Major" (Mozart).
 Soprano—Miss Mary Cofield, "My Heart's Desire" (Clarke).
 Male choir—Don Cossack, "In der Kirche" (Tschaiowsky).
 Instrumental trio—Studio Trio, (a) "Serenade" (Drdla); (b) "Polonaise" (Glinka).
 Baritone—Mr. Claude H. Suisted, (a) "All the Fun of the Fair" (Martin); (b) "Fairings" (Martin).
 Orchestral—Budapest Philharmonic Orchestra, "Rakoczy March."
 9.30: (approx.) God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, OCTOBER 5.

- 3.30 to 4.30: Afternoon session—Selected gramophone records.
 6.0 : Children's song service, conducted by Uncle George, assisted by the children's choir of Thorndon Methodist Church.
 7.0 : Relay of evening service of the Terrace Congregational Church. Preacher, Rev. H. W. Newell. Organist and Choirmaster, Mr. H. Brusey.
 8.15: (approx.) Relay of the Band Recital of the Wellington Municipal Tramways Band from St. James' Theatre (Conductor, Mr. E. Franklin).

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 5.

- 3.0 : Afternoon session—Gramophone recital.
 5.30: Children's Song Service by Children of Methodist Sunday Schools.
 6.15: Chimes from the studio.
 6.30: Relay of Evening Service from St. Alban's Methodist Church, Rugby Street. Preacher, Rev. L. B. Neale. Organiste, Miss Clarice Bell, L.A.B. Choirmaster, Mr. W. Simpson.
 7.45: (approx.) Musical recordings from studio.
 8.0 : Band programme by the Woolston Band (Conductor, R. J. Estall), and assisted by 3YA artists.
 March—Band, "Harlequin" (Rimmer).
 Overture—Band, "Mirella" (Gounod).
 8.12: Baritone—Mr. E. R. Hawker, "Song of the Jersey Roadmaker" (Gaul).
 8.16: Instrumental—Christchurch Broadcasting Trio, (a) "Serenade" (Drigo); (b) "Ye Banks and Braes" (Scottish); (c) "Waltz" from "Sleeping Beauty" (Tschaiowsky).
 8.26: Soprano—Mrs. Jack Mason, (a) "Bells of Gold" (Rae); (b) "I Couldn't, Could I?" (Roeckel).
 8.32: Male choir—Don Cossacks, "Save, O Lord, Thy People."
 8.36: Cornet—Bandsmen Ohlson and Marquet, Polka, "Entre Nous" (with band accompaniment) (Smith).
 8.42: Negro spirituals—Paul Robeson and Lawrence Brown, (a) "Hear de Lam's a cryin'" (arrgd. Brown); (b) "Ezekiel Saw de Wheel."
 8.48: Fantasia—Band, "Sailors' Memories" (Hawkins).
 8.58: Weather report and station notices.
 9.0 : Horn—Bandsman F. Turner, "Cujus Animam" (Rossini).
 9.6 : Baritone—Mr. E. R. Hawker, (a) "The Gay Highway" (Drummond); (b) "The Merry Monk" (Bevan).
 9.12: Hymn—Band, "Lead, Kindly Light" (Sullivan).
 9.17: Male choir—Don Cossacks, "Safeguard, O Lord" (Tschesnokoff).
 9.21: Instrumental—Christchurch Broadcasting Trio, (a) "Pierette" (Chaminade); (b) "Swedish Folk Song" (Svendsen); (c) "Senerata" (Moszkowski).
 9.31: Soprano—Mrs. Jack Mason, "Deep In My Heart," from "Student Prince" (Romberg).
 9.34: Waltz—The Band, "Amazon" (Eltinge).
 March—Band, "Organic" (Scott).
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, OCTOBER 5.

- 3.0 : Chimes. Selected gramophone items.
 5.30: Children's song service, conducted by Big Brother Bill.

- 6.15: Close down.
 6.30: Relay of evening church service from Knox Church. Preacher, Rev. D. O. Herron, M.A. Organist, Mr. C. Roy Spackman.
 7.45: Orchestra Symphonique de Paris, "L'Arlésienne Incidental Music."
 8.5 : Relay of concert by St. Kilda Band from Empire Theatre, Dunedin. Conductor, Mr. James Dixon.
 9.30: God save the King.

Monday, October 6

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, OCTOBER 6.

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES)—MONDAY, OCTOBER 6.

- 3.0 : Chimes. Afternoon session—Selected studio items.
 3.30 and 4.30: Sporting results to hand.
 3.40: Lecturette—Mr. Frank Hilton, "Domestic Cooking."
 5.0 : Children's session, conducted by Uncle Jeff.
 6.0 : Dinner music session.
 Orchestral—Berlin State Opera Orchestra, "Polonaise" (Liszt).
 Violin—Isolde Menges, "Nocturne in E Flat, Op. 9, No. 2" (Chopin).
 6.13: Tacet.
 6.15: Band—H.M. Coldstream Guards, "La Fille de Madame Angot."
 Piano—Mark Hambourg, "Rakoczy March" (Liszt).
 Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music, First Movement" (Mozart).
 6.29: Tacet.
 6.30: Orchestral—John Barbirolli's Chamber Orchestra, "A Little Night Music, Second, Third and Fourth Movements." (Mozart).
 Piano—Mark Hambourg, "On Wings of Song" (Mendelssohn).
 6.44: Tacet.
 6.45: Quartet—Virtuoso String Quartet, "Londonderry Air" (arr. Bridge).
 Violin—Isolde Menges, "Air on G String" (Bach).
 Quartet—Virtuoso String Quartet, "The Emperor Quartet, Op. 76, No. 3" (Haydn).
 6.58: Tacet.
 7.0 : News session, market reports and sports results.
 7.40: Lecturette—Mr. A. J. Heighway, "The Rationalisation of Industry."
 8.0 : Chimes. Relay from St. James' Schoolroom, Lower Hutt, of a concert presented by the Choir of the Methodist Church, Lower Hutt. The choir will be assisted by Miss Evelyn Robinson, contralto; Mr. Wilbur Davies, baritone; Mr. Assheton Harbord, recitalist; Miss Ava Symons and Mr. W. McLean, violinists; the 2YA Orchestra, strina (Conductor, Signor A. P. Truda). Conductor, Mr. Ernest Dawson. Accompanist, Mr. C. R. Horman.
 Overture—2YA Orchestra, "Maritana" (Wallace).
 Part song—The Choir, "Song of the Vikings" (Eaton Faning).
 Baritone—Mr. Wilbur Davies, (a) "Coaling" (Helmere); (b) "Car-goes" (Martin Shaw).
 Part song—The Choir, "Daybreak" (Gaul).
 Violins—Miss Ava Symons and Mr. William McLean, "Sonata in G Minor for Two Violins" (Handel).
 Part song—Ladies of the Choir, "The Snow" (Elgar).
 Character sketch—Mr. Assheton Harbord, "Miser Smallweed."
 Part songs—The Choir, (a) "Killarney" (Balfe); (b) "Annie Laurie."
 Contralto—Miss Evelyn Robinson, (a) "The Sea Hath Its Pearls" (Bairstow); (b) "I Heard Yon Singing" (Coates).
 Chorus and orchestra—The Choir and 2YA Orchestra, "The Challenge of Thor" (Elgar), from "King Olaf."
 From the studio:
 Weather report and announcements.
 Band—H.M. Coldstream Guards, "La Source Ballet."
 Relay from Lower Hutt:
 Selection—2YA Orchestra, "Merrie England" (German).
 Part song—The Choir, "Light" (Claude Haydon).
 Cantata—The Choir, and 2YA Orchestra (Soloist, Mr. Wilbur Davies), "England Expects" (Bath).
 Solo and chorus—The Choir and 2YA Orchestra, "Land of Hope and Glory" (Elgar) (Soloist, Miss Evelyn Robinson).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—MONDAY, OCTOBER 6.

- 3.0 : Afternoon session—Gramophone recital.
 4.25: Sports results.
 5.0 : Children's hour—"Scatterjoy."
 6.0 : Dinner session.

Week-all Stations-to Oct. 12

[Copyright.—These programmes are copyright, but individual daily programmes may be published on day of performance.]

Band—Band of the Garde Republicaine of France, "The Two Pigeons."
(1) Entrance of Tziganes, (2) Scene and March of the Two Pigeons, (3) Hungarian Dance, (4) Theme and Variations.

6.14: Tacet.

6.15: Orchestral—Modern Dance Players, "Over the Waves" (Rosas); "Amouretten Tanze" (Gung'l).

Piano—Gil Dech, "Le Jet D'Eau" (Smith).

Orchestral—Plaza Theatre Orchestra, "A La Gavotte" (Finck).

Trio—Stellar Instrumental Trio, "The Maiden's Prayer" (Badarzewska)

6.28: Tacet.

6.30: Band—H.M. Grenadier Guards, "Fantasia on 17th Century Music, A.D. 1664" (arrgd. Major George Miller).

Saxophone—Rudy Wiedoeft, "Melody" (Dawes).

Orchestral—Continental Novelty Orchestra, "Los Claveles de Sevilla."

6.43: Tacet.

6.45: Orchestral—Continental Novelty Orchestra, "Las Lagarteranas."

Instrumental—Squire's Celeste Octet, "Come Into the Garden, Maud" (Balfe—arrgd. Sear); "Killarney" (Balfe—arrgd. Sear).

Organ—Terence Casey, "I'm Lonely" (Coates).

Orchestral—Plaza Theatre Orchestra, "Minuet" (Finck).

6.59: Tacet.

7.0: News session.

7.40: Talk—Dr. H. T. J. Thacker, "Why Health Week is Necessary."

8.0: Chimes. Relay of programme by Timaru Orchestral Society from Theatre Royal, Timaru. Hon. Conductor, Mr. F. J. Hyde. Leader of Orchestra, Mr. Inglis Todd, L.A.B.

National Anthem.

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AUCKLAND

CHRISTCHURCH

WELLINGTON.

March—Orchestra, "Quick March" (Boccaccio) (Suppe).
Symphony—Orchestra, "Unfinished Symphony" (Schubert).
Suite—Orchestra, "L'Arlesienne" (Bizet): (a) "Prelude," (b) "Minuetto," (c) "Adagietto," (d) "Carillon."
March—Orchestra, "Hungarian March" (Berlioz).
Orchestra, "Dance Macabre" (Saint Saens).
Harp—Mr. H. G. Glaysher, (a) "Upon the Seashore" (Oberthur); (b) "The Prison Scene," from "Trovatore" (Verdi).
Fantasia—Orchestra, "Carmen Fantasia" (Bizet-Corbin).
Orchestra—"Overture to Martha" (Von Flotow).
God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, OCTOBER 6.

3.0: Chimes. Selected gramophone items.

4.25: Sporting results.

5.0: Chimes. Children's hour, conducted by Big Brother Bill.

6.0: Dinner music.

Selection—Edith Lorand Orchestra, "La Boheme" (Puccini).

Waltz—Edith Lorand Orchestra, "La Serenade" (Metra).

Violin—Tossy Spiwakowsky, "Turkish March" (Beethoven).

6.12: Tacet.

6.15: Waltz—Edith Lorand Orchestra, "Venetian Barcarolle" (Leoncavallo).

Trio—Dajos Bela Trio, (a) "Traumerei" (Schumann); (b) "Chant D'Automne" (Tschalkowsky).

'Cello—Gregor Platowsky, "The Swan" (Saint-Saens).

6.28: Tacet.

6.30: Edith Lorand's Orchestra, (a) "Minuet" (Boccherini); (b) "Toreador and Andalous" (Rubinstein).

Waltzes—Royal Music Makers, (a) "Kiss Me Again" (Herbert); (b) "Ah, Sweet Mystery of Life" (Herbert).

6.44: Tacet.

6.45: Suite—Paris Opera Comique Orchestra, "Ballet Egyptien" (Luigini).

6.57: Tacet.

7.0: News session.

7.40: Talk—Under auspices of W.E.A.

8.0: Relay of Royal Dunedin Male Choir Concert from Dunedin Town Hall.

Conductor, Dr. V. E. Galway. Pianist, Mr. Charles Martin, L.A.B.

Soloists, Messrs. E. W. Robbins (tenor) and C. S. Hawes (baritone).

The programme will include: "In Picardie" (Ditson); "Hymn to Music" (Ferguson); "Down Among the Dead Men" (Davies);

"Pilgrims' Chorus," from "Tannhauser" (Wagner) (Soloists in the

above chorus, Miss Eva Scott and Mr. J. D. McKechnie); "Twilight" (Hatton). Traditional Sea Chanties: "Roving" (Sampson);

"Clear the Deck, Let the Bull give Run" (Sampson).

10.0: God save the King

Tuesday, October 7

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, OCTOBER 7.

3.0: Afternoon session, selected studio items, including Literary selection by the Announcer.

3.15: Talk—Mrs. Les Crane—Beauty of Mind and Body in relation to Diet."

3.30: Further selected studio items.

5.0: Children's session, conducted by Uncle Dave.

6.0: Dinner session.

Orchestral—Marek Weber and Orchestra, "Beggar Student."

Orchestral—Philadelphia Symphony Orchestra, "Entr'acte Act. 4" from "Carmen" (Bizet).

Piano—Wilhelm Backhaus, "Bohemian Dance" (Smetana).

6.18: Tacet.

6.15: Band—H.M. Coldstream Guards, "Der Freischutz" Overture (Weber)

Orchestral—Philadelphia Symphony Orchestra, "Soldiers Changing the Guard" (Bizet).

Orchestral—Marek Weber and Orchestra, "Rustle of Spring."

6.28: Tacet.

6.30: Orchestral—New Symphony Orchestra, "Neil Gwynn Dances Nos. 1 and 2" (Edward German).

Orchestral—Philadelphia Symphony Orchestra, "March of the Smugglers" from "Carmen" (Bizet).

Piano—Wilhelm Backhaus, "Caprice Espagnole" (Moszkowski).

6.45: Orchestral—Marek Weber and Orchestra, "My Darling Waltz."

Band—National Military Band, "Flying Dutchman Overture."

Orchestral—Philadelphia Symphony Orchestra, "Entr'acte Act 1" from "Carmen" (Bizet).

6.58: Tacet.

7.0: News and information, market reports.

7.40: Talk—Mr. Rod Talbot, "Motoring."

- 8.0 : Chimes.
Overture—Band of H.M. Coldstream Guards, "Poet and Peasant."
- 8.9 : Soprano—Madame Dorothy Cronin, "Senta's Ballad" from "Flying Dutchman" (Wagner).
- 8.14 : Overture—1YA String Octet, under direction Mr. J. Whitford Waugh, "Seminamide" (Rossini).
- 8.25 : Lecture-recital—Mrs. Daisy Basham, assisted by Mr. Len Barnes, "Rossini."
- 8.40 : Orchestral—1YA String Octet, (a) "Serenade" (Tosti); (b) "Danse Russe Trepak" (Tschalkowsky).
- 8.47 : Talk—Mr. A. B. Chappell, M.A. "Topical Talk."
- 9.4 : Evening weather forecast and announcements.
- 9.4 : Overture—1YA String Octet, "Barber of Seville" (Rossini).
- 9.14 : Soprano—Madame Dorothy Cronin, (a) "When Love Knocked Upon the Door" from "Cairo" (Fletcher); (b) "The Mirror Song" from "The Last Waltz" (Oscar Strauss).
- 9.20 : Lecture-recital—Mrs. Daisy Basham, assisted by Mr. Len Barnes, "Rossini."
- 9.35 : Orchestral—1YA String Octet, "Reverie Du Soir" (Saint Saens).
- 9.41 : Chorus—Light Opera Company, "Lilac Time Vocal Gems."
- 9.49 : Orchestral—1YA String Octet, "Ballet Music" from "William Tell."
- 10.1 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, OCTOBER 7.

- 3.0 : Chimes. Afternoon session.—Selected studio items.
- 3.30 and 4.30 : Sporting results to hand.
- 5.0 : Children's session, conducted by Big Brother Jack, assisted by pupils of Miss Marjorie King.
- 6.0 : Dinner music session.
Selection—H.M. Grenadier Guards Band, "New Sullivan Selection."
Waltz—Court Symphony Orchestra, "Destiny Waltz" (Baynes).
- 6.12 : Tacet.
- 6.15 : Orchestral—Columbia Symphony Orchestra, "Idilio" (Lack).
Suit—New Queen's Hall Light Orchestra, "Petite Suite De Concert" (Coleridge-Taylor): 1. La Caprice de Nanette; 2. Demande et Response.
- 6.26 : Tacet.
- 6.30 : Suite—New Queen's Hall Light Orchestra, "Petite Suite De Concert" (Coleridge-Taylor): 1. Un Sonnet d'amour; 2. La Tarantelle Fretillante.
Wurlitzer organ solo—Terence Casey, "I'm Lonely" (Coates).
- 6.42 : Tacet.
- 6.45 : Dance Suite—H.M. Grenadier Guards Band, "Nell Gwynn Dances" (German), 1. Country Dance. 2. Pastoral Dance.
Orchestral—Columbia Symphony Orchestra, "Spring Song."
Waltz—Symphony Orchestra, "Morgen Blatter" (Strauss).
- 6.58 : Tacet.
- 7.0 : News session, market reports and sports results.
- 7.40 : Lecturette—Representative, Agricultural Department, "For the Man on the Land."
- 8.0 : Chimes.
Overture—2YA Salon Orchestra, (Conductor Mr. M. T. Dixon) "The Student Prince" (Romberg).
- 8.9 : Soprano—Miss Phyllis Leighton, (a) "Bring Me a Rose"; (b) "The Girl With the Brogue" (from "The Arcadians") (Monckton).
- 8.16 : Banjo Trio—Mrs. Mildred Kenny's Banjo Trio, (a) "Sleepy Valley" (Hanley); (b) "If I'm Dreaming" (Burke).
- 8.23 : Bass—Mr. R. J. G. Madigan, "Molly Brannigan" (Stanford).
- 8.27 : Piano and Strings—Mr. M. T. Dixon and 2YA Salon Orchestra, "Sater-jintens Sontag" (Bull, arrgd. Binding).
- 8.35 : Humour—Mr. Len Ashton, "Drake is Going to Sea."
- 8.41 : Popular songs at the piano—Mr. Billy Hart, (a) "I'll Remember You From Somewhere" (Warren); (b) "One Never Kinws" (Dolan); (c) "The Latest Popular Song Hit."
- 8.51 : Selection—2YA Salon Orchestra, "Request Item."
- 8.59 : Weather report and announcements.
- 9.1 : Soprano—Miss Phyllis Leighton, "Love Your Spell Is Everywhere."
- 9.5 : Suite—2YA Salon Orchestra, "Enfant Prodigue" (Wormser).
- 9.13 : Humour—Mr. Len Ashton, "Like the Big Pots Do" (Handley).
- 9.19 : Banjo trio—Mrs. Mildred Kenny's Banjo Trio, (a) "I Want To Be Happy" (Youmans); (b) "Lazy Louisiana Moon" (Donaldson).
- 9.25 : Bass—Mr. R. J. G. Madigan, "The Beggar's Song" (Lane Wilson).
- 9.29 : Selection—2YA Salon Orchestra, "Serenade" (Widor).
- 9.34 : Dance programme.
One-step—Jack Hylton and His Orchestra, "Moscow" (Evans).
Foxtrots—Jack Hylton and His Orchestra, "My Wife is on a Diet."
The High Hatters, "The Web of Love" (Cowan Titsworth)
Charles Dornberger and His Orchestra, "Campus Capers."
Johnny Hamp's Kentucky Serenaders, "Sunny Side Up."
The High Hatters, "I'm In Love With You."
- 9.48 : Waltzes.—The Troubadours, "Alice Blue Gown" (McCarthy-Tierney).
Nat Shilkret and His Orchestra, "Dream Love."
Nat Shilkret and His Orchestra, "Broadway Baby Dolls."
Nat Shilkret and His Orchestra, "You Wouldn't Fool Me, Would You" (De Sylva, Brown, Henderson).
Rudy Vallee and His Connecticut Yankees, "A Little Kiss Each Morning" (Woods).
Henry Bussee and His Orchestra, "After the Clouds Roll By" (Clare-Levant).
- 10.15 : Waltzes—Nat Shilkret and Orchestra, "Until the End."

- Jack Hylton and His Orchestra, "Tondeleyo" (Gay).
Foxtrots—Leo Reisman and His Orchestra, "My Sweeter Than Sweet."
Nat Shilkret and His Orchestra, "Wishing and Waiting for Love" (Clarke-Akst).
- 10.30 : Foxtrots—Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
The High Hatters, "Aren't We All" (de Sylva).
Jack Hylton and His Orchestra, "On Her Doorstep Last Night" (Hargreaves, Damerall, Tilsley).
The High Hatters, "You've Got Me Picking Petals Off of Daisies" (de Sylva, Brown, Henderson).
- 10.45 : Waltz —The Troubadours, "Beautiful Lady" (McLennan-Caryll).
Foxtrots—The High Hatters, "Nobody's Using It Now."
Johnny Johnson and His Orchestra, "Just You, Just Me"
Waltz —Nat Shilkret and Orchestra, "Love Me."
Foxtrots—Jack Hylton and His Orchestra, "Yours Sincerely."
The High Hatters, "My Love Parade."
Ten Weems and His Orchestra, "Sophomore Prom."
Johnny Johnson and His Statler Pennsylvanians, "You're Responsible" (Clare-Levant).
Ted Weems and His Orchestra, "I Don't Want Your Kisses" (If I Can't Have Your Love) (Fisher-Broomes).
- 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, OCTOBER 7.

SILENT DAY.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, OCTOBER 7.

- 3.0 : Chimes. Selected gramophone items.
- 4.25 : Sporting results.
- 5.0 : Chimes. Children's hour, conducted by Uncle Bert.
- 6.0 : Dinner music.
Orchestral—New Symphony Orchestra, "Minuet" (Boccherini).
Orchestral—Nat Shilkret and the Salon Group, "Stephen Foster Melodies" ("Old Kentucky Home") (Foster).
Band—H.M. Coldstream Guards, "Wee MacGregor's Patrol" (Amers).
- 6.13 : Tacet.
- 6.15 : Orchestral—De Groot and His Orchestra, "Waldteufel Memories."
Band—H.M. Coldstream Guards, "Policeman's Holiday" (Ewing).
Organ—Jesse Crawford, "I Get the Blues When it Rains."
- 6.29 : Tacet.
- 6.30 : Band—H.M. Coldstream Guards, "Belle of New York" (Kerker).
Cello—Beatrice Harrison, "Viennese Melody" (Kreisler).
Orchestral—Nat Shilkret and the Salon Group, "Stephen Foster Melodies" ("Old Black Joe") (Foster).
- 6.43 : Tacet.
- 6.45 : Orchestral—New Symphony Orchestra, "Nell Gwynn Dances, No. 3."
Organ—Jesse Crawford, "I'll Always be in Love with You."
Band—H.M. Coldstream Guards, "Geisha" Selection (Jones).
Orchestral—Salon Orchestra, "Wedding of the Painted Doll."
- 6.58 : Tacet.
- 7.0 : News session.
- 8.0 : Chimes. Programme of music to be rendered by St. Kilda Band, under the direction of Mr. James Dixon.
March—The Band, "One of the Best" (Rimmer).
Cornet—The Band, "Abide With Me" (Liddle).
- 8.14 : Soprano—Miss P. West, (a) "Four-Leaf Clover" (Brownell); (b) "Prince Charming" (Lehmann).
- 8.20 : Male quartet—Cathedral Male Voice Quartet, (a) "Low Lands"; (b) "Highland Laddie" (arrgd. Harris).
- 8.24 : Waltz—The Band, "Song D'Ete" (Thurban).
- 8.32 : Recital—Miss Marion Webster, "Bannerman of the Dandenong."
- 8.36 : Tenor—Mr. James Simpson, "There is a Flower that Bloometh."
- 8.40 : Balalaika orchestra—Kiriloff's Balalaika Orchestra, "Medley of Old-time Songs" (arrgt.).
- 8.46 : Selection—The Band, "Gold Diggers of Broadway" (Burke).
- 8.57 : Humorous medley—Mr. James A. Paterson, "The Musical Barbe."
- 9.2 : Weather report.
- 9.4 : Orchestral—Nat Shilkret's Orchestra, "Stephen Foster Melodies."
- 9.12 : Soprano—Miss P. West, "Serenade" (Schott).
- 9.16 : Selection—The Band, "Four Indian Love Lyrics" (Woode-Finden).
- 9.32 : Recital—Miss Marion Webster, (a) "Greetings" (Parker); (b) "Little Tan Shoes" (Anon.)
- 9.38 : Tenor—Mr. James Simpson, "Ah, Moon of My Delight" (Lehmann).
- 9.44 : Dance—The Band, "Laughing Marionette" (Collins).
- 9.52 : Scotch humour—Mr. James A. Paterson, (a) "I Know a Lassie Out In Ohio" (Lander); (b) "Twenty Thousand Scotchmen" (Western).
- 9.58 : March—The Band, "Constellation" (Clark).
- 10.4 : God save the King.

Wednesday, October 8

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, OCTOBER 8.

- 3.0 : Afternoon session—Selected studio items, including literary selection by the Announcer.
- 5.0 : Children's session, conducted by "Uncle Tom."
- 6.0 : Dinner session.

- March—U.S. Army Band, "Army and Marine" (Starke).
 Selection—Piccadilly Orchestra, "The Waltz Dream" (Strauss).
 Jack Hylton's Orchestra, "My Inspiration is You" (Nicholls).
 6.12: Tacet.
 6.15: Royal Opera Orchestra, "Sylvia Ballet—Prelude" (Delibes).
 Royal Opera Orchestra, "Sylvia Ballet—Intermezzo" (Delibes).
 Salon Orchestra, "Chanson Boheme," (Boldi).
 6.27: Tacet.
 6.30: Jack Hylton's Orchestra, "A Room with a View" (Coward).
 Salon Orchestra, "Aloha Sunset Land" (Kawelo).
 March—San Francisco Symphony Orchestra, "Marche Militaire."
 6.42: Tacet.
 6.45: Detroit Symphony Orchestra, "Spanish Rhapsody" (Chabrier).
 Organ—Arthur Meale, "Neath the Desert Moon" (Ewing).
 March—U.S. Army Band, "American Spirit" (Buglione).
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. Norman Kerr, "Physical Culture."
 8.0: Chimes.
 Overture—Edith Lorand Orchestra, "Johann Strauss Fantasia."
 8.9: Duo—Misses Edna and Phyllis Tye, (a) mezzo-soprano solo, "Mummy's Little Fella" (Austin); (b) "pianoforte solo, "Dance D'Ola!"
 8.17: Trio—Studio Trio, "Norwegian Dances" (Grieg).
 8.25: Baritone—Mr. Frank Campbell, (a) "Country Folk" (Brahe); (b) "In an Old-Fashioned Town" (Squire).
 8.32: Hawaiian—Barry Ingall's Hawaiian Quartet, "Laugin' Rag" (Moore); (b) "Aloha-oe" (Lilluokalani).
 8.40: Elocution—Miss Nina Scott, "Some Boys 'As Got Muvvers" (Stevens).
 8.47: Trio—Studio Trio, (a) "Simple Aveu" (Elgar).
 Violin—Mr. J. Whitford Waugh, (b) "The Swan" (Saint Saens).
 Trio—Studio Trio, (c) "Rustle of Spring" (Sinding).
 9.0: Evening weather forecast and announcements.
 9.2: Descriptive—Band of H.M. Grenadier Guards, "Voyage in a Troopship."
 9.10: Duo—Misses Edna and Phyllis Tye, (a) mezzo-soprano solo, "Happy Song" (Del Riego); (b) pianoforte solo, "Valse Op. 64, No. 2" (Chopin); (c) mezzo-soprano solo, "Open Thy Blue Eyes."
 9.22: Hawaiian—Barry Ingall's Hawaiian Quartet, (a) "Happy Days Are Here Again" (Ager); (b) "Souvenir D'Hawaii."
 9.30: Baritone—Mr. Frank Campbell, "If I Might Only Come to You."
 9.34: Trio—Studio trio, (a) "Un Peu D'Amour" (Silesu); (b) "Souvenir."
 9.44: Elocution—Miss Nina Scott, recital, "Tired Mothers" (Blascheck).
 9.48: Hawaiian—Barry Ingall's Hawaiian Quartet, (a) "Southern Seas Lament" (own arrgt.); (b) "Repasz March" (arr. Sweeley).
 9.56: Orchestral—Frank Westfield's Orchestra, "Classica Potpourri."
 10.0: God save the King.

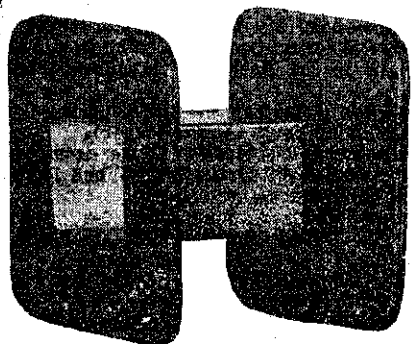
2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, OCTOBER 8.

- 8.0: Chimes.
 8.1: Results of the By-Elections for the Waipawa and Western Maori Electorates, interspersed with recorded items from the studio.
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, OCTOBER 8.

- 3.0: Afternoon session—Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour, conducted by "Uncle John."
 6.0: Dinner music.
 Orchestra—Orchestre Symphonique de Paris, "L'Arlesienne Suite" (Bizet); (1) Prelude, (2) Entr'acte—Pastorale, L'Etang de Vaccarses, (3) Choeurs—Suivant la Pastorale.
 6.12: Tacet.
 6.15: Selection—Columbia Symphony Orchestra, "Faust" (Gounod).
 Violin—Toscha Seidel, "Chanson Arabe" (Rimsky-Korsakov).

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- 6.27: Tacet.
 6.30: Orchestral—Orchestre Symphonique de Paris, "L'Arlesienne": (1) La Cuisine de Castelet, (2) Minnetto, (3) Le Carillon, (4) Adagietto.
 6.42: Tacet.
 6.45: Orchestral—Orchestre Symphonique de Paris, "Farandole," from "L'Arlesienne" (Bizet).
 Band—Band Garde Republicaine de France, "Carmen" Entr'acte.
 6.56: Tacet.
 7.0: News session.
 7.30: Adding Stock Market Reports.
 8.0: Chimes. Operatic and miscellaneous programme.
 Overture—National Symphony Orchestra, "Martha" (Flowtow).
 8.9: Bass—Mr. Finlay Robb, (a) "Eldorado" (Walthew); (b) "Just Her Way" (Aitken).
 8.14: Flute—Mr. W. Hay, "Romance" (Durand).
 8.19: Soprano—Mrs. B. Sluis, (a) "June Rapture" (Liza Lehmann); (b) "Lovers in the Lane," from "The Life of a Rose" (Liza Lehmann).
 8.22: Chorus—Orchestre Symphonique and Chorus, "Here They Come," from "Carmen" (Bizet).
 8.25: Instrumental—Studio Octet (Conductor, Mr. Harold Beck), "La Dame Blanche" (Boieldieu).
 8.33: Recitation—Mr. Harold Shaw, "Claude Melnotte's Defence," from "Lady of Lyons" (Lord Lytton).
 8.38: Orchestra and chorus—Light Opera Company, Gems from "The Bohemian Girl" (Balfe).



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- 8.46: Tenor—Mr. Sydney Andrews, (a) "Serenade" (Tchaikowsky); (b) "On a Summer's Day" (Engelhardt).
 8.52: Instrumental—Studio Octet, (a) "Gipsy Song" from "Carmen" (Bizet); (b) "Intermezzo," from "Cavalleria Rusticana" (Mascagni); (c) "Waltz of the Flowers" (Tchaikowsky).
 9.0: Weather report and station notices.
 9.2: Band—Garde Republicaine, "Entr'acte" from "Carmen" (Bizet).
 9.10: Bass—Mr. Finlay Robb, (a) "O, Soft was the Song" (Elgar); (b) "The Ship of Rio" (Whittaker).
 9.17: Flute—Mr. W. Hay, "Serenade" (Wilcocks).
 9.21: Soprano—Mrs. B. Suis, (a) "Love's Lament" (Michael Head); (b) "Columbine's Garden" (Besley).
 9.27: Cello with orchestra—Harold Beck and Instrumental Octet, "O, Star of Eve" (Wagner—arrgd. Beck).
 9.34: Recitations—Mr. Harold Shaw, (a) "St. Brendan" (Ernest Rhys); (b) "Bredon Hill" (Housman).
 9.42: Instrumental—Studio Octet, "Ballet Music from 'Faust'" (Gounod).
 9.50: Tenor—Mr. Syd. Andrews, "Melisande in the Wood" (Goetz).
 9.54: Instrumental—Studio Octet, (a) "Street in Algiers" (Ansell); (b) "Chansonette" (Hope).
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, OCTOBER 3.

- 3.0: Chimes. Selected gramophone items.
 3.15: Lecturette—"Budgeting for the Home." Talk prepared by Home Science Department of Otago University, under auspices of 4YA Primary Productions Committee.
 4.25: Sporting results.
 5.0: Chimes. Children's Hour, conducted by Big Brother Bill.
 6.0: Dinner session.
 Waltz—International Concert Orchestra, "Over the Waves" (Rosas).
 Orchestral—Paul Whiteman and His Orchestra, "High Water."
 Hawaiian—Hilo Hawaiian Orchestra, "My Hula Love" (Kealakai).
 Orchestral—Zonophone Salon Orchestra, "Simple Aveu" (Thome).
 6.13: Tacet.
 6.15: Orchestral—Paul Whiteman and His Orchestra, "Mississippi" Suite.
 Organ—Edward O'Henry, "Chant Sans Paroles" (Tchaikowsky).
 Orchestral—Zonophone Salon Orchestra, "Narcissus" (Nevin).
 6.29: Tacet.
 6.30: Waltz—International Concert Orchestra, "Danube Waves."
 Hawaiian—Hilo Hawaiian Orchestra, "Kawaihau Waltz."
 Orchestral—Paul Whiteman and His Orchestra, "Caprice Futuristic."
 Organ—Edward O'Henry, "Ca C'est Madrid" (O'Henry).
 6.44: Tacet.
 6.45: Orchestral—Hylton's Orchestra, "Good Old Songs" Selection.
 Orchestral—International Concert Orchestra, "Barcarolle" (From Tales of Hoffman) (Offenbach).
 Orchestral—New Light Symphony Orchestra, "Cavalleria Rusticana."
 6.59: Tacet.
 7.0: News session.
 7.15: Talk—L. W. McCaskill, under auspices of 4YA Primary Productions Committee, "Review of Journal of Agriculture."
 8.0: Chimes.
 Herman Finck's Orchestra, "Gaiety Echoes" (Monckton).
 8.9: Studio Concert by the "Optimists" Concert Party, entitled "We Want to be Happy."
 9.30: Dance session.
 Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Moaning For You" (Goulding-Dougherty).
 Roger Wolfe Kahn and His Orchestra, "Without a Song."
 Colonial Club Orchestra, "It's You I Love."
 Lloyd Huntley and His Isle o' Blues Orchestra, "Alone in the Rain" (Goulding-Dougherty).
 Colonial Club Orchestra, "Why?"
 9.45: Duet—Billy Murray and Walter Scanlan, "Shut the Door."
 Foxtrots—The A and P Gypsies, "South Sea Rose" (Gilbert-Baer).
 Roger Wolfe Kahn and His Orchestra, "Great Day."
 The A and P Gypsies, "Only the Girl" (Ruby Jerome).
 9.57: Waltz—Hal Kemp and His Orchestra, "Romance."
 Foxtrots—Herman Waldman and His Orchestra, "Marbles."
 Hal Kemp and His Orchestra, "Navy Blues."
 Benny Meroff and His Orchestra, "The Talk of the Town."
 Colonial Club Orchestra, "March of the Old Guard" (Marcha de la Guardia Vieja) (Grey-Stothart).
 10.12: Vocal—Frances Williams, "Bigger and Better Than Ever."
 Foxtrots—Colonial Club Orchestra, "Sweetheart We Need Each Other" (McCarthy-Tierney).
 Herman Waldman and His Orchestra, "Waiting."
 Ben Bernie and His Orchestra, "What Is This Thing Called Love?" (Cole-Porter).
 10.24: Waltz—Regent Club Orchestra, "You're Always in My Arms."
 Foxtrots—Ray Miller and His Orchestra, "Funny Dear, What Love Can Do" (Bennett-Little-Straight).
 Benny Meroff and His Orchestra, "Happy Days Are Here Again" (Ager-Yellen).
 Ray Miller and His Orchestra, "Finesse" (Maltin Doll).
 10.36: Duet—Billy Murray and Walter Scanlan, "Sergeant Flagg and Sergeant Quirt" (Klein-Moll).
 Foxtrots—Colonial Club Orchestra, "Charming" (Grey-Stothart).
 Ben Bernie and His Orchestra, "She's Such a Comfort To Me" (Furber-Parsons).

- 10.48: Waltz—Lloyd Huntley and His Isle o' Blues Orchestra, "Molly."
 Foxtrots—Ray Miller and His Orchestra, "My Victory."
 Al Goodman and His Orchestra, "M-A-R-Y."
 Ray Miller and His Orchestra, "Blue Butterfly" (Tucker-Schuster).
 Al Goodman and His Orchestra, "Lonesome Little Doll."
 11.0: God save the King.

Thursday, October 9

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, OCTOBER 9.

- 3.0: Afternoon session—Selected studio items, including Literary Selection by the Announcer.
 3.15: Lecturette—"Salads." Talk prepared by Home Science Extension Service, Otago University.
 3.30: Further selected studio items.
 5.0: Children's session, conducted by "Peter Pan."
 6.0: Dinner session.
 Orchestral—Brunswick Concert Orchestra, "Dance of the Hours."
 Orchestral—A. and P. Gypsies, "Herbertiana" (Stone).
 Violin—Frederic Fradkin, "Le Cygne" (Saint-Saens) (4528).
 Orchestral—Brunswick Concert Orchestra, "Badinage" (Herbert).
 Orchestral—A. and P. Gypsies, "The Far-Away Bells" (Furber-Gordon).
 6.14: Tacet.
 6.15: Orchestral—Brunswick Concert Orchestra, "Wine, Women and Song."
 Orchestral—Anglo-Persians, "Cossack Love Song" (Katzman).
 Violin—Frederic Fradkin, "Nola" (Arndt).
 Orchestral—Ray Miller and His Orchestra, "Iowa Corn Song."
 6.28: Tacet.
 6.30: Orchestral—A. and P. Gypsies, (a) "White Acacia"; (b) "Petite Causerie" (Stone).
 Orchestral—Brunswick Concert Orchestra, "Thousand and One Nights."
 Orchestral—A. and P. Gypsies, "Simple Confession" (Thome).
 Orchestral—Ray Miller and His Orchestra, "Go You North-western."
 6.43: Tacet.
 6.45: Orchestral—Brunswick Concert Orchestra, "La Danseuse" (Von Blon).
 Orchestral—Brunswick Concert Orchestra, "Hungarian Lustspiel."
 Violin—Frederic Fradkin, "A Kiss in the Dark" (de Sylva).
 Orchestral—Anglo-Persians, "Ragamuffin" (Greer).
 6.58: Tacet.
 7.0: News and market reports.
 7.40: Talk—Mr. N. M. Richmond, "Problems of Capital and Labour."
 8.0: Chimes.
 Orchestral—1YA String Octet, under direction Mr. J. Whitford Waugh, "Russkay I Trepak" (Rubenstein).
 8.9: Novelty—Mister Ree, "Radio Magic."
 8.24: Soprano—Madame Cora Melvin, (a) "Annie Laurie" (Lehmann); (b) "I Hear a Thrush at Eve" (Cadman).
 8.31: Violin duet—Messrs. Haydn Murray and Frank Parsons, (a) "Duet for Two Violins" (Spohr).
 Orchestral—1YA String Octet, (b) "Tancredi" (Rossini).
 8.42: Duet—Madame Cora Melvin and Mr. Norman Day, "I Did not Know."
 8.46: Humour—Mr. Owen Pritchard, "Phuniosities, Part 1."
 8.51: Orchestral—1YA String Octet, (a) "Serenade" (Chaminade); (b) "Yearning" from "Love Poem" (Schoefield).
 9.1: Evening weather forecast and announcements.
 9.3: Duet—Madame Cora Melvin and Mr. Norman Day, "I'll Sing to You."
 9.7: Orchestral—1YA String Octet, (a) "Longing all the While" waltz (Payan); (b) "Chicken Reel" (Daly).
 9.14: Baritone—Mr. Norman Day, (a) "Beware of the Maidens" (Day); (b) "Song of the Bow" (Aylward).
 9.21: Orchestral—1YA String Octet, (a) "Londonderry Air" (O'Connor-Morris); (b) "Carnival, Op. 17, No. 2" (Malt).
 9.27: Humour—Mr. Owen Pritchard, "Phuniosities, Part 2."
 9.32: Programme of Dance Music from the Studio until 11 p.m.
 Foxtrots—Tom Clines and His Music, "Miss Wonderful."
 Roger Wolfe Kahn and His Orchestra, "Cooking Breakfast for the One I Love" (Rose-Tobias).
 Tom Clines and His Music, "Somebody Mighty Like X."
 Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "You Can't Believe My Eyes" (Bryan-Meyer).
 Abe Lyman and His California Orchestra, "The Rogue Song."
 9.45: Vocal—Dick Robertson, "Singin' in the Bathtub" (Magidson-Washington-Cleary).
 Foxtrots—Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "If I Can't Have You" (Bryan-Meyer).
 Isham Jones' Orchestra, "Nina Rosa" (Caesar-Romberg).
 Abel Lyman and His California Orchestra, "When I'm Looking at You" (Grey-Stothart).
 Waltz—Isham Jones' Orchestra, "Your Smiles, Your Tears."
 10.0: Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad-Mitchell-Gottler).
 Jack Denny and His Mount Royal Hotel Orchestra, "Beside an Open Fireplace" (Denniker-Osborne).
 Jack Denny and His Mount Royal Hotel Orchestra, "Hangin' on the Garden Gate" (Kahn-Florito).
 Jack Denny and His Mount Royal Hotel Orchestra, "Just Can't be Bothered With Me" (Kahn-Simons).
 10.12: Vocal—Belle Baker, "I'm Walking with the Moonbeams."
 Foxtrots—Roger Wolfe Kahn and His Orchestra, "When a Woman Loves a Man" (Rose-Rainger).

- Bob Haring and His Orchestra, "Do Ya' Love Me?"
Waltz—Carter's Orchestra, "California Sunshine" (Ford-Earl).
10.24: Foxtrots—Bob Haring and His Orchestra, "Where you Are."
Ben Bernie and His Orchestra, "West Wind."
The A. and P. Gypsies, "Gypsy Dream Rose."
Colonial Club Orchestra, "Why Do You Suppose."
Bob Haring and His Orchestra, "Under a Texas Moon."
10.39: Vocal—Dick Robertson, "Lady Luck" (Perkins).
Foxtrots—Colonial Club Orchestra, "My Man is on the Make."
Ben Bernie and His Orchestra, "The One Girl" (Youmans).
Waltz—Carter's Orchestra, "Old Virginia Moon" (Crawford-Kahn).
Foxtrots—Abe Lyman and His California Orchestra, "Lucky Me Loveable You" (Yellen-Ager).
Fred Hamm and His Orchestra, "We Love Us."
Abe Lyman and His California Orchestra, "Love Ain't Nothin' But the Blues" (Goodwin-Alter).
11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, OCTOBER 9.

- 3.0 : Chimes, selected studio items.
3.15: Lecturette—Miss I. F. Meadows, "Salads." Talk prepared by the Home Science Extension Department of Otago University.
3.25: Selected studio items.
3.30 and 4.30: Sporting results to hand.
4.55: Close down.
5.0 : Children's session, conducted by Uncle George, assisted by pupils of Miss Helen Gardener.
6.0 : Dinner music session.
Orchestral—Charles Ancliffe and His Orchestra, "Ancliffe Waltzes" Selection. (Ancliffe).
Octet—J. H. Squire's Celeste Octet, "Twilight on the Waters."
Orchestral—Gil Dech Ensemble, "Italian Nights" (Roberts).
6.14: Tacet.
6.15: Orchestral—Regal Cinema Orchestra, "Sally Selection" (Burke-Kern).
Organ—Quentin Maclean, "Lily of Laguna" (Leslie Stuart).
Octet—J. H. Squire's Celeste Octet, "Minuet Sicilienne."
6.28: Tacet.
6.30: Orchestral—Debroy Somers Band, "Mister Cinders" Selection.
Octet—J. H. Squire's Celeste Octet, "The Piccanninnies' Picnic."
Organ—Quentin Maclean, "Little Dolly Daydream" (Leslie Stuart).
6.43: Tacet.
6.45: Orchestral—Albert W. Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures" (Ketelbey).
Octet—J. H. Squire's Celeste Octet, "Minuet in D."
Orchestral—Albert W. Ketelbey's Concert Orchestra, "Wedgwood Blue" (Ketelbey).
Orchestral—Gil Dech Ensemble, "Valse Parisienne."
6.58: Tacet.
7.0 : News session, market reports and sports results.
7.40: Lecturette—Mr. A. E. Wilson, Tourist Department, "Tourist and Holiday Resorts."
8.0 : Chimes. A Studio Concert by the Wellington Boys' Institute Military Band (Conductor Mr. A. Iremonger) assisted by 2YA Artists.
March—Band, "Steadfast and True" (Telke).
Overture—Band, "Poet and Peasant" (Suppe).
8.13: Quartet—The Lyric, "Calm is the Sea" (Pfeil).
8.17: Tenor—Mr. Chas. Williams, "Eleanore" (Coleridge-Taylor).
8.21: Organ—Terence Casey, "Crazy Pirouette" (Frisk).
8.24: Humour—Mr. Cedric Gardiner, "When The Road's Up It's Up."
8.30: Selection—Band, "Recollections of Verdi" (Rimmer).
8.40: Soprano—Miss Monica Malfroy, (a) "I Know a Bank" (Martin Shaw); (b) "Fragile Things" (Phillips).
8.46: Duet—Messrs. Chas. Williams and Will Goudie, "The Ballad Singers."
8.50: Orchestral—Russian Novelty Orchestra, "Greetings of Spring."
8.53: Bass—Mr. W. Binet Brown, "Time To Go" (Sanderson).
8.57: Selection—Band, "Melody of Love" (Engelmann).
9.0 : Weather report and announcements.
9.2 : Tenor—Mr. W. Roy Hill, "O Mistress Mine" (Quilter).
9.6 : Piano—Miss Glen Carty, L.A.B., F.T.C.L. "Sonata Op. 111."
9.13: Baritone—Mr. W. Goudie, "The Stoker" (Arundel).
9.17: Selection—Band, "Carmen" (Bizet arrgd. Mackie-Beyer).
9.25: Quartets—The Lyric, "Sailors' Chorus" (Welsh tradl.).
9.29: Organ—Terence Casey, "Love Everlasting" (Friml).
9.35: Humour—Mr. Cedric Gardiner, "Our Extra Ticket" (Farjeon).
9.41: Waltz—Band, "Jolly Fellows" (Vollstedt).
9.47: Soprano—Miss Monica Malfroy, "Oh, Could I But Express in Song."
9.51: Vocal Gems and Chorus—Stanta's Ambassadors, "The Five O'Clock Girl" (Ruby).
9.59: March—Band, "Constellation" (Clark).
10.3 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, OCTOBER 9.

- 3.0 : Afternoon session gramophone recital.
3.15: Lecturette—"Salads." Talk prepared by Home Science Extension Service, Otago University.
4.25: Sports results.
5.0 : Children's hour, "Ladybird" and "Uncle Frank."
6.0 : Dinner session.
New Light Symphony Orchestra, "Scene de Ballet Marionettes."

- Orchestral—Berlin State Opera Orchestra, "Polonaise No. 2" (Liszt arr. Buller-Berghaus).
Violin—Mischa Elman, "Vocalise" (Rachmaninoff, arr. Press).
6.13: Tacet.
6.15: Orchestral—National Symphony Orchestra, "F-a Diavolo Overture, Parts 1 and 2" (Auber).
Piano—Vladimir de Pachmann, (a) "Mazurka in C Sharp Minor, Op. 68, No. 3"; (b) "Mazurka in A Minor, Op. 67, No. 4" (Chopin).
Trio—De Groot (violin), David Bor (Piano), H. M. Cave (cello), "El Religario" (Padilla).
6.28: Tacet.
6.30: Band of H.M. Coldstream Guards, "Martha Selection" (Flotow).
Violin—Mischa Elman, "Caprice in E Flat Major" (Wieniawski, arr. Kreisler).
Orchestral—New Symphony Orchestra, "Air on G String" (Bach).
6.43: Tacet.
6.45: Orchestral—New Light Symphony Orchestra, "Persiflage" (Francis).
Orchestral—New Symphony Orchestra, "Londonderry Air."
Trio—De Groot (violin), David Bor (piano), H. M. Calve (cello), "Selection in Hebrew Melodies" (arr. Saunders).
Piano—Vladimir de Pachmann, "Nocturne in E Minor, Op. 72"
6.58: Tacet.
7.0 : News session.
7.30: Talk—Mr. J. M. Scott, B.Sc. (Lincoln Agricultural College), "The Adjustment of Feed Supplies to Animal Members." Arranged by 3YA Primary Productions Committee.
8.0 : Chimes.
Classical and miscellaneous programme.
Overture—Menorah Symphony Orchestra, "Shulamith Selection."
8.9 : Tenor—Mr. J. A. Blythe, "Trees" (Raisbach).
8.13: Instrumental—Christchurch Broadcasting Trio, "Trio" (Bremner).
8.28: Mezzo-contralto—Mrs. N. Whitworth, (a) "Life's Recompense" (Del Reigo); (b) "Landscapes" (Willeby).
8.34: Piano—Miss Lucy Fullwood, "Polonaise in C Minor, Op. 40, No. 2."
8.41: Humour—Mrs. K. Hartshorn, "The One Legged Goose" (Anon).
8.45: Orchestral—Columbia Symphony Orchestra, "March of the Bojaren."
8.49: Bass—Mr. Leslie Fleming, "The Red Sarafan" (Varlemoff).
8.52: Violin—Miss Irene Morris, "Air" (Pergolesi).
8.55: Mezzo-soprano—Mrs. Grace Empson, (a) "To One I Love" (Saar); (b) "My Laddie" (Thayer).
9.0 : Weather forecast and station notices.
9.2 : Band—H.M. Grenadier Guards, "Benediction des Poignards."
9.6 : Tenor—Mr. J. A. Blythe, (a) "Where the Abana Flows"; (b) "Allah Be With Us" (Woodford-Finden).
9.12: Cello—W. H. Squire, "Slumber Song" (Squire).
9.16: Mezzo-contralto—Mrs. N. Whitworth, "Hindu Song" from "Sadko."
9.20: Violin—Miss Irene Morris, "Andalusia" (Granados).
9.23: Humour—Mrs. K. Hartshorn, "Louis D'Or" (Francois Coppie).
9.31: Piano—Miss Lucy Fullwood, "Second Impromptu" (Chopin).
9.36: Bass—Mr. Leslie Fleming, (a) "Love Me or Not" (Secchi); (b) "Thine Only" (Bohm).
9.42: Instrumental—Christchurch Broadcasting Trio, "Presto" (Lalo).
9.50: Mezzo-soprano—Mrs. Grace Empson, (a) "A Soft Day, Thank God" (V. Stanford); (b) "By the Waters of Minnetonka" (Lieurance).
9.55: Orchestral—Philadelphia Symphony Orchestra, "Nocturne No. 2—Fetes" (Debussy).
God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, OCTOBER 9.

SILENT DAY.

Friday, October 10

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, OCTOBER 10.

- 3.0 : Afternoon session—Selected studio items, including Literary Selection by the Announcer.
5.0 : Children's session, conducted by Nod and Aunt Jean.
6.0 : Dinner session.
Overture—Basle Symphony Orchestra, "Der Freischutz" (Weber).
6.12: Tacet.
6.15: Instrumental—J. H. Squire's Celeste Octet, "The Grasshopper's Dance" (Bucalossi), "The Butterfly" (Bendix).
Musical Art Quartet, "To a Wild Rose" (MacDowell).
Violin—Yvonne Cur, "Madrigale" (Simonetti).
6.27: Tacet.
6.30: Instrumental—J. H. Squire's Celeste Octet, (a) "I Love the Moon" (Rubens); (b) "Two Eyes of Grey" (McGeoch).
Instrumental—J. H. Squire's Celeste Octet, (a) "Amoureuse Valse" (Berger); (b) "Valse Bleue" (Margis).
6.42: Tacet.
6.45: Instrumental—J. H. Squire's Celeste Octet, "Valse Caprice."
Cello solo—W. H. Squire, "Sarabande" (Seitzer).
Instrumental—J. H. Squire's Celeste Octet, "Perpetuum Mobile."
6.57: Tacet.
7.0 : News, information, reports.
7.40: Talk—Rev. Angus McDonald, O.B.E., Secretary of Auckland Zoological Society, "The Sacred Ibis of the Egyptians."
8.0 : Chimes.

Instrumental trio—The Studio Trio, (a) "Hungarian Dance No. 1 in G Minor" (Brahms); (b) "Ave Maria" (Gounod).

- 8.9 : Contralto—Miss Doris Moore, (a) "Lament of Isis" (Bantock); (b) "A Request" (Woodforde-Finden).
 8.16: Flute solo—Mr. Edward V. Johnson, "Valse Gracieuse" (German).
 8.20: Baritone—Mr. John Bree, (a) "Linden Lea" (Williams); (b) "The Wanderer" (Schubert).
 8.27: Instrumental—The Studio Trio, (a) "Hymn to the Sun" (Rimsky-Korsakov); (b) "Iphigenia in Aulis" (Gluck).
 8.34: Soprano—Madame Mary Towsey, (a) "The Last Hour" (Kramer); (b) "Eleanore" (Mallinson).
 8.41: Piano—Mr. Cyril Towsey, "Dance of Doll and Valse Caprice."
 8.54: Contralto—Miss Doris Moore, "Love the Jester" (Montague Phillips).
 8.58: Evening forecast and announcements.
 9.1 : Flute solos—Mr. Edward V. Johnson, (a) "Scherzo" (Hoff); (b) "Andalouse."
 9.8 : Vocal duet—Madame Mary Towsey and Mr. John Bree, "I Would that My Love" (Mendelssohn).
 9.20: Soprano—Madame Mary Towsey, "The Soldier's Bride."
 9.24: Gramophone lecture recital—A Commentator, "Latest Recordings."
 10.4 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, OCTOBER 10.

- 3.0 : Chimes. Afternoon session—Selected studio items.
 3.30 and 4.30: Sporting results to hand.
 5.0 : Children's session, conducted by Uncle Jim.
 6.0 : Dinner music session.
 Orchestral—New Light Symphony Orchestra, "Merry Wives of Windsor" (Nicolai).
 Waltz—Marek Weber's Orchestra, "Moonlight on the Alster" (Petras).
 6.12: Tacet.
 6.15: Intermezzo—New Light Symphony Orchestra, "Hearts and Flowers."
 Waltz—Marek Weber's Orchestra, "Wine, Women and Song" (Weber).
 Wurlitzer organ solo—Reginald Foort, "By the Blue Hawaiian Waters."
 6.26: Tacet.
 6.30: Orchestral—New Light Symphony Orchestra, "The Glow Worm Idyll."
 Orchestral—Victor Salon Orchestra, "Indian Love Call" (Rose Marie).
 Orchestral—Victor Salon Orchestra, "The World is Waiting for the Sunrise" (Lockhart).
 Orchestral—De Groot and His Orchestra, "When Summer is Gone."
 6.43: Tacet.
 6.45: Orchestral—De Groot's Orchestra, "The Merry Widow" (Lehar).
 Wurlitzer organ solos—Reginald Foort, (a) "Leave Me Alone"; (b) "Songs My Mother Taught Me" (Dvorak).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 8.0 : Chimes.
 Note.—During the course of this programme there will be a relay of a Sound Film Feature from the Majestic Theatre.
 Overture—2YA Orchestra (conductor, Signor A. P. Truda), "Morning, Noon and Night" (Suppe).
 Soprano—Miss Dorothy Newman, "The Amorous Goldfish" from "The Geisha" (Jones).
 Piano—Miss Mary Lennie, "Waltz in E Flat" (Chopin).
 Baritone—Mr. Ernest Short, "The Song of the Flea" (Moussorgsky).
 Selection—2YA Orchestra, "La Boheme" (Puccini).
 Elocution—Mr. W. J. Mountjoy, Junr., "Home, Sweet Home" (Brewer).
 Cello—Lauri Kennedy, "Hungarian Rhapsody" (Popper).
 Contralto—Miss Jessie Smith, (a) "Angels Guard Thee" (Gounod); (b) "The Swan" (Grieg).
 Tenor—Mr. Chas. P. Edwards, "Where'er You Walk" (Handel).
 Selection—2YA Orchestra, "The Fortune Teller" (Herbert).
 Weather report and announcements.
 Soprano—Miss Dorothy Newman, "It's no Use Crying for the Moon."
 Trio—Fritz Kreisler, Hugo Kreisler and Michael Raucheisen, "Arlesienne Intermezzo" (Bizet, arr. Kreisler).
 Baritone—Mr. Ernest Short, Two Cautionary Tales with a Moral, (a) "Matilda" (Liza Lehmann); (b) "Henry King" (Liza Lehmann).
 Valse—2YA Orchestra, "The Blue Danube" (Strauss).
 Humorous Elocution—Mr. W. J. Mountjoy, Junr., "The Road to Tringamoot" (Laurenson).
 Cello—Lauri Kennedy, (a) "Cradle Song" (b) "Songs My Mother Taught Me" (Dvorak).
 Contralto—Miss Jessie Smith, (a) "Obstination" (Fontenailles); (b) "Secrecy" (Wolf).
 Trio—Fritz Kreisler, Hugo Kreisler and Michael Raucheisen, "Sanctissima" (Corelli-Kreisler).
 Tenor—Mr. Chas. P. Edwards, "Rose Marie" (Friml).
 Selection—2YA Orchestra, "Pizzicato Polka" (Waldteufel).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, OCTOBER 10.

- 3.0 : Afternoon session gramophone recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's Hour, conducted by Uncle Chuckle.
 6.0 : Dinner session.
 Orchestral—New Mayfair Orchestra, "Follow Through" Selection
 Cello—Pablo Casals, "Spanish Dance" (Ganados, arr. Casals).
 Orchestral—Novelty Orchestra, "Ginger Snaps" (Bourdon).

- 6.13: Tacet.
 6.15: Orchestral—Victoria Orchestra, "La Serenata" (Metra).
 Balalaiki Orchestra—Kirilloff's Balalaika Orchestra, "Medley of Old Time Songs."
 Organ—Jesse Crawford, "How Am I To Know?" (Parker-King).
 6.29: Tacet.
 6.30: Orchestral—Vienna Philharmonic Orchestra, "Die Fledermans" ("Du Und Du") (Strauss).
 Organ—Jesse Crawford, "I'll Close My Eyes to the Rest of the World."
 Orchestral—Novelty Orchestra, "Midnight Bells" (Heuberger).
 6.44: Tacet.
 6.45: Orchestral—Novelty Orchestra, "Passion Rose" (Lehar).
 Orchestral—Victoria Orchestra, "Españita" (Rosey).
 Cello—Pablo Casals, "Vito" (Spanish Dance), Op. 54, No. 5 (Popper).
 Orchestral—Novelty Orchestra, "Danse Bagatelle" (Bourdon).
 6.58: Tacet.
 7.0 : News session.
 8.0 : Chimes. Popular and Dance Programme.
 Overture—New Mayfair Orchestra, "Love Lies" (de Sylva).
 8.4 : Bass—Mr. E. J. Johnson, (a) "The Song of Hybrias the Cretan" (Elliot); (b) "Prince Ivan's Song" (Allitsen).
 8.11: Accordion—Mrs. E. Cosgrove, (a) "Invercargill" (March) (Lithgow); (b) "E Pare Ra" (Waltz) (Rowe, arr. Cosgrove).
 8.16: Quartet—Valencia Quartet, "Ever of Thee" (Foley Hall).
 8.19: Instrumental—Studio Octet (Conductor, Harold Beck), "Pique Dame."
 8.26: Mezzo-soprano—Miss Lucy Fullwood, (a) "Cupid, Fickle Cupid" (German); (b) "Heigh Ho!" (German).
 8.31: Instrumental—Studio Octet, (a) "Melodie" (Friml); (b) "Vanity."
 8.41: Soprano and tenor—Valencia Duo, "Somewhere a Voice is Calling."
 8.44: Accordion—Mrs. E. Cosgrove, (a) "Pickin' Petals Off of Daisies" (de Sylva); (b) "Silver Threads Among the Gold" (Danks, own arr.).
 8.50: Tenor—Mr. T. G. Rogers, (a) "The Barefoot Trail" (Wiggins); (b) "Roses of Picardy" (Haydn Wood).
 8.55: Instrumental—Studio Octet, "Welsh Selections" ("Melodies of Wales").
 9.0 : Weather forecast and station notices.
 9.2 : Quartet—Valencia Quartet, "Sleep Gentle Lady" (Bishop).
 9.7 : Violin, cello, harp, piano and organ—The Studio Players, "Extase."
 9.11: Contralto—Miss Mary Taylor, (a) "Husheen" (Needham); (b) "Spring Goes A-Roaming" (Windsor).
 9.17: Instrumental—Studio Octet, (a) "Rosaura" (Burgmein); (b) "Coquette" (Arensky); (c) "Spanish Serenade" (Friml).
 Dance Music until 11 p.m.
 9.20: Foxtrots—With vocal trio, Alfredo and His Band, "Sweetheart of All My Dreams" (Fitch).
 With vocal chorus, The Blue Jays, "Dance of the Paper Dolls" (Tucker).
 Alfredo and His Band, "Deep Night" (Henderson).
 The Blue Jays, "The Toymaker's Dream" (Golden).
 9.42: Waltzes—With vocal choruses, Alfredo and His Band, "My Song of the Nile" (de Sylva); "I'll Always Be in Love With You" (Ruby).
 Foxtrots—With vocal choruses, Alfredo and His Band, "Turn on the Heat" (de Sylva); "This is Heaven" (Yellen); "If I Had a Talking Picture of You" (de Sylva).
 Vocal—G. H. Elliott, "Muddlin' Thro'" (Howard Flynn).
 10.0 : Foxtrots—With vocal duet, Alfredo and His Band, "Little Pal."
 Alfredo and His Band, "Laughing Marionette" (Collins).
 Alfredo and His Band, "Why Can't You?" (de Sylva).
 Waltz, with vocal chorus—Alfredo and His Band, "Sometimes."
 Waltz, with vocal trio—Alfredo and His Band, "Let Me Dream in Your Arms Again" (Nicholls).
 10.15: Vocal—Stanley Kirkby, "My Mother's Eyes" (Baer).
 Foxtrots—With vocal choruses, Radio Rhythm Boys, "Painting the Clouds With Sunshine" (Burke).
 Alfredo and His Band, "Mean to Me" (Turk).
 Radio Rhythm Boys, "Tiptoe Thro' the Tulips With Me."
 The Plaza Band, "A Precious Little Thing Called Love."
 10.30: Waltz, with vocal chorus—Alfredo and His Band, "Lady Divine."
 Foxtrot, with vocal chorus—Harry Hudson's Melody Men, "Why Do I Love You?" (Kern).
 Two-step—Bal Musette Orchestra, "Mayorqua" (Brunel).
 Vocal—G. H. Elliott, "Yodelling Coon" (Howard Flynn).
 10.42: Foxtrots—With vocal choruses, Alfredo and His Band, "I've Never Seen a Smile Like Yours" (Johnson); "I Think of What You Used to Think of Me" (Turk).
 Harry Hudson's Melody Men, "Ol' Man River" (Kern).
 Alfredo and His Band, "I Don't Know Why I Do It, But I Do"; "Do Something" (Green-Sept).
 Dutch dance—Bal Musette Orchestra, "Rafle" (Berniaux).
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, OCTOBER 10.

- 3.0 : Chimes. Selected gramophone items.
 3.15: Talk—Miss Buccleugh, "Fashions."
 4.25: Sporting results.
 4.30: Close down.
 5.0 : Chimes. Children's hour, conducted by Aunt Sheila.
 6.0 : Dinner music.
 Selection—Court Symphony Orchestra, "The Windmill Man."
 J. H. Squire's Celeste Octet, "Scene de Ballet" (de Beriot—arr. Sear).
 Halle Orchestra, "Hungarian Dance No. 5 in G Minor" (Brahms).
 6.13: Tacet.

- 6.15: Plaza Theatre Orchestra, "The Three Bears Phantasy" (Coates).
J. H. Squire's Celeste Octet, "A Vision of Christmastide" (Harrison).
6.27: Tacet.
6.30: Regimental Band of H.M. Grenadier Guards, "La Benediction des Poignards" (Meyerbeer).
Bournemouth Municipal Orchestra, "Echoes of the Valley" (Gennin).
J. H. Squire's Celeste Octet, "Second Movement from Symphonie Pathetique" (Tchakowsky—arrgd. Robertson).
Halle Orchestra, "Hungarian Dance No. 6 in D" (Brahms).
6.43: Tacet.
6.45: Bournemouth Municipal Orchestra, "The Merry Brothers" (Gennin).
Regimental Band of H.M. Grenadier Guards, "Lo, Here the Gentle Lark" (Bishop—arrgd. Godfrey).
Herman Finck's Orchestra, "Christmas Memories" (arrgd. Finck).
6.58: Tacet.
7.0: News session.
8.0: Chimes. Overture—National Symphony Orchestra, "Orpheus in Hades."
8.9: Soprano—Miss A. Finnerty, "A Toast to Love" (Rubens).
8.13: Chorus—Mixed Chorus, "Sea Songs" (arrgt.).
8.17: Recital—Miss T. Northey. (a) "A Charlady's Confidences"; (b) "A Shivy Sauce."
8.23: Trio—4YA Trio, "Allegro Moderato" (Reissiger).
8.32: Baritone—Mr. N. Gamble, (a) "Faith in Spring" (Schubert); (b) "Courage" (Schubert).
8.38: Piano—Mr. Max Scherek, "Carnival Jest" (Schumann).
8.44: Contralto—Miss Helen Roy, "String of Pearls" (Phillips).
8.48: Trio—4YA Trio, (a) "Spanish Dance" (Ganados); (b) "Hungarian Dance" (Drdla).
8.57: Tenor—Mr. J. B. Hamilton, "Boat Song" (Wane).
9.1: Weather report.
9.3: Orchestral—Royal Opera Orchestra, "Sylvia Ballet—Pizzicato and Procession of Bacchus" (Delibes).
9.11: Soprano—Miss A. Finnerty, (a) "Borwn Bird Singing" (Wood); (b) "You Brough Ireland to Me" (Ball).
9.18: Organ—Herbert Walton, "Death of Ase," from "Peer Gynt" (Grieg).
9.22: Recital—Miss T. Northey, "Nini, Ninette, Ninon."
9.26: Baritone—Mr. N. Gamble, "The Signpost" (Schubert).
9.29: Trio—4YA Trio, (a) "Minnet in F" (Schubert); (b) "Norwegian Dance" (Grieg).
9.42: Contralto—Miss Helen Roy, (a) "Beloved, I Shall Wait" (D'Hardelot); (b) "The Garden Where My Soul Was Born" (Clarke).
9.48: Cello—Mr. P. J. Palmer, "Harlequinade" (Squire).
9.54: Tenor—Mr. J. B. Hamilton, (a) "In Late September" (Harker); (b) "Goodnight, Pretty Stars" (Johnson).
9.59: Orchestral—New York Symphony Orchestra, "Entrance of the Little Fauns" (Pierne).
10.3: God save the King.

Saturday, October 11

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, OCTOBER 11.

- 3.0: Afternoon session—Selected studio items, including literary selection by the Announcer.
5.0: Children's session, conducted by "Cinderella."
6.0: Dinner session.
March—National Military Band, "National Emblem" (Bagley).
Cello—W. H. Squire, "The Broken Melody" (Van Biene).
Albert Sandler's Orchestra, "I Kiss Your Hand, Madame" (Erwin).
Cinema organ—G. T. Pattman, "Cherie Waltz" (Valentine).
6.12: Tacet.
6.15: Court Symphony Orchestra, "The Gondoliers" (Sullivan).
Paul Whiteman's Orchestra, "Gypsy" (Gilbert).
6.27: Tacet.
6.30: Albert Sandler's Orchestra, "Chalita" (Schertzing).
Padilla's Marimba Serenaders, "Parce" (Padilla).
Piano—Gil Dech, "Sometimes I'm Happy" (Youmans).
Royal Serbian Tambouritza Orchestra, "Serbian Melody."
6.42: Tacet.
6.45: Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadow."
The Marimba Serenaders, "Dolores Waltz" (Waldteufel).
Organ—G. T. Pattman, "Worryin' Waltz" (Fairman).
March—National Military Band, "Stars and Stripes" (Sousa).
6.57: Tacet.
7.0: News and market reports.
8.0: Chimes. Relay of Municipal Concert from Auckland Town Hall, under the conductorship of Mr. Maughan Barnett.
10.0: Programme of dance music from the studio until 11 p.m.
Foxtrots—Alfredo and His Band, "Now I'm in Love" (Shapiro-Yellen); "Singin' in the Bathtub" (Magidson-Washington-Cleary); "Am I Blue?" (Akst-Clarke).
Waltz—Harry Hudson's Melody Men, "Sleepy Valley."
10.12: Foxtrots—Alfredo and His Band, "My Love Parade" (Grey-Schertzing); "Smiling Irish Eyes" (Ruby-Perkins).
Tango—Marcu and His Orchestra, "Do You Still Love Me?"
10.24: Vocal—G. H. Elliott, "Plain Chocolate" (Lutzen).
One-step—Harry Hudson's Melody Men, "Tell Me, Mother" (Yvain).
Foxtrots—Harry Hudson's Melody Men, "Happy Daye are Here Again" (Yellen-Ager); "O Ya, Ya!"

- Waltz—Harry Hudson's Melody Men, "Marie" (Berlin).
10.36: Foxtrots—The Plaza Band, "Cuts Little Flat."
Harry Hudson's Melody Men, "Lucky Me, Loveable You."
Vocal—G. H. Elliott, "Sentimental Luke" (Lutzen).
10.45: Tango—Motoi and His Orchestra, "In the Twilight."
Foxtrots—Harry Hudson's Melody Men, "Mickey Mouse," "Building a Nest for Mary" (Rose-Greer), "Cuckoo in the Clock" (Collins).
Waltz—Alfredo and His Band, "Let Me Have My Dreams."
11.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, OCTOBER 11.

- 3.0: Chimes. Selected studio items.
3.30 and 4.30: Sporting results to hand.
5.0: Children's session, conducted by Uncle Toby, assisted by Hutt Boys' Orchestra and pupils of Mrs. Isobel Halligan.
6.0: Dinner session.
Medley—H.M. Grenadier Guards Band, "Sir Harry Lauder Medley."
Waltz—Symphony Orchestra, "Doctrinen" (Strauss).
6.12: Tacet.
6.15: Piano solos—Gil Dech, "Wedding of the Painted Doll" (Freed).
Constance Mering, "So Dear" (Caesar).
Eddie Thomas' Collegians, "Waltz Medley."
Saxophone—Rudy Wiedoeft, "Minnet" (Beethoven).
6.28: Tacet.
6.30: Mandolin Band—Circolo Mandolinistico, "La Traviata Prelude Acts 1 and 4" (Verdi).
Waltz—Symphony Orchestra, "When the Lemons Bloom" (Strauss).
6.42: Tacet.
6.45: Musical Art Quartet, "Mighty Lak' a Rose" (Nevin).
Saxophone—Rudy Wiedoeft, "Valse Mazonetta" (Wiedoeft).
Piano solo—Gil Dech, "I Kiss Your Hand, Madame" (Erwin).
Eddie Thomas' Collegians, "Beautiful Ohio" (Earl).
6.57: Tacet.
7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. W. M. Jackson, "Gladioli and Gardening Hints."
8.0: Chimes. Relay from the Town Hall of a Concert in aid of the Fund for the Installation of Radio in the Mental Hospital, Porirua. His Worship the Mayor (Mr. G. A. Troup) will preside. The concert will be given under the patronage and in the presence of His Excellency, the Governor-General, Lord Bledisloe.
Overture—2YA Salon Orchestra, (Conductor Mr. M. T. Dixon) "The Glory of Russia" (Krein).
Quartet—Melodie Four, "The Wedding of the Painted Doll."
Xylophone Duo—Reno and Arta, (a) "William Tell" (Rossini); (b) "Arta Reno Polka" (original).
Address—His Worship the Mayor (Mr. G. A. Troup).
Violin solo with orchestra—Mr. W. Haydock and 2YA Salon Orchestra, "Czardas" (Monti).
Soprano with flute obligato—Miss Kathleen Ferris and Mr. Cyril Ainsworth. Accompaniment by Mr. Assheton Harbord, "Lo! Here The Gentle Lark" (Bishop).
Mr. Will Bishop—"Humour."
Tenor—Mr. Sam Duncan, "Mignon" (D'Hardelot).
Orchestral—2YA Salon Orchestra, (a) "To a Wild Rose" from "Woodland Sketches" (Macdowell); (b) "Serenade" (Strauss).
Speech—The Minister of Health (Hon. A. J. Stallworthy) and Minister in Charge of Mental Hospitals.
Xylophone Duo—Reno and Arta, (a) "Quartet" from "Rigoletto" (Verdi, arrgd. Ridgway); (b) "Hungarian Dance No. 6" (Brahms).
Baritone—Mr. R. S. Allwright, "The Irish Orchestra" (Till).
Clarinet solo with orchestra—Mr. H. Langtry and 2YA Salon Orchestra, "Ugo Conte Di Parigi" (Donizetti).
Speech—Inspector-General of Mental Hospitals (Dr. Gray).
Quartet—Melodie Four, "Carry Me Back To Old Virginny" (Bland).
Mr. Will Bishop, "Humour."
Speech—Hon. Organiser of the campaign for the Installation of Radio in the Porirua Mental Hospital (Mr. L. O. Hooker).
Soprano with violin obligato by Mr. R. Maunder, accompaniment by Mr. Assheton Harbord, "Serenata" (Toselli).
Quartet—Melodie Four, "Interge Vitae" (Anon.).
Selection—2YA Salon Orchestra, "Russian Fantasia."
10.15 (approx.): From the studio—Dance programme.
Foxtrots—Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "I Could Do It For You" (Conrad-Mitchell-Gottler).
Dan Russo and His Orfelo Orchestra, "Wouldn't It Be Wonderful" (Clarke-Akst).
Herbert Gordon and His Hotel Ten Eyck Whispering Orchestra, "Hard To Get" (Meyer-Bryan-McLaughlin).
10.24: Waltzes—Carter's Orchestra, "Missouri Moon" (Parish-Lodge).
Eddy Shaw's Hawaiians, "Sweetheart of the Tropical Sea."
Foxtrots—Hal Kemp and His Orchestra, "H'Lo Baby."
Red Nicholls and His "Strike up the Band" Orchestra, "Strike Up The Band" (Gershwin).
10.36: Vocal duet—Al and Pete, "When You're in Love" (Little and Burke).
Foxtrots—Hal Kemp and His Orchestra, "A Little Kiss Each Morning" (Woods).
Red Nicholls and His "Strike up the Band" Orchestra, "Soon" (I. and G. Gershwin).
Waltz—Eddy Shaw's Hawaiians, "Under the South Sea Moon."
10.48: Waltz—Carter's Orchestra, "Daddy's Lullaby."

Foxtrots—Bob Haring and His Orchestra, "Love Made a Gypsy Out of Me" (Phillips-De Costa-Zimmerman).
 Hal Kemp and His Orchestra, "I Love You, Believe Me I Love You" (Cowan-Bartholomae-Boutelje).
 Bob Haring's Orchestra, "Georgia Pines" (Trent-de Rose).

11.0 : Sporting summary.

11.10 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, OCTOBER 11.

3.0 : Afternoon session—Gramophone recital.

4.25 : Sports results.

5.0 : Children's hour, conducted by "Aunt Pat and Uncle Charlie."

6.0 : Dinner session.

Paul Godwin's Orchestra, "Musical Panorama Medley, Parts 1 and 2" (Lincke); "Birthday Serenade" (Lincke).

6.13 : Tacet.

6.15 : Paul Godwin's Orchestra, "The Spider" Intermezzo (Klose); "Tonerna" (Sjoberg); "Wedding Serenade" (Klose); "Butterfly—Intermezzo" (Schkenk).

Violin with orchestra—Paul Godwin's Orchestra, "Serenade" (Tosti).

6.29 : Tacet.

6.30 : Paul Godwin's Orchestra, "Geisha" Medley (Jones).

Instrumental—Vienna Schrammel Quartet, "Firefly's Appointment."

6.43 : Tacet.

6.45 : Paul Godwin's Orchestra, "Medley Memorial of Strauss' Waltzes." Instrumental—Vienna Schrammel Quartet, "Serenade" (Heykens).

6.58 : Tacet.

7.0 : News session.

7.30 : Sports results.

8.0 : Chimes. Vaudeville programme by The Optimists. Accompanist, Mr. Melville Lawry.

Overture—Marek Weber's Orchestra, "Lehariana" (arrgd. Geiger).

Choral—Optimists, (a) "Garden Suburb" (own arrgt.); (b) "O Dem Golden Slippers" (Bland); (c) "Bohunkus" (Anon.).

Baritone—Mr. Murray Jones, "The Boatwain's Story" (Molloy).

Banjo—Ernest Jones, "Nigger Town" (Morley).

Soprano—Miss Clarice Cooper, (a) "Message and the Song" (Mallinson); (b) "Little Brown Owl" (Sanderson).

Quartet—Optimists, "Little Heather" (Shaw).

Steel guitars and ukulele—Elaine Moody's Hawaiian Trio (vocal refrains by Elaine Moody). (a) "Blue Eyes" (O'Flynn-Hoffman); (b) "Aloha-oe" (introducing auto-harp played by Elaine Moody) (Kailimai); (c) "Lady Luck" (Perkin).

Bass—Mr. J. L. Tennant, (a) "Young Tom o' Devon" (K. Russell); (b) "Captain Mac" (Sanderson).

Recitation—Miss Naare Hooper, "The Adventures of Catherine Parr."

Novelty—Four Provinces Orchestra, "The Merry Blacksmith."

Contralto—Miss Kathleen Rond, (a) "The Glory of the Sea" (Sanderson); (b) "Hail, Caledonia" (Scottish).

Choral—Optimists, (a) "Kafooze'm" (Anon.); (b) "Painting the Clouds with Sunshine" (Dubin-Burke); (c) "Come to the Fair."

9.0 : Weather report and station notices.

Orchestral—The Troubadours, "Some Day, Somewhere" (Pollack).

Baritone—Mr. W. J. Spratt, (a) "Plymouth Hoe" (Lennard); (b) "Good Company" (Adams).

Tenor and bass—Messrs. Jas. Shaw and J. L. Tennant, "Be Mine the Delight" (from "Faust") (Conrad).

Organ—Lew White, "Lorise" (Whiting).

Tenor—Mr. Jas. Shaw, Roman Song (a) "Miri Dye" (Lohr); (b) "The Maorie is a Gypsy Bird" (Lohr).

Quartet—Optimist Party, "Little Tommy Went a-Fishing" (Macy).

Steel guitars and ukulele—Elaine Moody's Hawaiian Trio, (a) "If I Had You" (Shapiro-Connelly); (b) "Sweet Hawaiian Moonlight" (Frost); (c) "Stay Out of the South" (Dixon). (Vocal refrains by Elaine Moody and Trio).

Recitation—Miss Naare Hooper, "The Gasoline Good-bye" (Lencock).

Novelty—Flanagan Bros., "Highland Fling Medley" (Traditional).

Banjo and banjo trio with piano—Misses M. and L. Straw and E. Churchill (accompanied by Miss R. Nicholas at piano), (a) "Selection" (own arrgt.); (b) "Popular Melody" (own arrgt.).

Baritone—Mr. Murray Jones, "Shipmate o' Mine" (Sanderson).

Choruses—The Optimists, (a) College Song, "My Bonnie is Over the Ocean"; (b) Neapolitan, "Santa Lucia"; (c) "Peggy O'Neill."

Dance music until 11 p.m.

10.0 : Foxtrots—Abe Lyman and His California Orchestra, "Another Night." Meyer Davis's Hotel Astor Orchestra, "If I Had My Way."

Abe Lyman and His California Orchestra, "I'm Only Making Believe" (Davis-Coots).

Chic Scoggin and His Pla-mor Orchestra, "If I Could Write a Song" (Fulcher).

Waltz—Meyer Davis's Hotel Astor Orchestra, "There Must Be Somebody Waiting For Me" (Donaldson).

10.15 : Foxtrots—Jesse Crawford and His Orchestra, "The Prep Step."

Irving Mills and His Hotzy Totsy Gang, "Manhattan Rag."

Jesse Stafford and His Orchestra, "My Sweetest Than Sweet."

Vocal—Chester Gaylord, "Dance Away the Night" (Thompson-Stamper).

Foxtrots—Irving Mills and His Hotzy Totsy Gang, "What Kind of a Man Is You" (Carmichael).

Tom Gerun and His Orchestra, "One Sweet Kiss."

Jack Denny and His Mount Royal Hotel Orchestra, "The End of the Lonesome Road" (Ruby-Perkins).

Waltzes—Abe Lyman and His California Orchestra, "If I'm Dreaming" (Dubin-Burke); "The Shepherd's Serenade."

10.42 : Vocal—Chester Gaylord, "Just You, Just Me" (Klages-Greer).

Foxtrots—Tom Gerun and His Orchestra, "Some Day Soon."

Jack Denny and His Mount Royal Hotel Orchestra, "Scotchle" (White).

Abe Lyman and His California Orchestra, "Sally" (Dubin Burke); "If He Cared" (Grey-Stothart).

Chic Scoggin and His Pla-mor Orchestra, "She Chills Me."

11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, OCTOBER 11.

3.0 : Chimes. Selected gramophone items.

5.0 : Children's hour, conducted by Uncle Sambo and Aunt Anita.

6.0 : Dinner music.

March—H.M. Grenadier Guards, "Martial Moments" (arr. Winter).

Waltz—Eddie Thomas' Collegians, "Missouri Waltz" (Logan).

6.12 : Tacet.

6.15 : Violin and Wurlitzer organ—Marrnello, "Evening in the Desert."

Hawaiian—South Sea Islanders, "Dreamy Hilo Bay" (Heagney).

March—Columbia Symphony Orchestra, "March of the Toys."

Piano solo—Percy Grainger, "Molly on the Shore" (Grainger).

6.26 : Tacet.

6.30 : Waltz—Eddie Thomas' Collegians, "Till We Meet Again" (Whiting).

Waltz—Eddie Thomas' Collegians, "Beautiful Ohio" (Earl).

Piccolo duet—Jean and Pierre Gennin, "Rippling Streams" (Gennin).

6.41 : Tacet.

6.45 : Violin and organ—Marrnello, "Once" (Saunders).

Xylophone—W. W. Bennett, "Gee Whiz" (Byron).

Hawaiian—South Sea Islanders, "Lei Lani" (Heagney).

Instrumental—Denza Dance Band, "In the Shadows" (Finck).

6.58 : Tacet.

7.0 : News session.

8.0 : Chimes. Relay of Vaudeville Programme from 3YA, Christchurch.

10.0 : Dance session.

Foxtrots—Jack Denny and His Mount Royal Hotel Orchestra, "Hangin' on the Garden Gate" (Kahn-Florito).

Ben Bernie and His Orchestra, "Have a Little Faith in Me."

Jack Denny and His Mount Royal Hotel Orchestra, "A Night of Happiness" (Conrad).

Waltz—Castlewood Marimba Band, "Springtime, Lovetime, You."

Foxtrots—Colonial Club Orchestra, "I Never Dreamt" (Parsons-Ellis).

Bob Haring and His Orchestra, "I'm in the Market for You."

Waltz—Castlewood Marimba Band, "Springtime, Lovetime, You."

10.18 : Vocal trio—Earl Burnett's Biltmore Trio, "If I Can't Have You."

Foxtrots—Tom Clines and His Music, "So Sympathetic."

Ben Bernie and His Orchestra, "Let Me Sing and I'm Happy" (Berlin).

Tom Clines and His Music, "Alone with My Dreams."

Waltz—Castlewood Marimba Band, "Melancholy Moon" (Ford-Kendall).

10.33 : Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Just Another Night with You" (Newman).

Tom Clines and His Music, "The Free and Easy."

Lloyd Huntley and His Isle o' Blues Orchestra, "Take Me."

Vocal trio—Earl Burnett's Biltmore Trio, "Out of the Past."

10.45 : Foxtrots—Colonial Club Orchestra, "I'm on a Diet of Love."

Colonial Club Orchestra, "Like a Dream."

Colonial Club Orchestra, "We'll Build a Little World of Our Own" (Brockman).

Bob Haring and His Orchestra, "Just Like in a Story Book."

Waltz—Tom Clines and His Music, "It Must be You" (Turk-Ahlert).

11.0 : God save the King.

Sunday, October 12

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, OCTOBER 12.

3.0 : Afternoon session—Selected studio items, including Literary Selection by the Announcer.

6.0 : Children's Song Service, conducted by "Uncle Bert."

6.55 : Relay—Divine Service St. David's Church. Organist: Mr. E. S. Craston.

8.30 : (Approx.)—Relay Municipal Band Concert, under the conductorship of Mr. H. McLennan, from the Auckland Town Hall.

9.30 : (Approx.)—God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, OCTOBER 12.

3.0 to 4.30 : Afternoon session of selected gramophone records.

6.0 : Children's song service, conducted by Uncle George, and assisted by St. Aiden's Anglican Sunday School Choir.

7.0 : Relay of the special service held in connection with the Sunday School Anniversary of the Taranaki Street Methodist Church. Preacher, Rev. T. R. Richards. Organist and Choirmaster, Mr. H. Temple White.

8.15 : (approx.) Studio concert by the Port Nicholson Silver Band (Conductor, Mr. J. J. Drew) and assisting artists.

Hymn—Band, "Pax Dei" (Seitney).

March—Band, "The Scindian" (Rimmer).
 Soprano—Miss Beatrice Aydon, "Love, the Jester" (Phillips).
 Quartet—London Flute Quartet, (a) "Melody from Rosamunde" (Schubert); (b) "Bees' Wedding" (Mendelssohn).
 Baritone—Mr. Eric Harrison, "My Dream" (Bonheur).
 Overture—Band, "Le Diademe" (Hermann).
 Tenor—Mr. Les Stapp, "Mir Johan" (Strickland).
 Yodel chorus—Edelweiss Yodlers, "S'malche" (Milking) (Schmaiz).
 Weather report and station notices.
 Symphony—Band, "Unfinished Symphony" (Schubert).
 Soprano—Miss Beatrice Aydon, (a) "Lad's Love" (Coningsby Clarke); (b) "The Net Mender" (Coningsby Clarke).
 Quartet—London Flute Quartet, "Carnival of Venice" (Venedict).
 Baritone—Mr. Eric Harrison, (a) "Tired Hands" (Sanderson); (b) "The Curtain Falls" (D'Hardelot).
 Meditation—Band, "Sanctuary of the Heart" (Ketelbey).
 Tenor—Mr. Les Stapp, (a) "Molly Brannigan" (Stanford); (b) "Sweet Lady" (Sprott).
 Orchestral—Edith Lorand Orchestra, "Minuet" (Boccherini).
 Duet—Miss Beatrice Aydon and Mr. Les Stapp, "Rose of My Heart."
 March—Band, "Australian" (Rimmer).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, OCTOBER 12.

3.0 : Afternoon session—Gramophone recital.
 5.30: Children's song service.
 6.15: Chimes from studio.
 6.30: Musical recordings from studio.
 7.0 : Relay from The Church of Christ, Moorhouse Avenue. Preacher, Pastor J. Watt. Organist, Miss N. Readhead. Choirmaster, Mr. H. Ames.
 8.15: (Approx.)—Studio programme. Orchestral—Berlin State Opera, "Polonaise No. 2."
 8.23: Soprano—Miss Sylvia Angus, "On Mighty Pens" (from "Creation").
 8.27: Instrumental—Broadcasting Trio, "Trio in G Major" (Haydn).
 8.41: Baritone—Mr. F. A. Bullock, (a) "Four by the Clock" (Mallinson); (b) "Child, What Sings the Morning?" (Mallinson); (c) "We Sway Along the Ridges" (Mallinson).
 8.47: Violin—Miss Irene Morris, "Larghetto" (Handel-Hubay).
 8.52: Choral—Sheffield Choir with Orchestra and Organ, "Let Us Now Praise Famous Men" (Davies).
 9.0 : Weather forecast and station notices.
 9.2 : Orchestral—New Queen's Hall Orchestra, "Slavonic Dance in C Minor."
 9.5 : Soprano—Miss Sylvia Angus, (a) "The Almond Tree" (Schumann); (b) "A Woman's Last Word" (Bantock).
 9.10: Instrumental—Broadcasting Trio, "Prelude and Tempo Di Minuetto."
 9.20: Baritone—Mr. F. A. Bullock, (a) "The Smuggler's Song" (Mullinar); (b) "The Bells of Ys" (Weston Nicholl).
 9.28: Violin—Miss Irene Morris, "Scherzo" (Dittersdorf-Kreisler).
 9.29: Orchestral—Berlin Philharmonic Orchestra, "Tannhauser March."
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, OCTOBER 12.

3.0 : Chimes. Selected gramophone items.
 5.30: Children's song service, conducted by Big Brother Bill.
 6.15: Close down.
 6.30: Relay of evening church service from St. John's Anglican Church. Preacher, Ven. Archdeacon W. A. Fitchett, M.A.
 7.45: London Symphony Orchestra, "Symphonic Poem" (Liszt).
 Baritone—Keith Falkner, "Shepherd, See Thy Horse's Foaming Mane" (Korby); "Had a Horse" (Korby).
 Piano—W. Backhaus, "Studies Op. 56" (Chopin).
 8.15: Relay of concert programme from 3YA, Christchurch.
 9.30: God save the King.

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Australian Programmes

(Times corrected for New Zealand.)

Thursday, October 2.

STATION 2FC.—9.30 p.m.: From the Little Theatre, a three-act comedy, "David Garrick." 11.47 p.m.: Dance music from the Hotel Australia.
 2BL.—9.30 p.m.: Band music and community singing from the Ashfield Town Hall.
 3LO.—9.30 p.m.: "Hot and Dot," entertainers. 10 p.m. and at intervals throughout the evening: Dance numbers by the A.B.C. Novelty Orchestra. 10.15 p.m., 10.47 p.m. and 11.17 p.m.: The "Two Rodneys" will entertain. 10.27 p.m., 10.57 p.m., and 11.27 p.m.: Norman Bradshaw, tenor.
 3AR.—9.47 p.m.: Studio reproductions (annotated by Mr. Lindsay Biggins, Mus. Bac.), including Symphony No. 6 (Pathétique in B Minor), (Tchaikowsky). 10.30 p.m.: Transmission from Cairns Memorial Church. 11 p.m.: Further studio reproductions.

Friday, October 3.

STATION 2FC.—9.30 p.m., 9.44 p.m., 10.35 p.m. and 11.9 p.m.: The A.B.C. Orchestra. 9.37 p.m. and 10.3 p.m.: Gwladys Fimister, soprano. 9.51 p.m. and 10.23 p.m.: Clifford Lathlean, basso. 9.58 p.m.: Vincent Aspey, violinist. 10.19 p.m.: G. Vern Barnett, piano solo, "Paeons" (Arensky). 10.12 p.m. and 10.52 p.m.: Norah Alexander, entertainer. 10.42 p.m. and 11.12 p.m.: Jack Lumsdaine, the "Radio Rascal." 10.59 p.m.: Alard Maling, bell solo. 11.2 p.m. and 11.23 p.m.: The A.B.C. Male Quartet.
 2BL.—9.30 p.m., 10.3 p.m. and 11.44 p.m.: The Kookaburra Saxophone Quartet. 9.38 p.m. and 10.15 p.m.: The Wikara Trio. 9.45 p.m. and 10.22 p.m.: Fred Bluett, comedian. 9.52 p.m.: Carlton Fay, novelty pianist. 9.56 p.m. and 11.25 p.m.: Louise Homphrey, lady baritone. 10.10 p.m. and 11.32 p.m.: Dorothy Nall, entertainer. 10.35 p.m.: "And There Was Light," a comedy drama.
 3LO.—9.30 p.m.: Transmission from St. Paul's Cathedral of an organ recital by Dr. A. B. Floyd. 10 p.m.: Programme by the Victorian Singers. 10.45 p.m., 11.5 p.m., 11.24 p.m., and 11.41 p.m.: Selections by the Malvern Tramways Band.
 3AR.—9.45 p.m.: Community singing from the Ballarat Town Hall.

Saturday, October 4.

STATION 2FC.—9.30 p.m.: "The Drums of Oude," a drama in one act. 10.13 p.m.: The 2FC Follies of 1930 in an hour's entertainment. 11.47 p.m.: Dance music from the ballroom of the Oriental.
 2BL.—9.30 p.m., 11.36 p.m.: Alfred Wilmore, tenor. 9.37 p.m. and 11.12 p.m.: "Chit and Chat," entertainers. 9.44 p.m. and 11.19 p.m.: Harrison White, banjoist. 9.51 p.m. and 11.43 p.m.: Dorothy Dewar, popular vocalist. 10 p.m.: Description of boxing contest from the Sydney Stadium. 11.5 p.m., 11.20 p.m. and 12 p.m.: The A.B.C. Dance Band.
 3LO.—9.30 p.m.: Pat Hanna and Company in an hour of comedy. 10.46 p.m.: Reminiscences of Gilbert and Sullivan. 11.10 p.m.: Chamber music by the A.B.C. String Quartet, assisted by Madame Joy McArden.
 3AR.—9.30 p.m., 10.7 p.m., 10.34 p.m. and 11.15 p.m.: St. Vincent de Paul's Band. 9.40 p.m. and 10.36 p.m.: John Wright, baritone. 9.47 p.m. and 10.24 p.m.: George Findlay, piano. 9.55 p.m.: Dramatic recital, "The Barrel Organ." 11.20 p.m.: In the realm of opera—"Mignon," by Ambrose Thomas.

Sunday, October 5.

STATION 3LO.—9.30 p.m.: Transmission from "The Plaza," St. Kilda, of a concert by Gustave Slapofski and the Victorian Professional Orchestra. 10.30 p.m.: The story of the Fisk Jubilee Singers. 10.45 p.m.: Continuation of concert programme.
 3AR.—8.30 p.m.: Divine service from the Unitarian Christian Church. 10 p.m.: Relay of programme from 2BL, Sydney.

Monday, October 6.

STATION 3LO.—9.45 p.m.: Old-time musical items and choruses. 12.30 p.m.: Modern dance music.
 3AR.—9.45 p.m., 10.20 p.m. and 11.52 p.m.: The studio orchestra. 9.55 p.m. and 11.7 p.m.: Francis Dillon, soprano. 10.2 and 11.7 p.m.: 10.12 p.m. and 11.13 p.m.: Leonard Rowe, bass. 10.30 p.m.: The week's "Surprise Item." 10.50 p.m. and 11.20 p.m.: A.B.C. String Quartet. 11.40 p.m.: Jack and Jill Proprietary Unlimited, dealers in "Jazz Jewels."

Tuesday, October 7.

STATION 3LO.—9.30 p.m.: An A.B.C. Orchestral Concert with Gustave Slapofski and the Victorian Professional Orchestra. 10.30 p.m.: "Bushranging Silhouettes." 10.45 p.m.: Continuation of concert.
 3AR.—9.30 p.m.: A vaudeville programme from the Tivoli Theatre. 10.45 p.m.: A "Radio Atmospheric." 11.10 p.m., 11.23 p.m., 11.40 p.m. and 11.53 p.m.: The A.B.C. Novelty Orchestra. 11.16 p.m. and 11.46 p.m.: Carrie Cairnduff, songs at the piano.

Wednesday, October 6.

STATION 3LO.—9.30 p.m.: The Victorian Players present "Mr. Wu," a play in three acts. 12 p.m.: The studio dance band, in popular numbers.
 3AR.—9.15 p.m.: The Bells of St. Paul's Cathedral, Bendigo, will chime five hymns. 9.30 p.m.: Transmission from St. Paul's, Bendigo, of a sacred concert and organ recital.

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Addresses, and Addresses Wanted.

R. K. WILTON (Auckland): The address of KEX is Western Broadcasting Company, Portland, Oregon. Address of 4LW is C. R. Morris, 20 Elizabeth Street, Rosalie.

M.A.K. (Papatoetoe): Address of BEF is H. W. Maddick, 89a Spray Street, Elwood, S.3. 3KR is K. R. Rankin, Boundary Street, Kerang. There is no listed station VIM Melbourne.

H.H. (Whitanga): You heard JOCK Noyaga, Japan (behind 3LO), and probably KHJ Los Angeles, California (behind 1YA).

Z.L.D.X. wants the addresses of W9XF, Chicago; LSH, Buenos Aires; Radio Saigon, Indo-China; Zeesen, Germany; and KZRM, Manila.

A.H.G. (Makaraka), wants the address of 2KML, Naldi, heard calling Melbourne on September 19 at 8 p.m.

Yankee (N.P.) wants transmission hours of 12M.

"Bob" and **P.J.R.**: Address of 12M is Mr. W. W. Rogers, Radio Dealer, Massey Road, Manurewa, Auckland. He uses 10 watts.—J.A.S. (Otahuhu).

"Tara": Address of JOHK is Sandai; of JOIK is Sapporo; and of JOAK, is Tokio.

Answers in Brief.

"METRE" (Tauhoa): You heard amateurs in two-way communication.

Sandy (P.N.): My short-wave set is three-valve Schnell, my broadcast three-valve Reinartz—A.M. (Dunedin), a good log. What kind of set and crystal do you use, and what kind of an aerial equipment do you have?—ZLDX (P.N.).

H.H. (Waitangi): Your notes about a station with lady announcer are too vague. Give dial settings.

J.P.C. (P.N.): Do you use phones or speakers? I receive my stations on the latter. I am only a school DX'er, and am just starting out.—Sandy.

H.J.R. (Southbridge): You probably heard WLWL New York, and KFSG Los Angeles. See 1930 "Guide."

THE D.X. CLUB

Views and News.

Sandy (P.N.): I use a four-valve battery set with 90 volts B.—Incuba (Waitohu).

Identification Wanted.

SEVERAL evenings this week a stranger on 675 k.c. call sounded like 3HD. He played one side of a record, then announced he would be on the air again at 8 p.m. (our time was 9.50 p.m.), when he would play the other side with a loud needle. An American on approximately 930 k.c. (322 metres) on Tuesday, 16th, at 5.50 p.m., describing a wrestling bout between Edison and another. Announcer said it was the fastest contest he had ever witnessed.—Vogeltown

Foreign station heard about 2 degrees above 2YA at R1-2 between 11-12 p.m.—"Miner" (Brunnerton).

Station on 2ZM, Gisborne's, wavelength broadcasting Sunday at midnight what seemed to be a church service. The voice sounded foreign.—E.T.D. (Wgton.).

Saturday and Sunday at 1 p.m. a short-wave station just above 2ME, broadcasting music chiefly of the Italian type. Call sounded like "ele, efe, eki."—E.J.W.

Station on 690 k.c. (434 metres) calling itself VHQ. Seemed to be testing.—J. A. Nicholson (Otarehuna) and "Miner." Saturday, September 20, 12.30 a.m., just above 2HD, station which sounded like 3DA, Adelaide. An American whose call sounded like KMOS, but it was not KMOX.—Tulip (N.P.).

Sunday, 21st, between 12.15 and 12.45 p.m., one degree above 2ZR. Announcer speaking in a foreign language, with an interval of about half a minute between each announcement.—W.H.H. (Wgtn.).

About 12 p.m., 2 degrees above 2GB,

station sounding like 5QG, Adelaide.—Pukewai (Pahiatua).

Te Deum, and part of Church of England service, heard about 440 metres, just below 2FC, came through clearly between 1.45 and 2.15 p.m.—Dink.

430 metres (698 k.c.), 6.80 to 6.45. Broadcasting jazz. 278 metres (1079 k.c.), on top of 2KY, also on jazz. 210 metres (1400 k.c.), talking, not American. 390 metres (769 k.c.), not JOHK, but American. All on August 31—R.R.E. (P.N.).

T.R.S. (Dunedin): See short-wave notes last week for station on 40 metres.

Friday, September 12.—Station above 6WF. Just audible, sounded like Japanese.—W.T.S. (Waiatu).

Foreigner on 77 metres, heard every

DX Correspondence

AS our correspondence to the DX Club is becoming quite a problem we would ask listeners to observe a few courtesies.

1. In asking for the identification of a station it is necessary to give more than the dial setting. Quite a number have been doing this lately, and other correspondents looking up lists of stations have been quoting them as identified stations. Give the item broadcast, and before the stations can be definitely identified some other DX member should have heard that particular station giving the item. Otherwise there is far too much guesswork without any results.

2. When writing to different sections of the DX Club please keep the items separate and write legibly. For example, do not mix up a paragraph for the DX Topics with a request for a station to be identified. Of paramount importance—be brief.

3. DX Topics should be of general interest to all DX readers, and not merely a statement that your log comprises so many stations received on such and such a set.

4. As far as possible try to follow the form of questions and notes that is set out in the page. At present almost every letter has to be rewritten and this involves a great amount of time.

5. If possible express frequency in kilocycles and metres.

6. All communications addressed to "DX Editor, Box 1082, Wellington."

7. A coupon is unnecessary.

day of the week at R8. Commences about 9 p.m., closes 2 a.m. It is not RB15. W3XAL overlaps an American station just below it. Both stations close down at the same time.—S.W. (Lower Hutt).

Has anyone heard a station on 1YA's wave, at about 3 a.m. (not JFAK) and after?—R.J.R. (P.N.).

ON Thursday, 11th inst., I happened to be listening in at about 12 midnight and was astonished to hear so many Japanese stations. They seemed to be everywhere, and whilst I was unable to wait long enough to hear the call sign of them all, I am quite positive of their existence as they were all at good loud-speaker strength. The following are the wavelengths on which I heard Jap. stations (in kilocycles): 750, 770, 780, 800, 820, 850, 865, 870, 890, 900. (There is also one on 970, but I do not think it was open.) Can anyone explain this reception, as I was unaware that so many stations existed. There was a variety of programmes, although the majority

seemed to be talking and dialogue. I also heard COMK and GOW, China, at good strength, and two other stations on 635 and 690 k.c. respectively, on musical programmes, but faint. I thought I heard the words British Columbia, so think these two may have been CFCO and CFCN, Victoria, B.C., and Calgary, respectively.—"Screen Grid" (Opunake).

September 23, at 3.30 a.m., station operating just above 3LO; heard piano-forte solo, but no announcements. No other stations were on the air at the time. On 22nd, at 8 p.m., heard another just below 2FC, while on 23rd I picked up a strong carrier just below 4YA. Both carriers were loud, but transmission was drowned by the two stations mentioned. Are there any powerful Americans operating on these frequencies?—"K.A.D." (Hawke's Bay).

Gramophone records at 7 p.m., on September 25, coming in at 7 on the dial (2YB at 15), approximately 1240 kc. (242 metres).—"R.W.S." (Waitotara).

On September 16, 17, and 18, between 11.30 p.m. and 12.30 p.m., two stations heard at fair speaker strength. Fading prevented call being heard. They are between 4ZL Dunedin and 2YB New Plymouth, and 3YA Christchurch and 6ML Perth. Can any Americans be heard after 11 p.m. on week-days or 9.30 p.m. Sundays?—"A.L.S." (Dunedin).

On September 25, at 1.20 a.m., station on dial 14 (Gisborne, 13.5). Appeared to be testing, as records were being interrupted about every minute. Records were of the popular type. I held them until 1.55 a.m., but no announcements were made. Volume was good, clear and steady, with slight static. On 22nd, station heard on dial number 14.5, at weak speaker strength—static bad. Two records heard were "Honey" and "After the Ball is Over."—"Jaka" (Wellington).

Stations Identified.

I.V.M. (Wellington) and Novice (Cross Creek): No doubt LSH, Buenos Aires, on 29 metres. Other station on 49 metres probably W3XAL Cincinnati, on 49 metres. "Metre," ZL2DU, 49 Ferguson Street (P.N.). Your Huntly Ham, ZL1CA.—ZLDX (Palm North).

"Interested" (Dunedin): Station on 833 kc. is KOA Denver, Colorado. "Bob" (Wellington), heard 6WF Perth. "Proton" (Gisborne): The address of 2ZL is Lockyer's Radio Service, Here-taunga Street East, Hastings. They transmit every Tuesday and Friday from 6.30 p.m. to 10 p.m. "Keijo" (Invercargill): The station above KGO is KTM, Santa Monica.—"Yankee" (N.P.).

"R.E.K." (Westland): Station between 2KY and 2UE, probably KNX, Paramount Pictures, Hollywood, California, and one above 4YA is KFI, Earl Anthony, Inc., Los Angeles. "J.L.D." (Clyde): 2ZH Napier, on 238 metres (1260 kc.) probably. "Short-waver" (Wairoa): One of New Zealand amateurs.

"Proton" (Gisborne): American on 2YA is KGN, Chicago. "Keijo" (Invercargill): American above KGO is KMIC Inglewood, California. "Peak" (Christchurch): KFI Los Angeles. Several inquiries re station on 3YA's frequency.

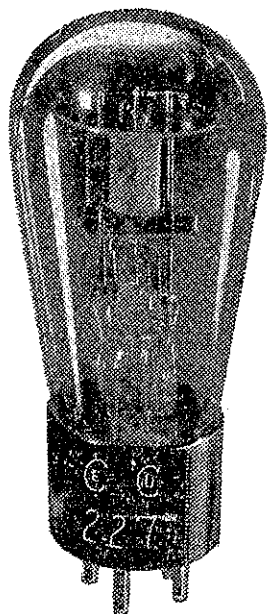
5DN Parkside, South Australia, is almost on the same frequency, and WOC and WHO Davenport, and De Moines, Iowa, are the only stations almost on 3YA that I have heard.—E. W. A. Anglesey (Nelson).

"J.L.D." (Clyde): Your station on 77 will be 2ZK Wanganui. He is a rover, and you are liable to strike him anywhere between 3AR and 7ZL. He has misled me many a time.—"B.W." (Stratford).

"Interested" (Dunedin): Station on 560 kc. is KTMR Hollywood, California. "R.E.K." (Westland): On September 11, between 11.30 and 12 p.m., I received KFKB Milford, Kansas, for the first time, between 2KY and 2UE, same date and time. One degree above 4ZL should be 5KA Adelaide. "J.L.D." (Clyde): Station above 2YA is COMK Mukden, China; on 1170 kc. is 3DB Melbourne. "Mug" (Brna): 810 kc. should be Calcutta. "M.B.S." (P.N.): Heard station

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G.F. Q.P.

which you think is Bucharest on 26th. Two items heard were "Jeannine, I Dream of Lilac Time," and "Ramona." Lady announcer. You heard an Old World station all right. "B.W." (Stratford): 1460 kc. is VKLLW Victoria. 6ML Perth is right. I receive VK2UR as Bodallah, Victoria. I heard KGMB announced last night. Don't think he has changed his call. "Proton" (Gisborne): WBBM Chicago. "J.P.C." (P.N.).

DX Topics.

I HAVE added three new Americans, KGER, 1970 kc. (219 metres), on a test programme until 9 p.m., at fair speaker strength, fading badly, KSL Salt Lake City, good strength, closed at 7.30 p.m.; WGDY, 1180 kc. (254 metres), good speaker strength, with records until 10.30 p.m. He was right on 120's frequency. KFOX and KMIC are frequently heard on my five-valve battery set.

DID any listener hear 4ZL's rebroadcast of PCJ's broadcast on Saturday evening? KFOX is my best American with KNX a good second. I can get these two at good strength almost every evening.—Sandy (P.N.).

I HAVE added KOA Denver, 825 kc. (364 metres), KRDL Dallas, 1065 kc. (282 metres), and COMK China, 705 kc. (425 metres). The Japs are coming in very well at present, and I heard JOIK conducting a lecture in English and Japanese. Did any listener tune in to 2FC on Friday, the 19th, at 11.30 p.m., and notice during a comic dialogue orchestral music being played in the background? It puzzled me until I heard the announcement that 3LO were relaying to 2FC and then it occurred to me that they were picking up the Jap JOIK, who is almost on 3LO's frequency. This I found to be the case, for on tuning in this Jap I found that they were putting over the same tunes as I could hear on 2FC programme. I have received some interesting letters from U.S.A. by the last mail. KGMB state they are operating on 250 watts only, but hope to double their power. WLW Cincinnati verified my report and asked for suggestions from New Zealand listeners. From WFAA Dallas, Texas, a copy of an up-to-date radio log, with the comments, "As long as the stations keep in step there will be no interruption in the orderliness of the procession. Those found out of step need not be recorded, as they will probably be court-martialled before you hear them again. Many elements prevent your dial from being correct, but this log is. It may be obtained by sending 25 cents to Haynes Radiolog, 608 So., Dearborn Street, Chicago." KPO San Francisco sent an interesting letter a copy of which is appended. At 5 p.m. this evening WBNR Chicago, 344 metres (875 kc.) was coming in stronger than ever. I have heard it before. WFAA Texas announced the winners of a singing competition, and reception was so clear that I could get the names and numbers. I have added KFWV California on 945 kc. (316 metres). I picked up two strangers at 11.30 on the 31st on 890 kc. (348 metres) and 910 kc. (330 metres), but static was too bad.—Vogeltown (N.P.). "Radio KPO, Hale Bros. and "The

Chronicle," San Francisco. Dear Mr. Williamson,—Because your letter of June 22 was so interesting it has gone the rounds of the station, from the operators to the publicity desk, and has been used as the basis for a number of articles in the Press. You see, yours was the first letter to reach us this season from your part of the world and we are very happy to have it. We shall be delighted to have your comments and suggestions any time and hope you will pick us up again soon and let us hear from you again. We are on the air each day from 7-00 a.m. to midnight, Pacific Standard Time, and feel that from now on you will be able to pick up our signals with fair strength.—E. Hampton (Radio KPO).

Ship Stations.

THIS may clear up doubt as to the identity of the phone stations frequently heard by listeners on 225 metres calling Melbourne. My information is from A.V.A., Ltd., Box 1272L, Melbourne, in response to a report I sent them about one of those ship stations. A few extracts from their letter:—"The station you heard on August 16 was VJNL, s.s. Noora, owned by the Adelaide Steamship Co. Their other vessels fitted with telephony are: Noora, VJNL; Oorana, VJNM; Millora, VJNK; Broadway, VJNS; Kapara, VJNT. They carry no operator, the captain acting in this capacity. All use the 225 metres wave, and are only about 250 watts power. They work radio Melbourne, VIM, on 670 metres, at 9 a.m., 11.18 a.m., and 6.30 p.m., Melbourne time, when they are at sea. There are also several lighthouse phone transmitters on 190 metres, and the most likely to be heard are at Cape Bruni, Tasman Island, Meatsuyker Island, Deal Island, and Clifty Island, at 9.30 a.m. and 4.30 p.m. I would appreciate reports on reception of any of the above."

—"Taipo" (Palmerston North). [The above communication answers many queries received this week, including "Amazon," "V.A.," "M.C.T."—Ed.]

European Stations.

BROADCASTING stations in Europe are increasing their power continually, and as RA42 Leningrad has been reported, it is possible that the station transmitting on 446 metres is Radio Roma, Rome, Italy, which uses a power of 50 kw. Three other powerful European stations are Stockholm, 436 metres, 60 kw.; Oslo, 493 metres, 60 kw.; and Moscow, 934 metres, 100 kw. I have received 53 stations on a three-valve set, nearly all through a wave trap. IZM Manurewa, comes in on the loudspeaker here on Sundays, when they transmit 11-12 noon, 1-3 p.m., 4-6 p.m., and 6 p.m. till 11 p.m. I have also heard the Los Angeles Philharmonic Orchestra from KFI, a station which comes in at good strength every Sunday evening from about 6.30 p.m. to 9.30 p.m. During this period they are "midnight frolicking."—"Reinartz" (Auckland).

Bucharest Calling!

M.B.S. (P.N.) is quite right. The station on 394 m. (760 kc.) is certainly Bucharest, Rumania. I have never had his call, but have caught "The Bucharest" several times in English and another language. I think the foreigner on 280 m. (1070 kc.) is a station at Bratislava, Czechoslovakia, with a power of 12.5 kw., relaying "Rosenhugel" of Vienna, Austria. Stations of 349 m. (860 kc.), is, I am almost sure, E.A.J.1, "Radio Barcelona," Spain, with a power of 20 kw. These stations are all between 10,500 and 11,500 miles away, so if we are right, it is certainly marvellous to receive them, although the New York stations, which are heard fairly frequently, are about 8500 miles away.—E. W. Anglesey (Nelson).

ARE there two stations in Manurewa, as I see in the "Record" 1ZF and 1ZM, but the clauses seem to contradict each other? I have logged 1ZM.—W.J.S. (Waiau).

Chinese Stations.

CAN anyone supply me with particulars as to frequency and time of operation of Chinese broadcast and short-wave stations?—"R.F.C." (Ohakune). [COMK, Mukden, 435 metres, 705 kc., and GOW Victoria, 300 metres, 1000 kc., should be heard after midnight. There are no short-wave stations to our knowledge.—Ed.]

Short-Wave Stations.

I HEARD the American station which operates on 31.28 metres at fair speaker strength. He gave the call WIXAC Springfield, Massachusetts, owned by the Westinghouse Electric Manufacturing Co. Several times he was heard calling WSXK, KDKA, and VK2-ME. Wednesday last, at 12 midnight, I heard another American, on about 29 metres. Call was given as KEB—, California, testing with JAA Japan. On about 50 metres I heard a station broadcasting gramophone records. After every two items announcements were made in Japanese, but no call was given in English.—W. I. Inglis (Lower Hutt).

ON Saturday, September 20, I resolved to try for the mystery stations on the B.C. band. Stations were heard at 4.30 a.m. on 212 m. (dial 2), 262 m. (dial 14), 281 m. (dial 20), 362 m. (dial 43), 395 m. (dial 52), 400 m. (dial 54), 408 m. (dial 58). Static was too severe to hear much, but the 262-metre station was R8 on carrier, but R2 only on voice strength. The announcer sounded foreign.—"Metre" (Huntly).

AFTER a long spell of bad reception, conditions, which, however, cleared up a little lately, I added 11 stations, including the following: VK41 Roscalli, VJMM; KECA Los Angeles, 210 m. (1430 kc.); WKBH La Crosse, Wisconsin, 217 m. (1380 kc.); and KGEF Los Angeles, 230 m. (1300 kc.). WKBH is marked in the "Guide" as not heard in New Zealand. He was still on the air about 8 p.m. on Wednesday, 17th., giving election results. Congratulations to A. Dryden (Poukika) on receiving RA42 Leningrad. I should think this is easily a record for the broadcast band.—Geo. R. Munro (Clevedon).

I HAVE recently heard one or two stations both on long and short-wave that have been unable to identify, and would be grateful if any D.X. enthusiast could enlighten me as to whether I've accidentally picked up Mars or some other planet. Between 5.30 p.m. and 6.15 p.m. on Sep-

tember 25 I heard four separate short wave stations which are new to my speaker. On about 29 metres at R6 a mar was heard talking with a very deep voice in English. On 31 metres approximately a station was on Duplex with some other station I couldn't locate, and the language spoken was English. WND, New York, was also heard on Duplex with a London station on 43 metres, and then with VK2MB, Sydney. On September 21 I picked up a foreign station on KTM's frequency, 384m.—(790 kilo). The talk sounded very much like Spanish, and judging by the noise, it sounded as though a bull fight was in progress. The only station that might be heard on this frequency is a station in Cuba. With regard to the stations Mr. Ellis and Co. have been hearing in the early mornings, they certainly are European stations—judging by the music and talk.

I have often heard various stations on the broadcast when getting up early for short-wave reception, but have not bothered much with them, thinking them to be only Australian amateurs. On September 26 I heard four of these stations. The stations heard were on the following wavelengths: 280 metres, 382 metres, 434 metres and 490 metres. Music was heard from the 280 metre station, music with a lady announcing at frequent intervals was heard from the 382-metre station, talk sounding very much like German was picked up from the 434-metre one, while music was being transmitted from the one on 490 metres, which is just below 4YA's dial number. Now, Mr. Ellis, "Kauspanka" and other members of the great D.X. organisation, it looks as if there's going to be some world's records broken in New Zealand if it can be proved that these early morning birds are of European origin. Go to it, then, D.X.ers, and put New Zealand on the map.—"Unconscious" (Timaru).

STATION, first heard on September 13, at R4, with orchestral music, on about 28.5 metres, closing down each afternoon at 2.30 p.m. After the music, a man sang in a foreign language, followed by more music. They then closed down without call. I heard them the following day calling Paris in broken English (strength R8). After that instrumental music was played, followed by "Hullo (repeated four times) Paris." A lady singing a solo in a foreign tongue was then heard, and at 2.20 p.m. he called Berlin. He closed down without call. I heard the new Java station, PLW, calling VK2ME, one night recently. Both were R9.—"Metre" (Huntly).

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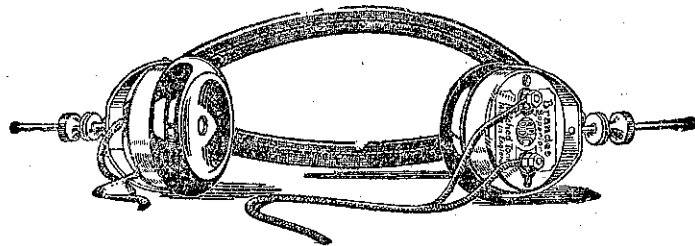
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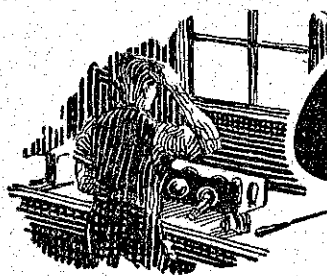
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Questions and Answers



KILJO (Invercargill): Can a blasting loudspeaker be remedied?

A.: The blasting may be due to several factors—the speaker may be totally inadequate to handle the volume you expect it to; there may not be a power valve in the last stage, and the bias may be unsuitable. You may be expecting the set to carry too much; and some of the batteries may be flat, particularly watch the "C" battery.

2. I am troubled with a hissing noise. Is it the fault of the aerial or the valves?

A.: Remove the aerial and see if it persists. It may be due to electrical interference, or a defective component. It is probably not due to valves being unbalanced. The set may not be neutralised.

3. Would an eliminator be of any use?

A.: An eliminator would give you a constant supply of "B" current without the worry of batteries. You would prob-

ably be able to get much higher voltage than would be practicable with batteries.

DETECTOR (Invercargill): Can an ordinary crystal detector be used in the place of the semi-permanent detector shown in the Radcord crystal set in the 1930 "Guide"?

A.: Yes, but you would have to alter the lay-out slightly.

KILOCYCLE (Bluff): Can you tell me how to add a stage of screen grid r.f. to a four-valve B.D.?

A.: We have forwarded you your sketch with the screen grid valve shown. It will be necessary to shield each stage of r.f., and the detector or the coils and the screen grid valve in cocoa tins.

2. Have you a circuit of a screen grid booster?

A.: We do not advise the use of a s.g. booster. It was a good expedient before the use of the s.g. valve was properly understood. It is now better by far to incorporate this valve in the receiver itself. It may be used in either the first or the second stage and should for preference be transformer coupled with about 25 turns on the primary, when a 2 1/2 in. former is used.

3. How many turns would a 409 require on a 2 1/2 in. former?

A.: About 12.

4. When I put more than 16 or 17 volts on the detector the second last stage motor boats.

A.: Reverse the connections to the primary of the first audio transformer and if this is unsuccessful try the second audio. It may be that you are drawing too much from your eliminator.

5. For local reception I usually use PM4 in the first audio.

A.: This is quite wrong. A general purpose valve will be quite sufficient.

"THIRTY-THREE" (Timaru): When I connect a pick-up to my set a whistle is heard in the speaker and the music becomes distorted as though the speaker cannot carry the volume.

A.: Perhaps you had the volume control turned on too full. If this is not the case see the dealer who sold you the set and ask him if you have connected the pick-up correctly as you do not give us sufficient details.

2. Can I use a short-wave adaptor on my set, and where could I obtain one?

A.: If you do not care to make your own, communicate with Mack's Radio, Wellington, who are specialists in short-wave sets.

3. Which is the better pick-up of the two I mention?

A.: Sorry, but we cannot discriminate between two commercially-made products.

"GAINING EXPERIENCE" (Queens-town): If I remove some turns from my coil would the lower limit of the tuning range be lowered?

A.: Yes, but you would clip off some of the higher waves. Your best plan would be to get specifications of coils for the wave band you wish to cover. If you let us know the capacity of the condensers and the size of formers we would design them for you, but try your dealer first.

2. I have two plug-in coils; which one should I reduce?

A.: You must take an even or proportionate number of turns off each secondary coil.

3. When I connect the pick-up across G. and F. of the detector valve my tuning was altered about 10 deg.

A.: This was due to the extra capacity the pick-up introduced into the grid circuit. Providing you disconnect this apparatus when it is not in use your tuning range should not be affected.

"LONGWAVE" (Auckland): What voltage should I use for a two-valve set to get really good results?

A.: As high as possible, but if you are using batteries 135 is a practicable value.

2. Can I obtain a copy of the "R.R." containing a description of "R the W Two"?—Yes, from our office.

3. If I construct a R. the W. two, how

far should I be able to get on the loudspeaker?

A.: Not very far, as the set is primarily designed for phone work. Do not be disappointed if you do not get any short-wave stations on the speaker satisfactorily.

4. What valves would be needed?

A.: The two you have should be satisfactory if they are of the 201A type.

PICKUP (Eastbourne).—I am building an amplifier with two stages of push-pull. What is the nearest ratio of Ferranti output transformers to supply a unit with a resistance of 1300 ohms?

A.: Use an output transformer with a tapped secondary, and see which one suits your receiver best.

2. If I use two of these speaker units would the ratio need altering?

A.: Yes, and herein lies the value of the tap transformer.

3. I intend using a trickle charger to supply the filament current. Would you give the specifications of a suitable choke?

A.: You will find a fairly full description of a suitable choke on page 65 of this year's "Guide." If you have not a copy and cannot borrow one, write us again and we will reprint the article in the "Record," as quite a number have asked for it.

4. What is the approximate capacity per sq. ft. of surface of first-class aluminium, and also the best solution for a condenser?

A.: Your question about the capacity of aluminium is most indefinite. A short

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LOFTIN-WHITE AMPLIFIERS	Stewart Hardware Ltd.,
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MAJESTIC RADIO RECEIVERS	Kirkcaldie & Stains,
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	40-42 Willis St., Wellington.
RADIOLA RECEIVERS and Expert Radiola Service.	Farmers' Trading Co., Ltd.,
	Hobson Street Auckland.
STEINITE RADIO	G. G. Macquarrie, Ltd.,
	120 Willis St., Wellington.

COUNTRY TOWNS

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	G. S. Anchor, Manager.
PHILIPS VALVES AND APPARATUS	All Good Radio Dealers.

time ago we published an article about electrolytic condensers. You should find all the information you require in that. Regarding the making of the condensers, we regret that this is not suitable for amateur construction, and we have been asked by the authorities to draw attention to the dangerous nature of such experiments.

N.H. (Te Awamutu).—What book would be suitable to assist me in the construction of a three-valve set?

A.: The "R.R." of February 28, and March 7, "Round the World Two" and "Three," two very successful sets, are described. If you do not require the short-waves, you could make only the broadcast section.

POWER-VALVE (Palmerston North): There are three rheostats on my home-made set, but the one controlling the detector is the only one of any use to control the volume. How can I make the other two work?

A.: You could use a 30 ohms. rheostat on your radio valve, and none on your audio, or a better way would be to control volume by means of a 500,000 ohms. resistance between the aerial and the earth. The most successful system of volume control is by increasing the bias on the radio valve. This is the method incorporated in most of the new American a.c. sets.

W.Q. (Whangarei): My electric set distorts badly. Should I change the valves?

A.: No; consult the dealer who sold you the set.

S.N.K. (Miramar): I cannot understand the references to time expressed like this—400 to 800 G.M.T. How does this correspond with New Zealand?

A.: For scientific purposes the clock is regarded as being graduated from 0 to 24 hours, commencing at midnight. Four figures are used to express hours and minutes, e.g., 4 a.m. should be written 0400, whereas 9.45 p.m. should be 1745. The G.M.T. refers to standard time at Greenwich, near London, and is a basis for calculating time throughout the world. Every country is so many hours ahead or behind this—time is based on geographical position. Our DX clock would simplify the reduction of times to New Zealand standard. The numbers you quote, 800, 1400, and 1800 G.M.T. (allowing one hour summer-time in England), are 8.30 p.m., 2.30 a.m., and 6.30 a.m., New Zealand time.

QUERISTS (Napier): What is the value of a condenser with 21 plates?

A.: This is an unusual size, and is probably either .00035 or .0005. If the plates are large it is the latter.

2. How many plates should be removed to alter the value to .0002, and would double spacing be an advantage?

A.: Eleven plates are required for a .0002 condenser, and double spacing would certainly be an advantage, but you would need less plates. The easier plan would be as you suggest to use a series condenser of .0045 or .008, according to the capacity of your condenser.

3. What is the diameter of a test-tube?—About $\frac{1}{4}$ in.

DARAMA (Palmerston North): Can an a.c. short-wave adaptor be used with an a.c.?—Yes.

M.E. (Nelson): Will you explain how to make a saturated solution of bluestone for the Daniell's cell charger?

A.: Take about half a pint of water,



MR. WILBUR DAVIES
Who will assist the Methodist Church Choir, Lower Hutt, during their concert to be relayed from 2YA on October 5.

—S. P. Andrew, photo

preferably warm, and add the bluestone crystals, stirring all the time. Leave them to soak, and when they have disappeared add more until you reach the point where additional crystals will not dissolve. You will require about a pound of bluestone for the six jars.

2. Will six cells be enough to keep my battery charged?—If it is a four-volt one, yes.

3. My set works best with the detector rheostat turned a quarter on. Why?

A.: At this point the valve is heated to its optimum temperature and further increase does not improve matters.

AJAX (Auckland): I enclose a circuit. Is it suitable for New Zealand conditions?

A.: It should be quite an interesting circuit to try out, though it will not have the amplification that a B.D. type of set would have with a stage of screen-grid r.f. transformer coupled.

2. Are the coil windings correct?—Yes.

3. Could L2 be wound on L3? If so, how many turns?—Yes, 20.

4. Are L2 and L3 wound in the same direction?—Yes.

5. Is my valve combination correct?—Yes.

G.G.L. (Palmerston North): I enclose a circuit which I have pieced together. Would it be satisfactory?

A.: When one sees your set there is a strong temptation to quote Grey—"Let not ambition," etc. You would be very lucky if you managed to get this set working. Two stages of screen grid should be ample for your requirements, for you must realise that when a certain point is reached the amplification of noise is increased to such an extent that the gain one way is offset by the other.

2. Is the power supply adequate and are the coils satisfactory?

A.: Yes, these seem to be quite in order, but we advise you to use smaller formers, say 2in.

3. Is the volume control satisfactory—a 200,000 ohms resistance across the first transformer?

A.: It would be better to incorporate some form of v.c., which prevents overloading the detector. Adjustable bias on the s.g. valves would be better.

4. Is the coupling between the stages correct?—Yes.

NOTE.—Your results would be better if you used anode bend detection.

OPTIMUM (Wellington): I cannot get more than the local station, and then only very poorly. I am using a screen-grid four-valve set. When the s.g. valve is moved from the socket there is no difference.

A.: Bring in the aerial to the grid of the detector valve, and see how reception compares with the full set. No doubt there is something wrong with the screen grid stage. Do you have the connections made correctly? The plate in your valve is at the top. Check over the wiring once more and look for dry joints. If everything is in order have the s.g. valve tested. The list of valves you append are not entirely satisfactory. You have not stated the order in which

they are placed. If one is to take it that if they are in the order nominated in your letter you will no doubt be encountering trouble on this score. B205 is a last stage valve, A209 first audio, and A225, if anything, detector, though A215 would be a far better valve for this socket than 225.

2. What stations should I be able to receive on this set?

A.: This depends on your locality, but you should be able to hear Australian and Japanese stations quite easily.

A.TOM (Wanganui): I am a little disappointed with my set, for when I attempt to increase the volume there is a terrific noise. A hospital with an X-ray plant is not more than about a mile away, and freezing works are also

LISTENERS must attach this coupon to all queries sent to the Technical Editor (Box 1032, Wellington). Questions arriving without it are likely to go astray or be delayed.

Name of set

Number of Valves

Name

Address

Nom de plume

To be kept in subsequent inquiries.

Date

Please Note:—

- (1) Be specific and brief, tabulating, if possible.
- (2) Write legibly, and on one side of the paper.
- (3) We do not design circuits, but accept suggestions for feature articles.

Solving trouble, as different from advice, is difficult by correspondence and while letters are given every consideration, answers are not necessarily correct—they are only our opinion based on the matter supplied, which may be quite inadequate. Intricate and involved specifications cannot be supplied without a specialist's fee.

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handy. What steps can I take to reduce the noise? I cannot get the Australian stations in the daytime, nor the American stations.

A.: You appear to be in a very bad area and the noises are due probably to electrical interference over which you have no control. Take off the aerial from your set and then turn it up to its maximum point. If you get any noise then your set is probably defective and you should call in the agent who sold it to you. If it is outside interference you might approach the hospital and ask them to take steps to prevent the noise. It can be reduced by a suitable filter.

LAMBDA (Wellington): How is a midjet condenser placed in parallel with the tuning condensers?

A.: You connect the fixed plates of the midjet to the fixed plates of the tuning condenser of your set, and the moving of

each to one another. A midjet condenser will contain 7 to 9 plates.

2. When the detector is just about to oscillate there is a tingling sound when the table on which the set rests is touched.

A.: Use a non-microphonic valve socket, or, preferably, see the expert of the firm who handles your sets.

HUM (Blenheim): I am troubled with noise which I think I picked up from high-tension lines which run about 30 feet from our aerial. A pole nearby sends out sparks on a wet day. The power board engineer said we could always get noise if we are near high-tension wires.

A.: The sparking should be prevented, as it is a very lively source of interference. It can quite easily be overcome, and if you have not mentioned this to the power board engineer do so immedi-

ately. A certain amount of noise will always arise from high-tension lines.

J. C. (Dunedin): I have an old model battery set and wish to know if the enumerated combination of valves is satisfactory.

A.: It is decidedly unsatisfactory, providing they are placed as you indicate. B605, first radio, and A609 first audio, should be interchanged, but make quite sure B605 is not now in the power position. You should use A609 not A409 for a detector. B605 with 100 volts should have a bias of 9 volts at least.

STINGY (Petone): I wish to get better results from my set. Would a change to other makes of valves improve matters?

A.: No, if you are using the same make of valves as your set you are using the best possible. If you think your results are unsatisfactory, call in one of the experts of the firm who run these sets.

2. Does the DX Club imply the use of short-wave receivers?—No; ordinary broadcast.

O. K. (Napier): How can one obtain a license for operating a B class station, and what is the cost?

A.: It is necessary to pass an examination set by the P.M.G.'s Department; for information write District Radio Inspector, Wellington.

2. Can a semi-power valve such as DEEP 410 be made to oscillate?—Yes.

3. Can an a.c. directly-heated valve be used in a transmitter of, say, 2½ watts?—No.

4. How many volts would be needed on the plates of the oscillators in a 2½-watt transmitter?—Approximately 250 volts 20 m. amps.

MICROAMP (Gisborne): How can two rectifying valves be connected to the a.c. mains without a transformer?

A.: To do this would be contrary to the regulations. A transformer with a separate primary must interpose between the mains and any radio apparatus.

2. What is the inductance of the following filter?

A.: The sum of the separate inductances. Do you know that as it is at present it contravenes the regulations?

3. Would two chokes be better as a filter if used in parallel and how would this affect the inductance?

A.: The total of inductances in parallel is equal to the sum of the reciprocals of the separate inductances and in series to the sum of inductances.

Note: We advise you to construct a "B" supply on orthodox lines, as details of such a system are always readily available.

A. F. (Gisborne): Can a screen-grid valve be added to the R. the W. Two?

A.: Yes, see the description in the 1930 "Guide" on the screen-grid short-wave set.

2. The set goes in and out of oscillation with a plop.

A.: A short time back we had an article dealing with troubles on short-wave such as this. Try varying the "B" voltage, the capacity of the grid condenser, and even change your detector valve, preferably to one of the special detectors.

E. J. H. (Napier): Would I get better results with my three-valve kit set by adding another stage or by using six-volt valves?

A.: Six-volt valves would give you slightly stronger signals, but adding another stage would be better. An additional stage has been described in the "Radio Record" recently.

B. S. D. (Wanganui): Will the voltage divider in "Megohm's" 250 power pack have to be changed if a Raytheon valve and the 250-volt tap is used?

A.: Leave out the extra resistance of 12,000.

2. Would a Raytheon B.H. supply enough current for two 245's in push-pull?—Yes.

3. What will be the resistance to break down the current for (a) one 227 in the amplifier and two 227's as radio and detector?

A.: For the audio valve 4500 ohms and for the other valves 2000 ohms. The two resistances are connected in series, the 4500 ohms first.

4. Will the bias potentiometers have to be altered?

A.: For bias for 245 about 1000 ohms variable would be required. The two 400-ohm potentiometers could be wired in series, one made variable and used for the two 245's.

5. Would any part of the pack need altering?

A.: Only the chokes, which should have a smaller gap.

6. With the original pack was it possible to get 130 volts grid bias—by using 250 valves?—Yes.

7. Where will I have to tap the secondary to get 250 volts rectified and smoothed?

A.: At the 1800th turn.

8. How many turns and what gauge wire will I need to supply 2.5 volts for a torch bulb pilot light?

A.: Sixteen turns of 30 d.c.c.

9. How many pieces of each size stallo are required for the transformer?

A.: This depends upon the thickness of the stallo. If you ask the dealer for stallo of the two sizes, each enough for a pile 2½ inches high, you will get the right amount.

10. I wish to use the metal rectifier to supply speaker current. Can I have a winding on this power transformer to supply the eight or nine volts necessary? If so, what size and covered wire?

A.: You will require 55 turns of 26 gauge d.c.c. wire.

11. Will the gauge of primary wire need to be changed for this?—No.

12. Where should this winding be?—On the outside.

13. Would I get better results from the speaker if I used a separate transformer?—Not necessarily.

T. G. N. (Lower Hutt) asks certain questions regarding an A and B trickle charger described in the "Radio Record" some considerable time ago.

A.: We regret that we cannot now advise constructors to make this piece of apparatus, as we have received advice from the electrical supply authorities that apparatus of this nature presents a certain danger and should not be made. Your best plan would be to make a charger such as described in this year's "Radio Guide."

OKAPUA (Gore-Chatterton): When I attempted to advance the volume control, especially if I am operating on the lower wavelength, the set sets up a vigorous howl which stops if I hold my hand over the second radio valve.

A.: Your set is not neutralised. If you can locate the neutralising condenser adjust the one controlling the second radio valve slightly until this trouble disappears.

W. T. C. (Timaru): Please supply particulars for building a transformer for stepping current down from 230 volts a.c. to 180 volts, to light thirty-three six-volt lamps in series.

A.: You have not stated the amount of current to be taken by each lamp. The transformer would have a core 1½ x 1½ with 1070 turns on the primary and 1025 on the secondary. The gauge of

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D.C. Eliminators, Small and Large

How to Run Plate and Filament from D.C. Mains

By "MEGOHM"

FROM time to time inquiries are sent in for particulars of battery eliminators for direct current mains. As there are quite a number of areas where the supply is direct current, this article has been compiled to show different methods of dealing with these conditions, so that constructors and experimenters, large and small, are catered for. The article, beside giving specific circuits, is intended to illustrate principles so that constructors may make up a circuit to suit their own needs. Constructors are recommended to read the whole article through, because in some cases hints are given regarding one circuit that may also be useful in another.

Street," has to deal with the problem of an earthed positive main.

The earthed main is found by connecting one side of a lamp to earth, and with a wire from the other side, insulated except at the end, touching each main connection in turn, but only momentarily. The unearthed main gives a bright light, and the earthed main none, or a dull glow that indi-

cates a few volts above ground potential. Polarity is then formed by one of the tests that have been published from time to time. The regulations stipulate that any operation such as this where the mains are interfered with, a certificated wireman must perform the operation.

General Considerations.

THE desire of the radio enthusiast will be to run his receiver entirely without batteries, and whilst it is quite possible to do this, it usually pays to bias the anode bend detector with a dry battery if there is any difficulty in getting rid of a small residual hum.

The eliminator may be intended only to supply plate current, or it may sup-

ply filament current as well, and in either case grid bias for at least the last audio stage. For either style of eliminator the best procedure is to construct a separate unit so that it may be placed a short distance away from the receiver, thus minimising any chance of the grid circuits, especially the detector, picking up hum from the smoothing equipment.

Filament Current.

THE usual method of filament heating with completely "d.c. mains" operated sets is by connecting all the filaments in series. This is better than parallel for several reasons. This arrangement, however, brings to light one of the limitations of complete d.c. working. On account of the filaments all being placed in series, it is necessary that the amount of current taken by each should be equal and preferably not too great. The average a.c. mains-operated receiver requires at least 100 watts from the mains, and in this respect the d.c. operator should not expect to obtain good results unless a reasonable amount of current is consumed.

Current at 230 volts costs just twice as much per ampere as it does at 110 volts, so that the 110 volts circuit will supply a half-ampere at the same cost as a quarter-ampere on a 230 volt circuit, though the watts consumed will be (practically) the same in each case. With a half-ampere available, filaments taking .25 amp. may be wired in parallel in pairs, each pair being placed in series, so that push-pull will then have no complications regarding grid-bias. For the sake of economy it is well to restrict the consumption on 230 volt mains to a quarter-ampere, which is equal to the ordinary household 60 watt lamp, as there is little to be gained in practice by doubling the consumption.

Circuits have been published to work with a consumption of only 0.1 amp., but this is unnecessarily low, and has

too restrictive an effect upon the type of valve that may be used in the last audio stage.

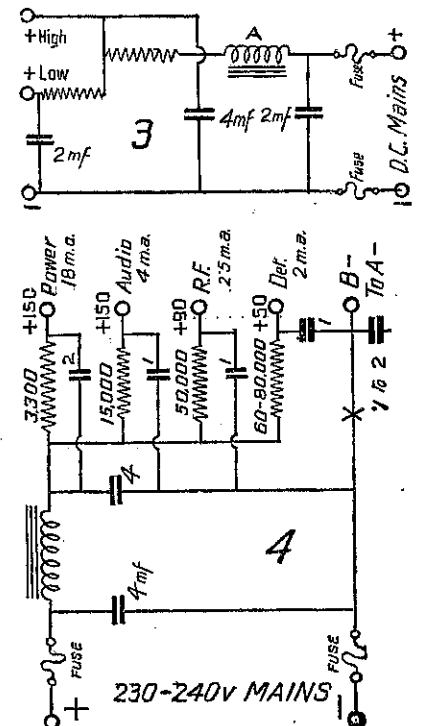
Anode Bend Detector.

THE detector, as in A.C. sets, is liable to pick up a certain amount of hum if of the grid-leak type, and for this reason an anode-bend detector is recommended. Experimenters need have no apprehensions about converting to anode-bend detection on a multi-valve set. This is now known in America as a "power detector," and is being widely used. The writer has had it in use on the two r.f. Brown-Drake over a long period with marked success. If a grid detector is used, the grid condenser must be placed on edge, that is in a vertical position, and not horizontally, screwed down to the baseboard, as is sometimes the case. Whether the grid-leak is retained or not, the lead to the grid terminal of the valve-socket should be kept as short as possible, and away from other leads.

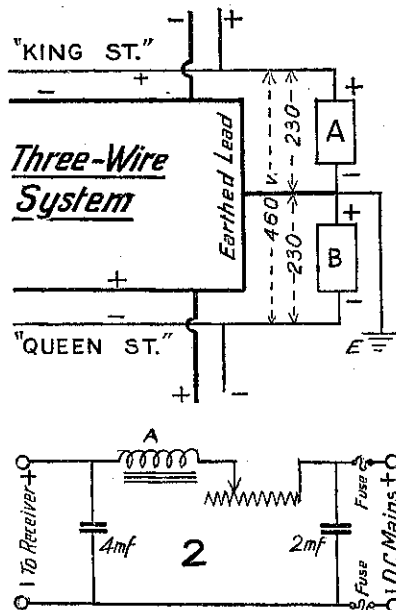
Plate Voltages.

ANOTHER point to be borne in mind is that when filaments are in series, the plate current for all valves returns through the filaments, and if the plate current of the last valve is heavy, must be taken into account. For this reason some circuits are arranged so that the plate current of the last stage is returned without traversing all the preceding filaments.

When all plate voltages are taken from a common resistance such as a voltage divider there is a chance of "motor-boating" developing, and in order to avoid this it is good practice to have a separate resistor for each plate, so that there is less chance of unwanted coupling.



Full B Eliminator



icates a few volts above ground potential. Polarity is then formed by one of the tests that have been published from time to time. The regulations stipulate that any operation such as this where the mains are interfered with, a certificated wireman must perform the operation.

General Considerations.

THE desire of the radio enthusiast will be to run his receiver entirely without batteries, and whilst it is quite possible to do this, it usually pays to bias the anode bend detector with a dry battery if there is any difficulty in getting rid of a small residual hum.

The eliminator may be intended only to supply plate current, or it may sup-

UNFORTUNATELY suitable direct-current supply is not available in Wellington for experiment of any kind, but for some time the writer has been gathering literature on the subject, from various sources, until he has been enabled to design the "full plate and filament supply eliminator," described at the end of the article. This is designed to work on the standard 230 volts (or 240) as available in New Zealand. This will be found not too costly in running expense, and will perform much more satisfactorily than circuits designed to use .1 amp. valves, which unduly hampers the output stage.

Although in the use of direct current for radio work, there is not the necessity for rectification which accompanies the use of alternating current, yet the use of d.c. from the mains is not always the straightforward problem that it should be when considered on a theoretical basis. Whereas alternating current may be stepped up or down in voltage, rectified and smoothed, the direct-current supply has its limitation from the fact that the voltage available is no greater than that actually provided by the mains. This is less of a disadvantage when the mains voltage is 230, than when it is only 110.

Most towns using d.c. are wired up on the "three-wire system," which must be briefly explained in order to acquaint readers with the reason why the supply in some houses has the positive main earthed, whilst in others the negative main is earthed.

When the latter is the case, the problem of radio supply is a simpler one.

The Three-wire System.

IN Fig. 1, A and B are two generators at the power-station, connected in series just as two accumulator cells would be. Each generator gives 230 volts, and the connecting-wire between the two is earthed, a wire from this point being also led along every street. Along main streets there will also be a cable from the outer end of each generator, and a supply taken across these two gives 460 volts for factories. Up residential streets the earthed wire and only one of the outer wires is led, the aim being to get half the 230-volt load halved on each generator. Looking at the diagram we can see why a person living in "King Street" finds that the negative main is earthed, while his friend living in "Queen

wire would be that necessary to carry the current of one lamp as they are to be used in series. Full details on transformer construction can be found in the 1929 "Guide."

2. Can a 230 volt a.c. dynamic speaker be used with a battery set using an eliminator?

A.: If you mean one that uses a rectifier, yes. It is necessary only to connect the a.c. mains to a suitable lighting point.

J.J. (Dunedin): Can a wave trap cut out 4YA and bring in 2YA when the two are separated by one point on the dial?

A.: It is very doubtful, especially as you are right in Dunedin, but you could try the wave trap in the 1930 "Guide."

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The principle of obtaining grid-bias for any valve is to connect the particular grid to a point on the filament wiring that is more negative by the required amount. If objectionable hum is encountered by this method, provide additional smoothing, or bias with a dry battery. Some mains are difficult to smooth and may require a choke in both positive and negative leads. If there is only one choke, it is always in the "live" or unearthed lead.

Particulars given in this article are for a voltage of 230, but will cover the range from 220 to 240 volts if a corresponding adjustment is made in the resistance in circuit.

In special cases where a voltage-divider is used across the mains, the total resistance should be not less than 20,000 ohms, that is, considerably higher than is used in the average A.C. eliminator.

Needless to say, insulation must be good throughout the receiver, and a fuse of thin copper wire, say, 38 gauge, must be placed in each lead from the mains, along with a well-insulated double-pole switch, which will be found handy when making adjustments. No live connections must be allowed outside the panel, so that when the receiver is working, enclosed in its cabinet, there is no liability of a shock being experienced by the operator.

Whether shown in the diagrams or not, connection to loudspeaker or 'phones should be either through an output transformer or a choke-filter, in which latter a condenser is placed in both leads. When the latter method is used, it must be remembered that the condensers are in series, so that their values are halved, so double the usual capacity must be used for each. At least 500 volts test, and not less than 2 mfd. each. If low notes are missed, increase the capacity to 4 mfd.

At this point we shall have to leave the discussion till next week.

Building Eliminators

BEWARE of the crudely built home made eliminator. A Melbourne writer says:—"A well-designed battery eliminator, properly used, is a perfectly safe part of the receiving gear. One can rely absolutely upon the products of well-known firms. The type of eliminator to avoid is that put together by someone with little or no knowledge of electricity or of the precautions required when the lighting mains are used for supplying current to the wireless set. The writer has seen in recent months several eliminators which, to say the least, were positively dangerous. Most of them were turned out by ambitious youngsters in their spare time with a view to earning a little extra money. Plain brass terminals, paper dielectric condensers intended only for comparatively low voltages, leads of the commonest and most poorly insulated and most inadequately shielded.

HAVE you renewed your subscription to the—

"Radio Record and Electric Home Journal"?

12/6 in Advance; 15/- Booked.
BOX 1082, WELLINGTON.

The Beverage Aerial

Some Definite Information

RE "Switch's" query regarding the Beverage aerial, E.M.W. (Christchurch) writes: The following is taken from the Christchurch "Star" several years ago:—

"Avoiding technicalities as far as possible, let us start with the actual transmitting station. This sends out a series of waves in all directions. These waves have been measured from crest to crest and the length ascertained and described in metres (one metre equalling, roughly, 39 inches).

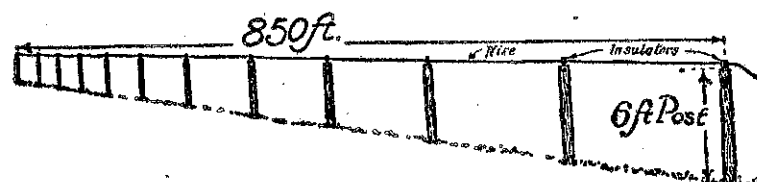
"It might be more accurate to say that it is the distance from the lowest trough of one wave to the lowest in the succeeding wave, that is measured—hence 3YA on 306 metres means that the distance from the crest to the crest of the following wave is

bay are preferred the aerial should be run out directly north-west from the house. If Americans are preferred the direction would be almost north-east."

I have never tried this aerial, but for anyone with plenty of space at their disposal I think it would be well worth trying.

ANOTHER description has been taken from an old publication and forwarded to us by a Wellington correspondent:

"The Beverage Wire"—This modification of the single wire antenna, proposed by Mr. H. H. Beverage and described in United States Patent No. 1,381,089, has for its principal object the reduction of interference from static and other stations by means



306 metres, or, approximately, 331½ yards. Now, if you construct an aerial 332 yards in length, every portion of one complete wave from 3YA will fall once on that aerial and you will obtain every particle of energy it is possible for that wave to give you.

"The length will be slightly greater than the length of the wave of the station farthest up the wavelength scale possible of reception by your receiver. In other words: If your set covers stations broadcasting on anything between 200 and 600 metres and you wish to hear a station at the top of the scale (say 550 metres) your Beverage will have to be 551 metres (roughly 597 yards). That length will also take care of the stations whose wavelengths are less than 550 metres.

"The height is not at all important. It must, of course, be off the ground. The wire could be laid along the tops of posts forming a fence (in a straight line) so long as the wire was insulated from contact with the post. Any old wire seems to be good enough.

"One enthusiast uses 14 or 16 s.w.g. galvanised iron ordinary fencing wire, strained by a fencing strainer. The aerial (a) must be all in one piece; (b) must be in a straight line; and (c) must be earthed (through a resistance of 750 ohms) at the far end. As a resistance of this value is not easily obtainable, two 400-ohm potentiometers in series would do. By moving the sliding arm of the second potentiometer you will obtain a total resistance approximating 750 ohms.

"Then the lead-in must be insulated on its way to the set, exactly as in the case of the normal aerial. Finally, as the Beverage is acutely directional it must be located so as to point in the direction from which signals are principally desired. If Indian and other stations between the listener and Bom-

of its sharply directional characteristic. It consists of a single horizontal wire of equal length to the wavelength to be received (or an integral multiple thereof).

"One end of this is grounded through a resistance approximately equal to the 'surge impedance' of the line (200 to 600 ohms for a line about 10 feet high, No. 16 s.w.g. wire, at radio frequencies), and the other end is connected through an inductance to the ground in the usual way. The receiving apparatus may be coupled to this inductance.

"The system has theoretically a well-defined directional characteristic, and receives best from a direction toward the end grounded through the resistance. The inductance to be used may be of the order of 100 micro-henries for the 200-metre system. The chief merit of this antenna resides in its directional properties and the immunity it provides from static disturbances; a theoretical examination shows that as an antenna it has no special virtue, at least over ground of average conductivity.

"But the directional property may be frequently of great use; an example of this was furnished by the recent trans-Atlantic tests conducted by the American Radio Relay League, in which the antenna was employed with some absolute success in receiving the signals.

"A very complete and understandable discussion of this antenna has lately appeared, and the reader is urged to consult this article: "The Wave Antenna for 200-Meter Reception," by H. H. Beverage, QST p. 7. November, 1922.

"The surge impedance of a line of these dimensions is approximately 550 ohms. The latitude 200-600 ohms is prescribed to allow variation."

Short-wave Notes

VORZ Vienna Off the Air.

THE Vienna short-wave transmitter which up till recently has relayed several times weekly the studio programmes on 25 and 49 metres, has suspended its broadcasts indefinitely.

OK1MPT, Radio Elektra Mars.

AT Hlubetin, a small town some three miles east of Prague in the direction of Brno, the Czecho-Slovak Ministry of Posts and Telegraphs has installed an experimental short-wave station. Broadcasts of gramophone records and of information of interest to amateur wireless transmitters, are made on 58 metres between 7 a.m. and 9 a.m., New Zealand time, every Wednesday and Saturday. All announcements are given out in the Czech, German, French, and English languages. The official call-sign OK1-MPT, but during broadcasts at intervals the name of the station is mentioned; it is Radio Elektra Mars.

High-Power Short-Wave Transmitter for Spain.

NEW plans have now been formulated for the reorganisation of the Spanish broadcasting system. The latest scheme provides for a 30-kilowatt transmitter at some spot approximately in the middle of that country, four 15-kilowatt stations at Madrid, Barcelona, Valencia, and Vigo, and a high-power short-wave transmitter to relay the capital programmes.

PK3AN Sourabaya, Java.

THE Sourabaya Amateur Radio Society would greatly appreciate reports from listeners in regard to reception of their short-wave transmitter, 3AN, on a wavelength of 49.7 metres. They request that listeners forward their reports to the secretary, Mr. H. Budding, jun., Balistraat 20, Sourabaya. 3AN as a rule, starts too late for the average listener. The writer heard them recently commence about midnight with several records. At 12.10 a.m. a clock chimed, and struck eight. This was followed by the Dutch National Anthem, and then talk in this language. Volume was R9. They sometimes commence one hour earlier.

The Log

Stations Heard During Week Ending September 27, 1930.

3RO Rome, 80 metres. Very weak now at 7.30 a.m., but is always very clear and steady. Heard each morning.
RV15 Siberia, 70 metres. Full speaker volume every evening from about 9.30 p.m. On Thursday and Friday only one stage of audio was required, the volume being too much with two stages. Static has not been so bad on this station recently.

W9XF Chicago, 49.83 metres. On Saturday and Sunday, "The Voice of Service, Chicago," was heard from R3 at 4 p.m., increasing to R8-9 by 5 p.m.

49.8 metres (about). A station was tuned in on about this wavelength on Saturday night at 11.30 p.m. Volume was R5, with foreign talk, which, I think, was Russian. Music was heard later.

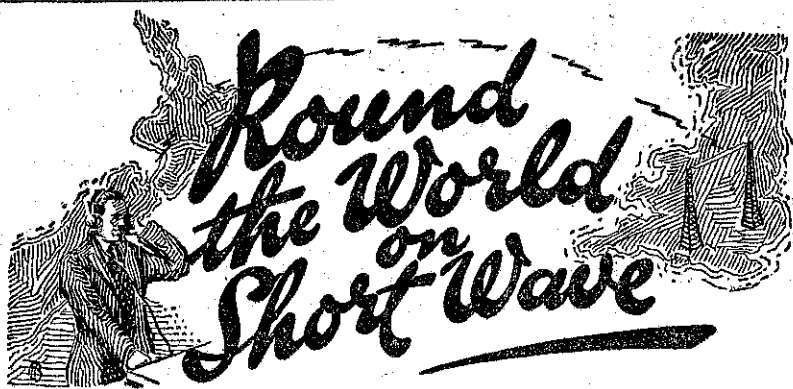
PK3AN, Sourabaya, Java, 49.7 metres. Tuned in about midnight on Saturday. Details given previously.

W8XAL, Cincinnati, 49.5 metres. Just audible from 4 p.m. on Saturday.

W9XAA, Chicago, 49.34 metres. Saturday and Sunday, R5 being maximum volume, with a noisy background.

W3XAL, Boundbrook, New Jersey. Sunday R6 when signing off at 4.30 p.m. Saturday up to R9 at the same time.

Radio Saigon, Indo-China, 49 metres (about). Heard first at 11.45 p.m. on Saturday. Received at R9. They were



THIS page is conducted in the interests of shortwave enthusiasts. A weekly log comprising notes of reception and interesting topical events is contributed by Mr. F. W. Sellens, Northland, Wellington, but all listeners are invited to send in paragraphs of general interest.

apparently testing, as parts only of records were transmitted, with slight pauses between. Talk was heard later—not any English.

K1XR, Manila, 48.8 metres. Each evening except Monday, from 9.30 p.m. Volume R8-9, with medium static, except on Thursday and Friday, when strength was up to R9 by 10 p.m.

37.4 metres (about). At 10.15 p.m. on Tuesday, a foreigner was calling "Allo," and what I took to be counting. No call was heard, but think the station was HS4PJ, Bangkok, Siam.

CXY, Lyngby, Denmark, 31.6 metres. Was R3 at 6.30 a.m. on Thursday.

W2XAF, Schenectady, 31.4 metres. At 1 p.m. on Saturday, they were R3. When tried for a little later, they had closed down.

Zeesen, Germany, 31.38 metres. Saturday was the only morning this station was good. R9 from 6 a.m. till 6.30 a.m., decreasing to R7 by 7 a.m., and up to R8 by 7.30 a.m. On the other mornings volume was below the average.

PCJ, Eindhoven, Holland, 31.28 metres. Thursday, R8 at 6.30 a.m. to R4 at 7.30 a.m. Very gushy. Very weak on Friday. Saturday R9 at 6 a.m. to R3-4 by 7.30 a.m. On Saturday afternoon PCJ was R2-3 at 2.20 p.m., but not heard again till nearly 5.30 p.m., when strength was R6.

LSH, Buenos Aires, 29 metres (about). Sunday and Saturday. R2 at 1 p.m., increasing to R9 by 2.30 p.m. They closed at 2.40 p.m. on Sunday, and 2.35 p.m. on Saturday. Reception is very good. All talk is in Spanish.

VK2ME, Sydney, 28.5 metres, and GBP, Rugby, 27.7 metres. Telephone service morning and afternoon.

G5SW, Chelmsford, England, 25.53 metres. Has been heard each morning, but rapid fading has spoilt reception.

25 metres (about). On Wednesday at 10.10 a.m., foreign talk was heard at R8. Another station on about 24.5 metres was heard at the same time at R4, also foreign talk.

Short-Wave News

MR. A. P. MORRISON (Brooklyn) contributes some interesting facts regarding short-wave stations heard in New Zealand. He has just received another letter from NRH, the remarkable 7½ watt Costa Rica station. An excerpt from that communication reads:—

"The metronome is only a small mantle clock and its tic-tac is what you hear. I use this exclusively for the noise, which has been reported from many nations. I transmit for the fun of it, and I carry no advertisements, for NRH is an exclusive amateur radio station under my care, prized by many fans, and by my Government, who help me some way or other. I am every day transmitting, therefore I beg you to write to my papers that I do it for two hours, 4 to 5 p.m., and from

8 to 9 p.m. C.S.T. in America. (The 8 to 9 p.m. broadcast is 2 to 3 p.m. New Zealand time).—Cespedes, NRH.

RE the all-night programme to be broadcast by W9XAA, Mr. Fred Easter, Ohio, sends me the following information:—Station W9XAA, Northeast Tower, Navy Pier, Chicago, Illinois, U.S.A., will present an all-night programme on the night of October 4 (October 5, New Zealand time), starting at 10 p.m. and continuing until 6 a.m. eastern time, or 03.00 to 11.00 G.M.T. Do not fail to listen in on this and send in your reports. There will be many valuable prizes given for the most complete reports sent. The feature prize, for the one sending in the most complete report over the longest distance, is a 10-valve broadcast and short-wave super-heterodyne receiver, complete with a power pack. Many other prizes are offered.

A few addresses which may be of interest to s.w. listeners:—English Phones, Radio Section, G.P.O., London, E.C.1.

PHL, N. V. Phillips, Omreop, Holland Indie Kerzersgracht, Amsterdam.

Dutch Phones: Parkstart 29, S'Gravenhage, Holland.

German Stations: Reichspostzelratamt, 11-15 Schöneberger Strasse, Berlin, Tempelhof, Germany.

VRV, McInroy Building, Georgetown, British Guiana.

NRH, Box 40, Heredia, Costa Rica, Central America.

Argentine Phones: Transradio-Internacional, San Martin, 329 Buenos Aires.

VK2ME, 47 York Street, Sydney, Australia.

VPD, Amalgamated Wireless, Suva Fiji Islands.

Javanese Phones: Government Post and Tel., Bandoeng, Java.

KIORCA, Kahuku, Oahu, Hawaii.

KIXR, Radio Corp., of Manila, Philippine Islands.

HRB, Tropical Radio Tel., Tegucigalpa, Honduras, Republic. C.A.

3RO Via dei Condotti II, Rome, Italy.

HKC, Universal Broadcasting Corp., Bogota, Colombia.

G2GN, G2AA, G2/V, International Marine Radio, Connaught House, Aldwych, London, W.C.2.

In writing to stations it is always best to give time in G.M.T. A list of rules to govern mailing reports:—

(1) Write plainly the address as near as you can give it.

(2) State the day, hour, and minute of reception in N.Z. time or G.M.T.

(3) State part of the programme heard (the more the better).

(4) State how it was received, and the volume (be honest in this), noise, modulation, etc.

(5) Ask them to kindly verify.

(6) Enclose an international postage coupon.

(7) Print (not write) your address exactly as it should appear on the reply expected.

(This is important, as all nations do not use the same manner of giving addresses, and English is not universally used.)
The above rules are taken from the International Shortwave Club booklet.

DX Topics

DX on Two Valves.

I READ your answer to "Longwave's" query re distance of reception available on a 2 valve using 45 volts. I have, or rather had, a 2-valve set (for I had added a third valve lately), and I used 45 volts on it. My log on the two valve totals 57. Since adding the third valve I have received 4BC, Brisbane—"Power Valve" (New Plymouth).

A CORRESPONDENT recently reported reception of KBJK Beverly Hills. I would be pleased to have particulars of this station as I have a verification from KMPC, Beverly Hills, dated June 24, 1930. It reads: "MacMillan Petroleum Corporation, KMPC, 9631 Wiltshire Blvd., Beverly Hills, Calif. . . . Our station call letters were changed from KBJK to KMPC on March 15. . . . Glen Rice, manager, Station KMPC."—"Kilocycle" (Bluff).

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopenny for every other word thereafter.

TO SELL—4-valve Shortwave Receiver, with or without valves, built best parts, valve base coils, aluminium case; foreign stations guaranteed. £4/10/- quick sale.—"Receiver," "Radio Record," Wellington.

PLEASANT slenderness without any effort on your part by taking a Youth-o-Form Capsule before meals, 6/6 posted. A. C. Timms, chemist, Pahiatua.

ALL-ELECTRIC 2-Valve Local Station Set, complete with Loudspeaker. Excellent reception and good quality. Set was built by thoroughly qualified expert, and is guaranteed. £12. "Reception," c/o "Radio Record."

SYDNEY girls have glorious figures, secured by taking Youth-o-Form Capsules. Absolutely harmless. 6/6 posted. A. C. Timms, chemist, Pahiatua.

FOUR-VALVE Mullard s.g. battery, complete with Philips Speaker, phones and 40ft. masts. Broadcast and shortwave combined, £16/10/- complete.—"Broadcast," c/o "Radio Record."

8 SCREEN-GRID RADIO CHASSIS, £26, Triple S.G. R.F., Power Detection, 245's Push-pull. Write for details. Royds-Howard Co., Christchurch.

OBESITY! 20lb. reduction secured in six weeks with Youth-o-Form Capsules. Absolutely harmless. 6/6 posted. A. C. Timms, chemist, Pahiatua.

WANTED to Sell, Shortwave Set, complete with batteries. Russia, Holland, America, etc. on loud speaker. Price £10. Reply G. Sinclair, Box 100, Dannevirke.

"WESTINGHOUSE" your Battery Radio, eliminate batteries. Results superior to most A.C. Radios. Guaranteed. Write us. Johns, Ltd., Chancery Street, Auckland.

RHEUMATOID ARTHRITIS can be cured. Thiodine Pilules give wonderful results. 5/- posted from A. S. Lamb, Chemist, Karangahape Road, Auckland.

9D. 4½-volt Torch Batteries, Round Units 8d., 9-volt C, 3/-, No. 6 1/11 posted. Royds-Howard Co., Christchurch.



DOG-LOVERS living in flats are often at a loss to know how to have their animals washed. A friend from London has just written telling me how some flat-dwellers manage over there. There is an institution called the "Dogs' Bath Club," with rooms containing enamel baths for dogs of all sizes. A white-coated attendant works long hose-pipes for shampoos, and there are electric driers which do their work efficiently and rapidly. A comfortable lounge is provided for the dog-owners, who may read magazines or regale themselves with cocktails from the well-stocked bar.

THE following "shock-ing verse" appeared recently in a London daily: At 2 a.m., the electrician came Home in a merry state. "Watt's the matter Joe?" his wife called out, Wire you insulate?"

SIR FELIX POLE, in his speech at the annual luncheon of the Electrical Association for Women, said that when he contemplated the 1½d. post, no matter whether the letter came from Land's End or next door, and when he contemplated the penny newspaper and ninepenny telegram—the same price in each case in any locality—he looked forward to the time when the price of electricity would be the same everywhere.

IS there any woman of the present day who thinks she can do without a vacuum-cleaner? It would be interesting to know. We all know that the suction-sweeper is the only method which extracts the dirt, which we are sure is not there, but which nevertheless mysteriously finds its way into the vacuum-cleaner's dust-bag. Personally, it always gives me great satisfaction when I open the dust-bag and empty its contents and find such a quantity of "invisible dust" to prove the efficiency of my machine. But I do look after my cleaner. Simple as it all is, you must give it attention if you want the best results. It must be oiled at intervals, as it is a machine of moving parts. Empty your dust-bag regularly, and clean off any hairs, strings, threads and "bits" which accumulate on the brush. Coil up your flexible neatly to avoid kinks and tangles; if this is not done it often becomes chafed, and ends in causing a short circuit and a blown fuse. The average child can handle a vacuum-cleaner, and yearly we are having improvements in design and workman-

ship, so that these machines are becoming little short of perfection.

THE connection between skirts and chairs may not be evident at the first glance, but I am assured by the representative of a big American furniture firm that a very real one exists. For example, every time women's skirts alter in length the height of chairs and tables varies likewise—which is all to the profit of the manufacturers. At the present time, the low easy chair has been displaced in favour of the more upright ones.

THE car of the future will be a complete harmony in two colours (says an English writer). Manufacturers, recognising feminine influence in the choice of a car, are catering more and more for the sex. Imagine a sports coupe: the fabric body and the mudguards a pale green, and the tires, radiator, and all metal fittings of the same colour and shade; the wheels, chairs, and the interior upholstery cream, with the mouldings of the body and the bonnet vents picked out in cream, too. Nothing in the car would clash with the scheme. Even the instruments on the dashboard would be in green stainless steel, and have cream dials with green lettering. Equally effective would be a combination of rose and white, or for more formal use black and red or black and white.

dows, with a window seat, and on either side built-in bookcases to the height of the window taking up the whole length of the end of the room. Cupboards may be built in, instead of shelves for the lower part, if the house is small and more cupboard space is desirable.

WHEN building, it is well worth your while to go into the extra cost of using "Vita" glass windows. I heard recently that they were worth their weight in gold. I took this remark too literally. What was meant was that the wonderful effect this glass had on health was miraculous. It is supposed to admit the invisible ultra-violet rays, and as so many of us have to be indoors so much, if this new glass is fitted into our windows and sunporch we will have all the sunburn and vigour, even in the winter months, that the greatest health advocate could desire.

THE town of Buxton in England has an enterprising municipal electricity department. At a recent pageant held in the town there appeared a wonderful summer-house on wheels, propelled by electricity. It was divided into two compartments, a kitchen and a drawing-room, showing various electrical devices for use in

I SPENT an hour the other day trying to rid an oak table of heat marks. I tried different kinds of oil, beeswax and turpentine, and elbow grease, but nothing happened. I rang the furniture-maker where this table had been made to come up to restrain and repolish it for me; but, being honest, he told me to rub a little linseed oil on the mark, and then apply, very lightly, a little spirits of camphor on a rag—then some more oil and camphor, repeating until the mark disappeared. The result was wonderful; there is not the slightest white mark left.

AT a children's party recently there were two novel ideas which were new to me. The first was "windmills" on the cake, which were blown instead of the usual "blowing-out of candles." The other was that at each place a birthday candle was placed. On a very charming Dutch plate was a whole slice of pineapple, and on top of this was placed upright a small banana. Angelica was used for the wick and the candlestick handle, and slightly whipped cream for the candle-grease.

TWO-WAY switches save one's temper. For those who like reading in bed (and who does not?) it is a constant source of irritation to have to get out on cold nights to turn off the light. A switch-cord hanging over the bed, or an extra switch at the bedside, will do away with this. For the stairs two-way switches are a necessity, one at the top and another at the foot, so that the light can be turned on or off by either. Also, though not absolutely essential, a two-way switch is useful for the hall-porch light. When guests arrive the outside light is turned on so that they can see the path, and one in the hall is automatically turned off. Once they are indoors the switch is reversed, and the hall light turned on.

TABLECLOTHS made of soft oil-cloth with a dainty all-over pattern are excellent for picnic use. However soiled they become they can be quickly and easily cleaned by being wiped over with a damp cloth.

AT one time the bathroom used to be the Cinderella in the house. So long as there was hot water nobody bothered about the furnishings, and oddments of chairs and tables were

Thought For the Week.

WHY always rattle a sword and be in the right? A little reasonableness and everything goes better.

—Lioi Feuchtwanger in "The Ugly Duchess."

SUN-BATHING should be vigorously controlled (says a writer in "Better Health"). Initial exposure should be short, a few minutes, and only a portion of the body at a time. The head should be protected. Day by day the length of the exposure and the amount of the body to be exposed can be gradually increased, until by the end of the third week the whole body can be exposed for a considerable period. It should be noted, also, that exposure of the body to the air on sunless, warm days is also most health-giving, as the movement of the air energises the body and even sunless air contains a considerable degree of the ultra-violet rays.

AN effective finish for the end of a room are jutting out casement win-

dows. On the outside were painted such slogans as: "Electricity wins all the tests without the ashes," and "Cook without cooking the cook."

FIVE guests at a recent luncheon party in a London hotel began to discuss a business scheme, and became so enthusiastic that they began to draft the points of an agreement on the tablecloth. One member of the party suggested jokingly that each guest should sign the notes. This was actually done, and the cloth placed for security in the hotel safe. At the weekend it was brought forth, carefully wrapped up and sealed, and dispatched by air to Paris to be produced as evidence at an important business meeting.

relegated to the bathroom as a matter of course. Now, however, times have changed, the rites of the bath are of the utmost importance, and must be performed in congenial surroundings. The ideal is a tiled bathroom, but for those of limited incomes there are the new tiled papers, which can be had in panelled designs. For the floor there is cork carpet or tile-leum, both of which are excellent. Cork carpets must be washed carefully with pure soap, as soda ruins them. They should be dried with a linen cloth and not polished. Useful and decorative accessories for the bathroom are taps of the new stainless steel, a white porcelain stool with cork top, crystal towel rails, and, last but not least, cabinet for holding medicines and toilet necessities, fitted with plate glass shelves inside, and a damp-proof mirror on the door.

IF chiffon is of good quality it can be laundered at home, and still retain its colour and appearance. Use warm water, softened by a little borax, and a pure white soap in flake form to make a good lather. Put in the material, work it up and down, and squeeze gently between the hands, but on no account twist it. Rinse first in warm then in cold water, till all the soap has disappeared. Squeeze out the water by hand or lay the material between the folds of a towel, and pass through a wringer. Leave wrapped in a dry towel till ready for ironing. Iron on the right side, with a fairly hot iron.

IF you cook by electricity an electric kettle will save a great amount of current, as it boils water much more quickly than by turning on the hot plate. For the same reason an electric saucepan is useful for heating up small amounts of food, or for making sauces. When the oven has been in use, and the power then turned off, the reserve heat will still be sufficient to warm a bowl of water for washing the dishes.

THE British Broadcasting Corporation once acquired a parrot to entertain the youngsters during the children's hour, when the Uncles were exhausted. Polly had been specially chosen because of her flow of elegant language, but once at the Savoy Hill studios she became dumb. The only sounds she ever condescended to make were odd grunts—like a dissatisfied listener expressing his opinion. So one day Polly was seen no more.

THE perfect manners of the children in the Victorian Age are often upheld as an example to the present-day youngster. When a child of those days wanted to know something he would say: "If you are not too occupied, Papa, to waste your valuable time upon children, would you be so kind as to explain to me the principle of the interesting gas balloon?" The modern child would faint if this form of address was made compulsory, so probably would the parent.—Yours,

ALISON.

PRIZE POEM COMPETITION

THE prize of half a guinea this week is awarded to U.C. for "Summer Gold," which expresses with grace and felicity rapturous anticipation of beauty of the summer we hope is now not far behind. Selected for commendation is "Sea Glamour" by "Firefly," who succeeds in creating a faery, otherworld atmosphere in the first four stanzas, but is unable to sustain it in the concluding lines, which are somewhat halting.

K.W.H.E.: We like your human verses of the new day bringing to each and all "new chances, one more chance."

Pensee: A youthful contributor, and one possessed of imagination and consciousness of poetic form. The "Edelweiss" legend is sweetly phrased, and we encourage you to continue.

J.T.W.: Of the three poems submitted, we prefer "The End of the Game," which goes with a vim reminiscent of "Banjo" Patterson, but is too long for our purpose. Contributors are limited to 25 lines.

Jean: Sorry to discourage, but yours is a hopeless attempt.

John o' Groats: An ambitious subject tackled with disastrous results. We fear literature is not your metier.

Seascope: Your tale of a tub—a cutter in stormy, sunswept waters—is breezy and facile, but lacks the iridescent quality that is essential.

"Francesca" possesses an eye uncannily observant, and sends conscientious description of walking in the woods, in which the sense of beauty seems strangely absent.

S.M. sings, hey, for the small purple iris in a few lines of refreshing originality.

"Summer Dawn": Some small rhymes which exemplify the lingering influence of "The May Queen," perpetrated by a Victorian Poet Laureate.

Marianne: Shrill vapourings.

Summer Gold

SOON, soon all the slow gold sleepiness of summer
Will be drowsing every hollow in the sunburnt hills,
Tumbling balls of gold from boughs of dancing wattle
Through the dozing heart of noon till every blossom spills.

The faint gold thunder of a cloud of dark gold bees
Into a gold immensity of summer light,
While the slim gold fingers of the wind shake pollen
Over the great-winged butterflies in shining flight.

Ah, soon will the smell of gorse, like sun-warmed apricots,
From dunes as golden as its own bright bloom arise,
And the sun draw a heavy scent from ripening orchards
Hung in a golden haze of heat beneath still skies.

And we one day, soon, soon, will wake to hear the
Whole honeyed heart of summer stirring in the rush
Of song with which one bird, passioned with sunrise,
Pierces the sky's wide golden clarity and hush.

—U.C.

For the Booklover

A CHARMING yet inexpensive present for a book-lover is a pair of embroidered book-ends. Buy two cheap japanned tin book ends. Have two pieces of wood cut the same shape and size as the upright ends. Use small tacks or screws to fasten the wooden and tin ends together. Cut four pieces of silk, one for each side of each end. Embroider two of them and sew one plain and one embroidered piece together, so as to make a slip-on cover for the book-ends. Finish the edges off with gold galon to hide the joints. Some materials could be pasted right on to the wood to save sewing, but this method is not so satisfactory as the stuff is apt to crinkle.

Oiling Habit

DID you ever think of oiling the machinery of your house. Try going round with an oil can filled with motor oil. Hinges, locks, catches, snibs—all will work like a charm afterwards. The most difficult to oil and silence are the squealing wheels over which the sash-cords go. Keep squirting the oil in until they stop, and if a deal runs down the woodwork so much the better. It is a treat to be able to throw a window up with two fingers afterwards. For sticky drawers vaseline is used. Remove the drawer and rub carefully in the whole of the sides and runners, wiping the surplus off with a cloth.—G.G.S.

Travel De Luxe

IT is a far cry from the discomfort and privations of crossing the seas in a sailing ship to the super-luxury of such vessels as the new Cunarder. No longer is the cargo the first consideration of the owners and passengers looked on as superfluous nuisances. On the contrary, we find the organisers of the Imperial Institute Exhibition of Industrial Designs offering a prize for the best design for fitting and furnishing a saloon cabin. Bookshelves, wardrobes, with long mirrors and sliding trays, shaded lights, for reading, comfortable chairs and desks for writing, and a charming colour scheme pervading the whole. These are only a few of the items included in the competing designs. Every cabin is fitted with an electric radiator, and anyone who has experienced the comfort of such an appliance during cold weather at sea will agree that it is indispensable.

Trade Notes

Sunshine Vacuum Cleaner

THIS is a full-sized, hand-some-looking cleaner, with many new detail advantages. Although the Sunshine has a full equipment of accessories, the whole complement retails at a price much below the amount the average home-cleaner would be prepared to pay for so well-made an apparatus. We continue with details of the cleaner.

Nozzle: Measuring 13 inches, of cast aluminium, highly polished, and attaching by two strong lugs. There are no dead spots and threads are picked up at either side, where there is an aperture through which the air flows at greatest speed.

Brush: Stationary, but easily detachable, strong and useful. Adjustment is made at the rear of the cleaner, where a screw adjusts the rear wheels and determines the distance between the carpet and the nozzle.

Chassis: Two rubber tired wheels and a third adjustable wheel at the rear, are separately attached to the casing, and operate noiselessly. With rubber tires there is neither scratching nor blur to the surface of highly-polished floors.

Motor: Westinghouse, built for vacuum cleaners, operating 230 voltage, or at ordinary 120 voltage. The rear armature bearing is lower than the front bearing, to equalise the bearing wear and danger of overheating is guarded against by a cooling fan. Lubrication is obtained by two self-feeding grease cups which if filled may be left safely for one year. The motor is housed in a highly-polished aluminium casing, which adds to the appearance and protects the motor from external damage.

Fan: Die cast aluminium, large and mounted directly to the armature shaft of the motor, and revolves at motor's speed. The fan is balanced and drives the dirt-laden air into a large octagonal space through to the dust bag. It was found under test that shavings and large splinters of wood were sucked up and delivered into the bag, although it was thought this material would be too large for the suction to deal with.

Handle: Light-weight tubular steel, nickel-plated, carrying the trigger switch, dust-bag clip, 20ft. of electric cable, and ending with a black polished wood handle.

Dust-bag: Cotton twill fabric—quite up to the job expected of it. Attachments: Usual to first quality cleaners, and fastened by simple lug and cam lever operated locking arm. The controlling agents are Harold Lightband Ltd., of Christchurch.

WHILE listening-in to 2BL recently, I heard a short, almost casual, message which abounded in human interest. The station was relaying a community sing from one of the city halls and all were in the best of spirits. An entertainer had just presented a more than usually humorous sketch and amid applause the station switched back to the studio. "2BL, Sydney. Back at the studios. We have an important announcement. Volunteers are urgently wanted to undergo a blood transfusion in a serious case at Lewisham Hospital. Would those willing to undertake the transfusion present themselves without loss of time at the main entrance of the Lewisham Hospital." That was all; the next moment we were back at the community singing where the applause for the comedian was still being sustained. Radio had torn two pages from the book of life and had let us see them side by side. I did not hear the result of the appeal, though I imagine there was more than one person at the hospital a few minutes after the broadcast.—Gwendolyn.

AN extraordinary mania has recently afflicted America in the newspaper "silly season." Down in Florida a race developed between tree-sitters to establish world records. Boys of tender years, 10 to 14, set themselves to see which could sit longest in a tree. At first the newspapers gave publicity



to these efforts, but fortunately the better sense of the community began to assert itself, and a gathering of Press people in the State of Florida decided that they would ignore such stupid record-breaking efforts until such time as one or the other of the tree-sitters "fall and break their necks," which fact would then qualify them for appearance in the news.—Sense.

AMERICAN women seem to be very restive of criticism. When the editor of a small paper in El Paso declared that no woman could go ten hours without talking, and bet 10 dollars that no four women could play bridge for two hours without conversation, there was almost an immediate riot in the township. No fewer than 113 irate women at once wrote cancelling their subscriptions. The editor tried to atone for his tactless remark by stating in his next day's paper that "Women don't talk any more than men. It just seems like they do."

This, however, made matters worse. Finally the editor, to save his circulation, was obliged to call personally upon the subscribers who had cancelled subscriptions and make his apologies, but three irate females withstood his honeyed words and one yielded only when he carried a three-pound box of candy to back up his personal apologies. Two still held out, and to them he sent a dozen roses each, while he declared his future policy to be "I

first-rate man, by postponing marriage as long as possible, often approaches it in the end with his facilities crippled by senility, and is thus open to the advances of women whose attractions are wholly meretricious. If he marries at all he must commonly marry badly, for women of genuine merit are no longer interested in him." Mencken is now 49 years of age, and is to be married to Miss Sarah Powell Haardt, a prominent magazine writer. She'll probably have a few heart-to-heart words on that statement before she's through!—Amy.

ACCORDING to a prominent French feminist, the powder box is more important than the ballot box. France is one of the few countries in these days where women have no vote. Mademoiselle Bohin, on returning from a feminist congress at Prague, advises her fellow country women to leave well alone and not to trouble too much about the vote. Her view is that feminism is a question of tact rather than one of politics, and she holds that, although Frenchwomen cannot vote, they have more power and freedom than the women of most other countries. They can enter almost every profession—in fact, can be anything but be judges—and wield in every sphere a power which is all the greater because it is silent and unobtrusive. The Frenchwoman, she says, ought to be very pleased with her present situation and ought to realise that her tact, her taste and her refinement enable her to lead the Frenchman by the nose. She has remained feminine, and the very weaknesses of her sex strengthen her power over men. This is a new point of view regarding Frenchwomen, of whom the general view is that they play an unimportant part in French life.—X.

CANADA is in the peculiar position of both its political leaders on opposite sides being bachelors. The new Prime Minister, Mr. R. B. Bennett, 60 years of age, is a bachelor, and so is his Liberal rival, Mr. Mackenzie King. Both are distinguished lawyers. Our own Prime Minister, Mr. George Forbes, lately in Canada, is faced with the difficult problem of negotiating a tariff agreement with Mr. Bennett. Mr. Bennett has a reputation as a capable orator, with marked loyalty to Empire policies and developments. He however, places the interests of Canada first, naturally enough, and is wedded to a strong Canadian protectionist policy.—Molly O.

Birds of Paradise

THE clouds to-night
Were like great golden
pinions
Of some rare flight
Of birds that hovered high;
As if the winged ones from
Paradise
Had drifted
Within our sight
From the celestial sky.

—C.S.

am going to confine my activities to lost dogs, children, and other things that the women won't hop me about." Such an incident seems unthinkable in an English community. In the first place, English newspapers don't attach so much importance to personal columns as in the States, and in the second place, can anyone picture concerted indignation of this type from English women?—Constance.

ACCLAIMED as the world's most slavish and voluble bachelor, H. L. Mencken, well known in America as the editor of the "American Mercury," has at last fallen into matrimony. He has achieved fame throughout several decades by his violet diatribes against the "illy-livered" tribe of married men, combined with lofty views on celibacy and supercilious patronage of matrimony. Mencken sponsored the statement that "first-rate men, when they marry at all, tend to marry noticeably inferior wives. The

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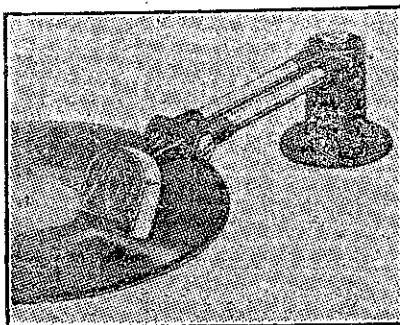
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Remarks on Sauce

SAUCE generally adds a spicy flavour to the dish, and the following are usual:—

Roast Beef: Thick or thin brown gravy, horse radish sauce.

Roast Mutton: Thick brown gravy, onion sauce, or red-currant jelly.

Roast Pork: Thick brown gravy, apple sauce.

Roast Lamb: Thick brown gravy, mint sauce.

Boiled Beef: White sauce or liquor slightly thickened.

Boiled Mutton: White, parsley, caper or onion sauce.

Celery Sauce

Method: Boil some celery till tender in salted water, drain and put it through a sieve, add 1oz. of melted butter, and thin the celery. Flavour with a blade of mace, pepper and salt. Simmer for a few minutes. Serve with boiled poultry.

Oyster Sauce

Method: Strain the oyster liquor and put the oysters in it. Let this come to boiling point. Strain off the liquor and put the oysters in a basin. Make a sauce of melted butter with some of the oyster liquor and milk. When ready add the oysters and just let them warm through. If they are boiled they become hard and tough.

To serve with fish or boiled poultry.

Horse Radish Sauce

Method: Mix 2 teaspoons of made mustard with 1/2 teaspoon of pepper, 1/2 salt, 1 teaspoon of sugar, 2 tablespoons of vinegar and 3 tablespoons of cream. To this add enough grated horse radish to make all of the consistency of cream. Heat (but do not boil.)

COUNSEL for the COOK

Apple Sauce

Method: Peel and core about 4 apples, and stew until reduced to a pulp. Add just sufficient water to moisten them and 1 tablespoon of sugar. A small piece of butter may be added. Beat all well together.

Cheese and Raisin Sandwiches

Ingredients: 1 teacup of seeded or seedless raisins, 1 cup of cream cheese. Seasoning, brown bread and butter. small cress.

Method: Chop the raisins finely and mix them with the cream cheese, seasoning with pepper, salt, and a few drops of vinegar or lemon juice. Spread a good layer of the mixture between slices of brown bread and butter. Cut in pieces and garnish with small cress.

Queen Buns

Ingredients: Cup flour, 1/2 cup sugar, 1/2lb. butter, 2 or 3 eggs, 1 tablespoon of milk, 1 1/2 teaspoons of baking powder, pinch of salt, and essence of lemon.

Method: Cream the butter and sugar, drop in eggs, one by one, and beat until white and very creamy. Sift in flour and baking powder, and add essence of lemon. Put into well buttered patty tins, sprinkle a few currants on the top of each, and bake in a hot oven from 8 to 10 minutes.

Digestive Biscuits

Ingredients: 1/2lb. wheat-meal, 1/2lb. flour, 1oz. butter, 1oz. sugar, a little salt, milk or water.

Method: Mix well the dry ingredients. Make into a firm paste with

the milk or water, and knead till smooth. Roll out very thin. Cut into rounds, and bake in a slow oven.

Cheese Straws

Ingredients: 2oz. flour, 2oz. grated cheese, 1oz. butter, a pinch of salt, cayenne, yolk of 1 egg, a few drops of lemon juice.

Method: Rub butter into the flour, add other ingredients, and mix. Roll out thin, an cut into strips about 4 inches long and a 1/4-inch wide. Bake a few minutes until a light brown, in a moderate oven.

Children's Birthday Cake

Ingredients: 1 1/2lb. flour, 1lb. sugar, 4oz. cherries (glace), 4oz. raisins, 4oz. mixed peel, 4oz. sultanas, 1lb. butter, eight eggs, two small teaspoons baking powder. Flavour with rose water.

Method: Beat butter and sugar to a cream, add eggs previously well beaten, the fruit, and lastly flour and baking powder. Mix thoroughly and turn into a cake tin lined with greased paper. Bake about three hours. Ice with almond and royal icing.

Savouries

IT is a well known fact that savouries are invariably appreciated by men, and nowadays the great majority of women prefer them to sweets. It will be found that the making of savouries is not a very expensive item, when it is realised that the smallest scrap of meat, fish or vegetable can be used, with the addition of flavoured sauce and seasoning.

Cooking Hints

TO prevent custards curdling, stand the dish in a pan of hot water and cook in a very moderate oven.

Use one tablespoon of rice, sago, etc., to a breakfastcup of milk, and about one tablespoon of sugar and one teaspoon of butter. Bake very slowly to swell the grains well.

Cakes made with baking powder require a higher temperature than do cakes made with cream of tartar and soda, lemon juice and soda, or syrup and soda.

Sponge cakes without any rising require a still lower temperature. Cakes containing fruit should be baked in a moderate oven after the first half-hour.

Fruit cakes are best left in the tin for a few minutes before turning out. Sponge sandwiches should be turned out at once on to white paper. The paper may be first dusted with icing sugar.

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Scones, tea cakes, etc., should be turned out on to a cloth. They may be folded in the cloth to keep them soft. A pinch of salt added to the flour improves the flavour in most cakes.

In cold weather the butter may be warmed (but no oil) to make it cream more easily. Brown sugar should be used for dark cakes and gingerbread. It may not have been noticed by the majority that the electric range is much cleaner to use, and does not spread the odour of cooking throughout the home, because there is little, if any, draught of air passing into and out of the oven, while the foods are cooking. The oven heat is evenly distributed at the top and bottom, consequently the food cooks without danger of burning at the bottom or sides, as with other ovens.

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Labour Day, 1930

RAILWAY FARES CUT FOR HOLIDAY TRIPS.

From October 24 to 27 inclusive, Railway fares will be reduced by approximately 6/- in the £. Tickets are available for return until November 22.

Father and mother and ALL their children under 16 years of age, travelling second class, require only three whole tickets for their journey.

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A DETROIT radio announcer was recently shot by gangsters because of his activities in connection with the deposition of the city's mayor from his office.

THE gross revenue from wireless licenses in England for the year ended April 30 last was £1,550,000, compared with £1,370,000 for the previous year, and £500,000 for 1924.

BIRD life in the Hartz Mountains is faced with a new terror (states an exchange). Instead of the legendary scarecrow, the owner of a large orchard there has fixed a powerful loudspeaker in a cherry tree and keeps it constantly switched on. No bird has been seen in the orchard since.

THE Supreme Court of Germany has decided that information broadcast must not be repeated by the Press. The Broadcasting Company proceeded against a radio journal for reproducing the complete broadcast account of the voyage of a Zeppelin to New Jersey, and the court upheld the claim.

A TOTAL of 600 American broadcast stations employ 1000 operators; 350 Morse stations, 700; the 100 trans-oceanic stations, 500; the 77 naval stations 300; and the 180 experimental, 200. In all, seagoing vessels employ 2500 operators.

WHILE paying an informal visit to Senator Marconi's yacht, the Ellettra, recently, Signor Mussolini conducted an impromptu conversation with London by means of the wireless telephone installed on board. He spoke for some minutes to one of the engineers at Radio House, the headquarters of the B.B.C.'s technical staff, and commented upon the clearness of the transmission.

A MANUFACTURER of American cigarettes complained that large numbers of his products were disappearing, but all efforts to discover the thief were unavailing. Someone lighted upon a happy idea. Three microphones were installed and connected to lamps on the roof of the building. During the nights passing detectives noticed that these were alight, and entering the building made the arrest. It was none other than the nightwatchman.

BETWEEN September 2 and 26 an international Radio Congress is was held at Liege, Belgium. This

period corresponds with the hundredth anniversary of the independence of Belgium. There are many questions to be considered—the legal status of radio, schemes for international conventions, civil protection for radio, copyright problems, the rights of artists and executives, division of the ether, international status of radio operators, and other questions. It is a concerted effort to have radio legally recognised and have it placed on a definite basis.

ON her first trip equipped with radio telephone, the Majestic was called up forty times from the coast, and business men were enabled to keep in telephonic communications with their firms. The same vessel has been equipped with submerged microphones to give warning of icebergs in the vicinity. Another innovation to ensure safety at sea is the agreement, recently arrived at, that ships regularly exchange notes on the meteorological conditions. What with radio and its allied sciences it seems that another disaster like the "Titanic" is impossible.

THE first attempt to broadcast a play by the Baird system of television has aroused considerable interest, and not a little criticism in the English daily Press. It seems generally agreed that the recent representation of "The Man with a Flower in His Mouth" was most interesting from a scientific point of view, but that the dramatic limitations are at present very restricted as only a portion of each actor can be shown on the screen at one time. In addition, short interludes are necessary to enable each performer to take his place before the projector when his turn comes. The dramatic critic of the London "Times" concludes his criticism thus: "The visual transmission is far from perfect. You feel yourself to be peering through a keyhole at some swaying, dazzling exhibition of the first film ever made."

Wavelets.

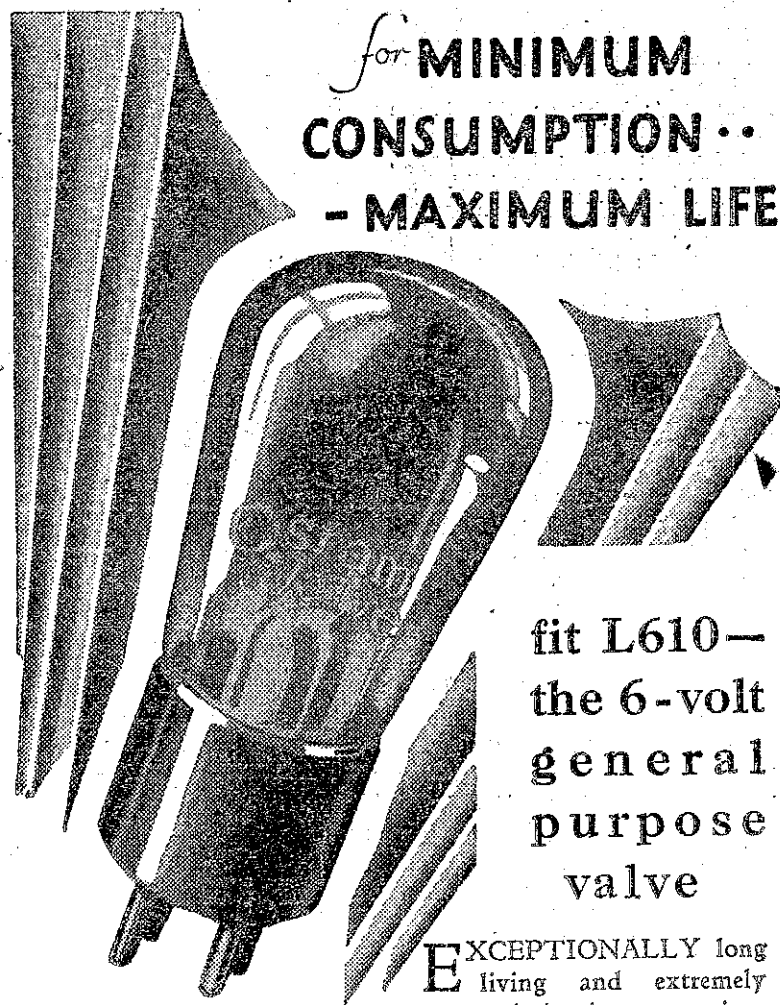
AN international convention of short-wave transmitters was held in Antwerp, Belgium, from July 12 to 14.

French engineers have recently completed the construction of two radio stations (short wave) in Persia.

The Afghanistan Government has ordered from the French Government three short-wave transmitters.

It is officially stated that the new religion, Radiosophy, is claiming an increasingly large number of followers.

A station with an aerial power of 120 kilowatts is under construction at Varsovie. Here is a rare chance of a scalp for the DX-ers.



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