

PUBLISHED WEEKLY

THE RADIO RECORD

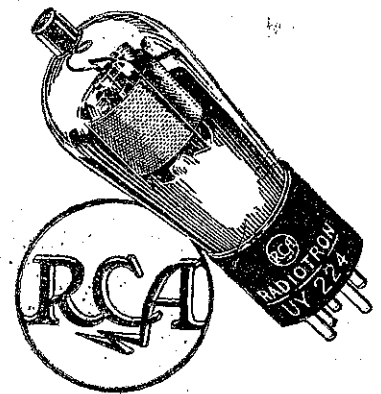
AND
ELECTRIC HOME JOURNAL

Vol. IV., No. 27.

WELLINGTON, FRIDAY, JANUARY 16, 1931.

Price

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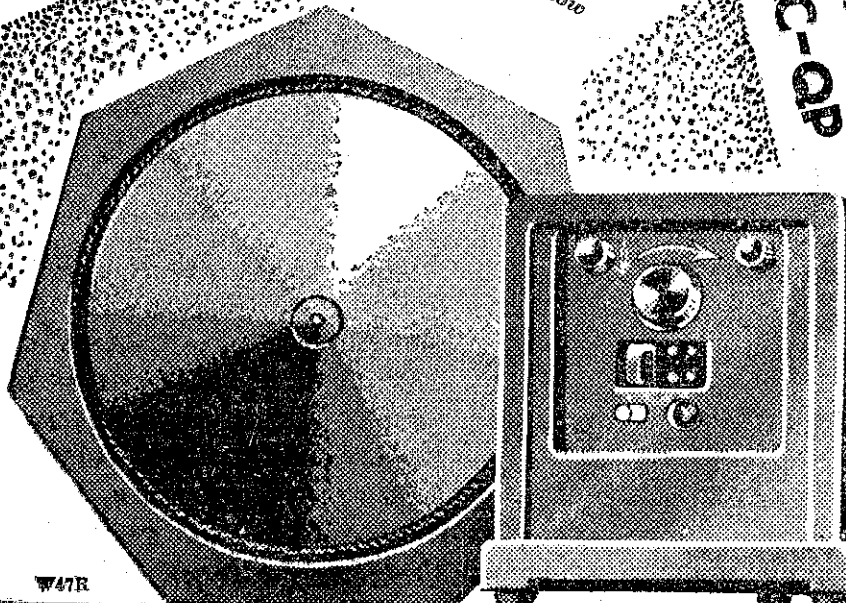
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Advertisement of Philips Lamps (N.Z.) Ltd., (Radio Division), Hope Gibbons Building, Courtenay Place, Wellington.
Auckland Office: Paykel's Building, Anzac Avenue, Auckland



ONE hundred and seventy-two years have come and gone since the young wife of a working gardener gave birth to her first child in an "auld clay biggin" near the town of Ayr. Nature afforded a cold and tempestuous welcome to the infant boy, and his life's journey of thirty-seven years was beset with troubles. His wanderings hardly extended beyond the confines of his native land: He strove with unfruitful soil and searched old wives' barrels, and left behind him only a little more of material possession than he brought. Now, the glory of his name is spread as wide as the world, and no son of Scotland has homage in comparison. As Sir James Barrie once said, "They have all to take the kerb for the exciseman."

On every anniversary of Robert Burns's birth countless thousands of his lovers keep a tryst with him, not only in the Old Country, but in the great Scotland beyond the seas. He is admitted by the highest authorities to have been the first poetic genius of the eighteenth century, but his countrymen do not base their devotion on literary attainments alone. It is the place he has in their hearts by which they judge him.

As a growing boy he had a man's task, and the ploughman's stoop was fashioned which went with him all his life. He says himself that there was the "cheerless gloom of the hermit with the unceasing moil of a galley slave," but though his youth was hard and anxious it was a necessary prelude to his message.

THE shadow of poverty hung ever over his father's door, but he was brought up in surroundings of almost unrivalled natural charm, and his young heart was early stirred by the magic beauty of the world. He did not get more than three years' schooling, snatched at random from the time he could be spared from the labours of the field, but the impression which still persists that he was an unlettered peasant is entirely erroneous. He was extraordinarily well-informed, thanks to his father's efforts and his own intense desire for knowledge. He only lacked opportunity to acquire an advanced culture. In such a process he might have been robbed of the gay spontaneity which is his chief charm. We cannot, somehow or other, imagine him walking on academic stilts along the highway of life.

*Gie me ae spark o' nature's fire,
That's a' the learning I desire,
Then though I drudge through dub and mire,
At plough or cart,
My muse though hamely in attire
May touch the heart.*

A succession of unsuccessful farming ventures—a brief period in which he was feted

and lionised at Edinburgh, which was then one of the leading social and literary centres in Europe—three and a half years in Nithsdale, where he tried without avail to combine the dual role of farmer and exciseman—and four and a half years in Dumfries, where he wrote songs of incomparable beauty and served the Excise Board for £70 a year, is the story of his life.

It has been the fashion to look upon it as a tragedy. Biographers and essayists have almost without exception mourned over him, but it is not improbable that the only tragedy was the supreme final one when death claimed him so early in his days. It is fortunate for us that he is his own best biographer. Bookish and unworldly men have failed to grasp the essential fact that he was a perfectly normal person with all the eccentricities of conduct and flaws of temperament which distinguish our kind.

It was not altogether easy for a literary artist of the first order, who knew always how to think but not always how to live, to accommodate himself to the discreet atmosphere of a country town in a time of extreme political dissension. It is indeed a matter for wonder that in his lifetime he created so great a stir as he did, and Nathaniel Hawthorne is right in saying that "It is far easier to know and honour a poet when his fame has taken shape in the spotlessness of marble than when the actual man comes staggering before you besmeared with the stains of his daily life."

It is by the glorious heritage which he has left us that we must judge Burns. He succeeded to a splendid inheritance. From the earliest unknown singers, right through the long line of Barbour and Blind Harry, King James the First—Dunbar—Douglas—Ramsay—and Ferguson, there had come to him an unbroken tradition of natural spiritual expression. He was fortunate in that he became its possessor so early in life. The collection of Scottish songs was, he says, "My vade mecum. I pored over them walking to labour line by line and verse by verse"; and he gathered round him the memories and traditions of his native land "till they became a mantle and a crown."

When he came, literary taste was artificial and effeminate, and poor, storm-racked Scotland was in peril of losing the individuality of her natural utterance.

With a wave of the magician's hand he changed it all. What had seemed vulgar and commonplace before, because it belonged to the everyday life of the thought and speech and action, became transfigured and appeared in the true beauty of its natural proportion by the touch of his genius.

He is the most natural of poets, as he was the most natural of men. He speaks in the language of everyday life. No training in the schools is (Concluded on page 32.)

A Programme in Celebration of



ROBERT BURNS

(Born January 25, 1759).

All stations will broadcast special Burns programmes on the evening of Saturday, January 24. Highlanders in the four centres will provide concerts, and the programmes, to use the expression of Burns, "will drive on wi' songs and clatter."

AT AUCKLAND

Auckland District Highland Pipe Band.

FROM WELLINGTON

Caledonian Society's concert will be relayed.

FROM CHRISTCHURCH

Caledonian Pipe Band.

AT DUNEDIN

Dunedin Burns Club, and assisting artists.

Politics Affect Australian Radio Service

License Fees Go To Treasury

WHEN the Federal Government took control of broadcasting in Australia two years ago assurances were given that all the money paid by listeners for license fees would be devoted to the improvement of transmission and programmes, states the "Sydney Morning Herald." An arbitrary division was made, and of the 24/- license fee 12/- was allotted to the contracting company for the supply of programmes, including management, office rents, and other expenses. Of the balance the Post Office Department was to pay the royalty fees to Amalgamated Wireless, Limited, for patent rights, provide transmission stations, land lines and other facilities, including experimental work for the improvement of broadcasting in Australia.

The Postmaster-General, Mr. J. A. Lyons, in the House of Representatives recently, stated that from July 17, 1929, to October 31, 1930, there were issued 422,102 listeners' licenses. These figures excluded Tasmania, where the contracting company, the Australian Broadcasting Company, Limited, did not assume control until December 14. After the Post Office Department had paid all charges against its proportion of the 24/- license fee, there was a balance of £70,000. This money had been paid into the Federal Treasury.

LISTENERS are perturbed at this action. The assumption is that the money has gone into the Federal revenue accounts, and so is lost definitely to broadcasting. Different organisations are giving serious consideration to the matter, so as to preclude the possibility of listeners being taxed for the raising of revenue for purposes other than the provision of programmes and the development of broadcasting in Australia.

Under the terms of the contract made between the Post Office Department and the Australian Broadcasting Company Limited, 16 relay stations were to be erected during the currency of the contract, which expires in 18 months' time. The only relay station yet erected is that of 2NC, Newcastle, and the date of its opening is still indefinite, in spite of the fact that the engineers of the Post Office Department, who undertook the erection of the station, have had several consultations with the expert whom the contractors sent from London to assist the official experts. [This station was finally opened in the middle of December.—Ed. "Radio Record."] The Postmaster-General now announces that it is expected three more relay stations will be completed within the next nine months. No information is available as to when, or where, the remaining 12 relay stations promised are to be erected. Hence, the whole position regarding the future of broadcasting in Australia is uncertain and unsatisfactory. Protests are to be made to the Federal Government upon this matter by representatives of listeners and of the radio trades.

KNOW the time all over the world with a
DX Clock.

9d. Each.
Box 1032, Wellington.

Burns Concerts from all Stations

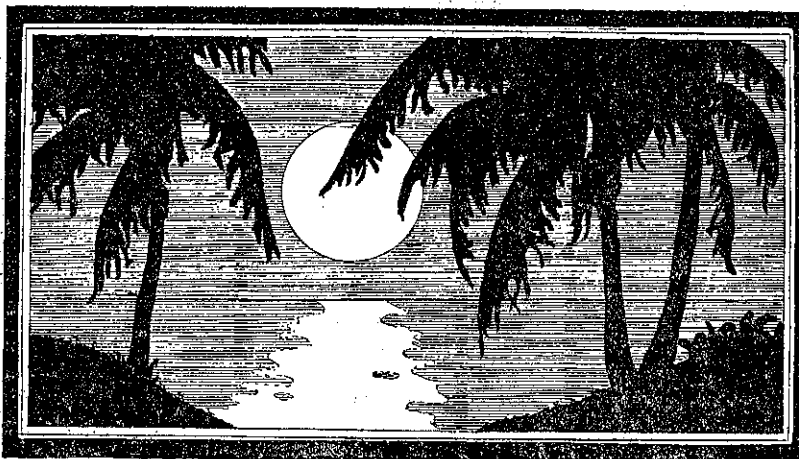
Studio and Relayed Programmes

SCOTTISH concerts to mark the 172nd anniversary of the birth of Robert Burns will be broadcast by all YA stations on Saturday evening, January 24. 1YA and 3YA have each arranged studio programmes, while 2YA and 4YA will broadcast on relay concerts which have been organised by the local Caledonian Societies.

Highland pipers will contribute to all programmes and Scots distributed throughout New Zealand, from the North Cape to the Bluff, will revel in the music of peace and war for ever associated with tartan kilts. The bagpipes will bring back to listeners many sad and proud memories.

The programmes will be typically Scottish, but they will appeal to all. The writings of the famous ploughman poet, while immortal to all Scotsmen, play no small part in the life of the British people in general. As Sir James Barrie once said: "We have all to take the kerf for the exciseman." Poems composed by Burns are held dear by all and in songs such as "Auld Lang Syne" the English and the Irish join as lustily as the Scots, laugh as heartily over "The Deil's Awa," are thrilled by "Scots Wha Hae," and are touched by the pathos of his tender love poems. Who does not appreciate the sentiment in "John Anderson My Jo, John," the "Address to the Deil," the story of "Twa Dogs," the address to a field mouse turned out of its home by the plough, or "Tam o' Shanter"?

*While winds frae aff Ben Lomond blaw, I sit me doon tae pass the time,
An' bar the doors wi' drivin' snaw, An' spin a verse or twa o' rhyme,
An' hing us ower the ingle, In hamely wastlin' jingle.*



“UP STREAM”

A British Drama

Produced from 4YA

Friday Jan. 23

by

Major F. H. Lampen.

The Players:

Major F. H. Lampen, Mr. J. B. McConnell, Mr. E. W. Robbins, Mr. O. L. Garden, Mr. D. Wrathall, Mr. William Ruffell, Miss Isa Duff.

The Scenes:

Act I.—Scene: Interior of the general store at San Antonio.

Act II.—Scene: In the forest, towards midnight: Act III.—

Scene: Gillespie's general store, as in Act I.

Murder Trial Broadcast

American Sensationalism

WOULD the broadcasting of an actual murder trial prove an acceptable entertainment to a New Zealand radio audience? Such a thing is contemplated in some quarters in America under the plea that it is advisable at all times to give matters of public interest the widest possible airing.

Whatever may be said for and against the suggestion, quite apart from the fact of whether it would be permitted in New Zealand, it is well known to radio listeners in this Dominion that the Broadcasting Company has from the outset set its face against the dissemination of anything that can be harmful to anyone who may hear it. A broadcast audience is of a very heterogeneous nature, and the susceptibilities of all types of people, old and young, of both sexes, have to be taken into consideration. Radio broadcasting has vast potentialities to work for the weal or the woe of humanity, and the R.B.C. has an unwritten motto that its aim is the welfare of all listeners.

Apocryphal, this, and notwithstanding the rumoured extension of broadcasting activities to include the sordidness of a murder trial (though such trials in America have not the significance that they have in the British Empire), it is interesting to learn that the Broadcasting Company's latest advice from U.S.A. indicates a mellowing of the broadcast programmes there, bringing into them more of the spirit which inspires the service in New Zealand. There is lately a marked decrease in the sensational drama features which have up to now characterised the programmes in the States. The explanation lies, not in a desire to raise the standard of the programmes for the sake of listeners, but in the desire of the firms who sponsor programmes to get better value for their money. The pendulum will probably swing back again, for where advertising provides the "sinews of war" to a broadcasting station, the advertiser calls the tune.

In America, the Ever-ready Hour, which was the first to popularise, in 1926 and 1927, dramatic presentations with musical background, has been the first to drop them. Now, feature after feature in continuity programmes has dropped radio drama in favour of innocuous entertainment.

It is not implied that the continuity programme has been thrown overboard, lock, stock and barrel, but merely that its position in the forefront has been relinquished. Nothing of outstanding character has taken its place. If anything, advertising is becoming more and more objectionable. There is no longer any attempt at so-called indirect advertising. The good-will which once could be earned by a well-conducted radio feature is no longer considered worth going after. In its embryo days the American method of supporting broadcasting showed great promise. Advertisers outdid each other in seeking to make the grandest gesture to the American audience.

Advertising was confined to mention of the sponsor of the programme and what his product was. But cupidity got the better part of judgment and the results are making themselves felt.



Mr. J. F. Montague.

On Monday, January 20 Mr J. F. Montague and party will present the drama, "Treasure Island" adapted from Stevenson's great adventure story of the same name. The book, which appeared in 1883, is one of the best of its kind written since the days of "Robinson Crusoe" and "Captain Singleton." Founded partly on fact and partly on Kingsley's "At Last," the story has thrilled, especially young readers, for two generations. Accompanying is a brief outline to refresh the memories of those who have let many years lapse since they read the tale.

A MYSTERIOUS brown old seaman took up his lodgings at the Admiral Benbow, an old inn that faced the wave-beaten English coast. He was afraid of strangers, and when an old shipmate who called himself "Black Dog" arrived he was literally terrified. A brawl ensued, and at the point of the cutlass the unwelcome visitor was driven away. Being a very heavy rum-drinker, the old seaman was unable to stand the exertion, and a fit seized him.

"'Black Dog' is a bad 'un," he told Jim Hawkins, the son of the dying owner of the inn, when he lay in his room recovering; "but there are worse than him. It's my old sea chest they're after." And they were a bad lot. In another terrible meeting the old salt was threatened with his life and given the "Black Spot," a kind of summons, to deliver the chest. The anxiety was too much and another fit killed him. To his landlady he owed his board and, though timorous, Jim and his mother turned out the bulky chest intent on removing no more than the money owing them. Jim, who had not received the kindest of handling from the seafaring men, picked up an oilskin packet "to square the count."

No sooner were they out of the house than it was ransacked by the villainous crew who had caused the death of the old salt. They were disturbed and routed by the coastguards.

The packet contained a map of an island on which was buried the famous treasure or the equally famous Captain Flint. The

Yo-ho-ho and a Bottle of Rum

"Treasure Island" from 2YA

squire and the doctor resolved to commission a ship, with Jim as cabin boy, and recover the buried booty.

Among the crew was John Silver, the cook. Although possessing only one leg he could move about with the agility of a bird; he was deep, ready and clever, and he had the confidence of all but the captain. He was cook, but nevertheless appeared to be a leader among the crew, and had to be rebuked for taking too much interest in the matters that should have concerned the mate and the captain.

THE squire believed in treating the crew well. They had liberal grog served and a barrel of apples provided for all to dip into at will. The captain openly objected. "Never any good come of it yet. Spoils fof'sle hands; make bad sailors. That's my belief." But good came of the apple barrel in a way that the squire did not imagine.

To get the last apple Jim Hawkins crawled into the keg and went to sleep. He was awakened by the bulk of Silver letting himself down hard by.

"Not I," Silver was heard to say to his companions. "Flint was captain and I was quartermaster. Flint was 'feared of me, and proud of it."

Within earshot Hawkins heard one of the younger members of the crew throw in his lot with the now obviously buccaneers. Jim escaped from the barrel through the appearance of land attracting the crew to the side of the ship. It was Treasure Island.

"I am an ass and wait your orders," was all the squire could say to the captain when Jim unfolded the plot.

"We must sooner or later come to blows," returned the captain, "and we must take the wind out of their sails by surprising them." There were seven of them against nineteen. In the first boat that went ashore Jim was curled, and evading Silver ran into the undergrowth. Coming later upon the pirates

he heard the dying screams of a murdered man and saw another die by the wooden leg and knife of John Silver. Fearing a similar fate, he crawled away, and wandering among the bushes encountered what he thought to be a wild animal. It darted about and slipping ahead cut off his retreat. It was a marooned man—Ben Gunn, a former member of Flint's crew, and although he would not return to the ship—he was afraid of the terrible Silver—promised to help for a passage to England and a portion of the treasure. A cannon shot disturbed them; the fight had begun.

In the meantime the doctor and party had also left the boat and decided to shift headquarters to the old (Concluded on page 29.)



... The uncouth missile hurled point first through the air and hit poor Tom, with stunning violence, right between the shoulders.

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, JANUARY 16, 1931.

RADIO AND POLITICS.

THE situation developing in Australia in connection with the radio service is of outstanding interest to New Zealand listeners concerned with the future of our own national broadcasting system. Some two years ago the Australian Federal Government took charge of the broadcasting service by becoming owners of the broadcasting stations, and letting by tender the provision of programmes to the Australian Broadcasting Company, an organisation specially formed for that purpose. It was announced by the then Prime Minister, Mr. S. M. Bruce, that the Government, in addition to becoming the owners of the "A" class stations, purposed erecting some 16 subsidiary relay stations in various parts of the continent, in order to effectively cover the population with a full national service. It was arranged that of the listener's 24/- licensee fee 12/- should go to the Australian Broadcasting Company and 12/- would be retained by the Government to cover the cost of maintaining the transmitting stations and providing for the erection of the supplementary stations mentioned.

THE scheme thus promulgated was duly inaugurated. The Australian Broadcasting Company was formed, and has been receiving 12/- of the listener's license money for the provision of programmes, management, etc. Incidentally it is interesting to note that the old company, prior to the inception of Government control, received 20/- of the listener's fee, of which approximately 3/- was absorbed, it is estimated, for maintenance, and 2/- for copyright fees, leaving approximately 15/- available for the costs of management and the provision of programmes. Under the new arrangement the Australian Broadcasting Company has received from the Government 12/-, of which 2/- has been absorbed by copyright fees, leaving the

sum of 10/- available for programmes; so that in actual fact the present company has had less money pro rata to spend on programmes than the old-time concern.

FROM these figures, also, it will be noted that, whereas the old company maintained its stations upon an estimated sum of 3/- per licensee, the Federal Government appropriated 12/- of the listener's fee for transmission equipment and maintenance. Certainly from this sum the Post Office Department paid royalty fees to Amalgamated Wireless for patent rights, as well as maintaining the stations. The intention also was that this sum should provide for the erection of some sixteen secondary stations, but according to a statement made by the Postmaster-General, Mr. J. A. Lyons, in the Federal House recently, when reviewing the situation, the department had not embarked upon the provision of the sixteen stations mentioned in the original undertaking, but so far, in the space of approximately two years, had completed only one, with hopes of building three more in the course of the next nine months, leaving unspecified the fate of the remaining twelve, although the term originally specified for their completion has but eighteen months to run. It was also announced by Mr. Lyons that the sum of £70,000 had remained in the Government's hand, after meeting all current obligations, and that this sum had been paid into the Federal Treasury.

LISTENERS in Australia are naturally very concerned at the situation thus revealed. The plain fact is that, following on the change of Government from the Bruce administration to Labour, the policy in respect of broadcasting inaugurated by Mr. Bruce has been, if not departed from, at least prosecuted very apathetically. Listeners do not regard with equanimity the statement that £70,000 of the funds provided by them for the provision of an adequate broadcasting service should remain in the Government's hands, and apparently be appropriated to the general funds of the Treasury. That creates the situation that radio listeners are being subject to a special tax for the benefit of the General Treasury. Much concern is being shown at the situation, and representations of protest are to be made to the Federal authorities.

THIS situation has its moral for New Zealand. It shows that once the broadcasting service is left in the hands of the Government, without definite contractual commitments to an outside company or other authority for the administration of the service, the quality of the service is subject to the vagaries of the political mind and political exigencies. There is no commitment upon one Government to prosecute with vigour and effect the obligations entered into by a preceding Government. In our situation here in New Zealand one Government might, for instance, embark upon such a policy as was outlined by the Hon. J. B. Donald. A subsequent election might put into power a different Government. That Government, naturally enough, would have its own views upon the broadcasting service and, as in the case of Australia, might by variation of administration, follow such a course as in effect to break faith with the listening public. Where a service is left to the vagaries of political fortune, the listener cannot have stability of service. In addition, if the service is to be left wholly or in part subject to direct Government control, it will prove impossible in actual practice to prevent the irruption of political influence or favour. We contend, in the light of Australian experience, that where a body of people such as radio listeners are paying a definite fee toward the maintenance of a definite service, the administration of that service should not be a matter of indefinite political promise, but a matter of definite contractual obligations with some organisation charged with the duty of administration. Listeners in New Zealand would be well advised to ponder the situation now revealed in Australia, and recorded in fuller detail in a news article elsewhere in this issue, and reflect upon the possibilities of a similar situation arising in New Zealand in the future unless adequate safeguards are provided for their protection.

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Cook Strait Swim

Radio on Accompanying Launch

WHEN Miss Mercedes Gleitze, the celebrated English long-distance swimmer, sets out early next month on an attempt to swim across Cook Strait, radio-set owners in New Zealand, and in Wellington particularly, will have an opportunity of following her progress.

Arrangements have been completed with Miss Gleitze, Mr. J. Tait, whose launch will accompany the swimmer, and station 2YA by Messrs. Green and Dixon, two Wellington radio enthusiasts, who for several years have had considerable experience in amateur transmitting. Their calls signs, ZL2GR and ZL2BO respectively, have at various times been heard in all quarters of the globe.

The apparatus which they intend employing is a portable short-wave telephonic transmitter using the Heising system of modulation. The wavelength will be about 80 metres. Power will be supplied from heavy-duty dry batteries. The set will be sheltered from the weather in a cabin in the bow of the boat, and the microphone will be so arranged as to be able to be carried about within a radius of six or seven feet. For some time the transmitter has been on test and has given every satisfaction, having been heard all over New Zealand.

During the trip across the strait the apparatus will be working all the time, and at intervals the messages will be broadcast from 2YA. For reception purposes an ordinary broadcast set will also be carried. Another mast will be temporarily erected on the launch to support an aerial.

Open-Air Concerts

A Christchurch Innovation

THE public has appreciated the fact that the Broadcasting Company has by holding 3YA band concerts in the open air made them generally available. Crowds of several thousand people have attended each concert and much appreciation has been expressed. The atmosphere of an open-air concert on a fine summer's night seems to be imparted to the actual broadcast as well, for letters commenting on the enjoyableness of these concerts have been received from as far north as Tauranga.

Christchurch has proved an ideal place for holding open-air concerts. The city is singularly favoured in respect of the number of parks which it possesses and in the spell of glorious weather it has experienced.

2YA's Silent Night to Go

Special International Concerts

ANOTHER great advance has been made in New Zealand broadcasting. The silent night at 2YA is to go. For some time now a considerable amount of discussion has centred round the silent night question. There have been difficulties, but they have now been overcome, and listeners will no doubt be delighted to hear the announcement. This innovation is to take place on the first Wednesday in February.

One of the main obstacles that has held back the introduction of this extra programme has been the limited available talent, but Mr. A. R. Harris's recent trip to the United States has resulted in this difficulty being overcome. Listeners will remember that in August last the announcement was made that 2YA would broadcast special recordings of overseas programmes. These recordings have made possible almost perfect reproduction of programmes as they are presented in overseas studios. In New York, for instance, there is no end to the amount of broadcast material offering, and wonderful material it is. This profusion of talent is now to be broadcast from 2YA on Wednesday evenings. The entertainment will be a departure from anything previously broadcast in New Zealand, or for that matter in Australia. The evening will be known as "International" and as well as the musical programmes there will be a talk on international affairs.

Apart from the very interesting nature of this broadcast, Wellington listeners who have been annoyed on Wednesday evenings by oscillating valves will welcome the decision. Since the inception of our present system the oscillating valve has marred programmes on the local station's silent night. The inability of small sets to eliminate the local station has been evidenced by the absence of the noise on nights other than the silent.

The smaller set-owner who, whether he has been oscillating or not, has been able to receive outside stations on Wednesday evening, may not welcome the idea, but when it is remembered that this programme is to be altogether different from anything that he has ever heard before, and, because of its nature, must remain different, he will have adequate compensation.

When further details come to hand they will be published in the "Radio Record."

Unusual Turn for 1YA Lightning Strikes an Aerial

A Balalaika Item

SIMON PHILLIPOFF, who since leaving the Ukraine eight or nine years ago has been travelling round the world, will broadcast from 1YA on Wednesday, January 21. He is an adept exponent of the balalaika, the Russian national instrument, and as such gave an excellent performance from 1YA about ten months ago. The instrument is somewhat similar to a guitar with a triangular body, and it has three strings, two tuned to B and the other to A. It is a difficult instrument to play and exponents such as Phillipoff are rarely met.

VERY few instances of lightning striking an aerial are on record, but such an occurrence took place in Melbourne recently during a heavy storm.

A house was being wired for electricity, and it was necessary for the electrician to hold the wireless aerial out of his way while certain alterations were being effected. He had actual contact with the aerial for some fifteen minutes, and had released it a matter of seconds only when a tremendous lightning flash struck it directly.

There was an ear-splitting detonation, a blinding blue flash, and a deluge of rain. Investigation showed that more than six feet of the heavy wire of the aerial had been burnt, leaving the electrician still standing almost in contact with what remained! The efficiency of the lightning arrester was proved when the radio receiver was examined later. It was switched on and immediately brought in one of the local programmes.

A Military Radio Course

For French Youths

YOUNG men in France are now given an opportunity of a three weeks' course of instruction in military radio telegraphy. The recruiting offices draft applicants into various regiments, according to the special aptitude of each. Those who have served any previous time are naturally sent to their old regiments, as the reservist knows a few tricks of the trade, and enjoys the prestige that experience commands over novices.

The first day of the course is taken up by formalities of registration, medical examination, vaccination, etc., and in becoming acquainted with the camp. With the second day instruction commences in earnest. The first thing to be done is to refresh in the memories of the reservists all they learnt during their previous training with the engineers. Each day commences with a lecture on telegraphy, given immediately after arising in order to clear the mind from the haze of sleep. Interest wanes until the old familiar knowledge of dots and dashes has been revived, and then enthusiasm knows no bounds. The result is that by the end of the first week the majority of radio telephonists are capable of sending 400 words per hour, and after three weeks' training, 900 words per hour. Then there is practical instruction in assembling and dismantling, culminating in competitive examinations, together with the ordinary military training.

Then there is still another group of reservists who during the three weeks work through a considerable number of text-books on military telegraphy, radio-electricity, and carrier pigeons, with a view to obtaining promotion to the rank of section commanders.

The aim of this course is to teach the recruit how to maintain communications between the different sections of the infantry divisions of each regiment. Each infantry division has a telegraphic company, in charge of communications by telegraph and semaphore, and a radio detachment. If necessary a loft of carrier-pigeons is included.

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Kingsford Smith uses Burgess Batteries. Commander Byrd uses Burgess. More Burgess Batteries are sold in New Zealand than any other make. Why?

BURGESS RADIO BATTERIES

New Sound Film Equipment

Designed by Marconi Company

THE Marconi Company have now entered the talking-picture field, and, characteristically have created a sensation among the trade by the excellence of results secured by their sound-recording equipment.

At a recent motion-picture trade exhibition held in London, the first talking film recorded by the new "Visa-tone" process, as it is called, was the subject of much comment because of the crispness and clarity of reproduction. Dialogue was clear-cut, and the difficult "s" and "t" sounds, which are the crucial tests of a recording system, reached a high degree of purity.

Of Topical Interest

RECENTLY "Switch" mentioned that 3AR, Melbourne, had gone off considerably in volume. The Melbourne "Listener-in" publishes the following letter, which endorses "Switch's" statement:—

"Dear Sir,—What has happened to 3AR lately? This used to be one of the best stations for us to tune in; we got good clear transmission with great volume. Now the transmission is poor and most of the volume appears to have evaporated. This is not due to my set or atmospheric conditions, because other Melbourne stations, including the V.K.'s on Sunday nights, come in as well as ever.—Yours faithfully. A.E.R."

WHEN telephones are not left connected permanently to the set, but are put away, make sure they are placed in a dry airy position, as dampness is detrimental to them.

Octet's Temporary Leader

Distinguished Army Bandsman

MR. H. G. GLAY-SHER, who, as deputy conductor of the 3YA Studio Octet, has been in charge of that combination during recent weeks, while Mr. Harold Beck has been on holiday, is well-known to 3YA listeners as a harpist, on which instrument he is a very accomplished player. Mr. Glaysher has had a very interesting musical career. He has to his credit nearly 27 years of service with the band of the Royal Artillery.

Enlisting in the band as a boy of fourteen, Mr. Glaysher received his musical training at the Army School of Music, Kneller Hall, where every branch of the British Army, white as well as black, is represented.

The Royal Artillery Band is the largest in the British Army, being 92 strong, every member being a double handed player—the band being both string and military. Mr. Glaysher's instruments are harp, violin and clarinet.

As a member of the famous band he was privileged to attend many historic functions, including Queen Victoria's Diamond Jubilee, the funeral



Mr. H. G. Glaysher.

of Queen Victoria, the coronation of King Edward and the funeral of King Edward, and the coronation of King George. He also attended all the banquets held in Buckingham Palace, Windsor Castle and the Mansion House, and the Royal Academy banquets at Burlington House. He visited New Zealand with the Artillery Band at the time of the Auckland Exhibition.

During the war, the band was engaged for six months every winter in playing for the troops in France and Belgium. After the Armistice the band toured France, Belgium and Germany, the tour concluding with eleven days in Paris, when the signing of the Peace Treaty was celebrated.

While in France, the band experienced the rigours of campaigning and suffered losses. On one occasion it was playing near the front line where the German trenches were only 200 yards away. A German band was playing at the same time. The Artillery Band had concluded its programme, and was in the middle of playing "God Save the King" when the enemy commenced to shell very heavily and inflicted severe losses.

Wavelets

IT is rumoured that a wireless station is to be installed at Mecca to call the faithful to prayer.

A lady was chosen from among 180 applicants to fill the role of announcer at Turin.

THE most powerful Mexican station, XEW, is now transmitting on a wavelength of 385 metres (780 k.c.).

WHEN a famous Dutch historian gave a ten-minutes talk on Rembrandt recently an American broadcasting network conducted a relay.

THE B.B.C. encourages young composers by broadcasting those works deemed worthy of recognition.

AN American contemporary states that the National Carbon Co. are making a new battery of dry cells, which are composed of porous electrodes which are capable of absorbing oxygen from the air continuously. It is claimed they will maintain a seven-valve receiver for a thousand hours.

Our Mailbag

Competition Wanted.

A CORRESPONDENT, "Rufus," from Ashburton, asks if it would not be possible to arrange a competition for readers who are not listeners. He states he is an enthusiastic reader, but funds will not permit his building a set, and he would like the chance of becoming a set owner. We have had a few letters from readers who are not listeners, but we think their numbers are really too small to permit a competition for them. We have in view a project which will possibly interest non-listening readers.

An Unrehearsed Incident.

QUITE a humorous though unrehearsed incident happened in the afternoon of Thursday, January 8, 1931, at the conclusion of a humorous record, a dialogue between two artists concerning road holes in London. Following an inquiry from one humourist, the other found the class of submerged pipe to be gas, by the aid of a match and hammer, with the usual result. Immediately listeners heard the fire engine coming down this London street to extinguish the flames. Then Mr. Announcer politely informed listeners that the Wellington Fire Brigade had just passed by the studio. Not the recording of a siren after all, but the sound of one picked up by the microphone, at quite an appropriate moment.—Sense of Humour (Wellington).

2YA's Programme.

THERE is obviously considerable dissatisfaction with 2YA programmes, and it is certainly surprising that no apparent effort is being made to improve them at this station. 2YA is the "king" station in New Zealand, and there are possibly thousands of listeners who depend on it for entertainment, as the other YAs are too weak to give enjoyable reception. 2YA's weakness appears to be an excess of vocal items, 1YA and 3YA have numerous piano items, and also first-class instrumental trios. If these stations can provide first-class music of this description, surely 2YA can do so also. It almost appears to the average listener that 2YA, knowing that so many listeners depend on it, and that consequently it does not have to cater for listeners, puts on programmes of mediocre quality. Some of the bands that play at 2YA are appalling, as are some of its artists, and if 2YA would only on one night a week put on a programme of selected records of good music similar to its Sunday afternoon programmes, I feel sure that hundreds of listeners would be gratified. 2FC., Sydney, on Sunday evenings have what they call celebrity records recitals, and they are wonderful. If one night a week (Sunday would be most suitable) was devoted to this class of entertainment no listeners would object, and I am sure the bulk of them would welcome the change.

I sincerely hope that this suggestion will be considered by 2YA authorities. —Screen Grid" (Opunake).

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9d. Each.

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Breaking into the Amateur Game

Part IV—On the Air for the First Time

By "Q.R.L."



THE tuning of the Hartley transmitter described in the last article is not a difficult process. If the transmitter has been solidly constructed so that no vibration of parts or leads is possible, and a suitable power input is used, the outfit is capable of producing a clean, steady signal of which the operator will be proud. The tuning, however, will help to determine the character of the signal, and may completely change its note, if an RAC input is used. Hence it is important that the transmitter be correctly tuned, for a poor signal reflects discredit on the amateur responsible. The finer points of tuning will come with actual experience on the air, but it is the essentials given here which count most.

Now, before any attempt can be made to tune the transmitter, some means of listening to the signal must be available. For this the ordinary short-wave receiver may be used, or a monitor, which is simply a single valve receiver. The first essential is to tune the transmitter to the desired frequency, which must be within an amateur band—in the first case the 75-85 metre band. While this is being done the antenna gear may be left disconnected. The receiver should be moved not less than six feet away from the transmitter and tuned (oscillating) to some wavelength known to be within the 75-85 metre band. All connections to the transmitter should be checked, the filament clip being on the fourth turn from the grid end of the plate coil. The power may then be connected up and switched on, the key pressed, and the oscillator condenser turned until a loud whistle is heard in the receiver. This is the transmitter's wave, and a capacity of about .00025 mfd. in the condenser should bring it within the band.

If no whistle is heard, the transmitter is not oscillating and the filament clip should be moved a turn or two closer to the plate end of the coil. When the wave has been located well within the band, the antenna gear may be connected up with the coil, separation about two inches, and the torch bulb in the circuit. With the key pressed, the antenna condenser should be varied until the bulb lights up to the maximum, and responds instantly to taps of the key. If more capacity is required across the antenna coil, a small fixed condenser of about .00025 mfd. may be connected in parallel with the variable one. Although greater power is transferred to the antenna when its coil is closely coupled to the oscillator, a spac-

ing of less than two inches should be avoided, because the wave radiated will be much broader (i.e., will cover more of the dial in a receiver and cause interference).

The note will also be rougher, and the steadiness of the signal will be affected. It is important to remember that the strength of a signal is far

ones with their meaning are shown. The amateur has also devised a handy standard system of abbreviations consisting mainly of shortened words, and a few of them are given, though they are very easy to pick up. The snappy use of all the abbreviations adds much to the pleasure of a contact. Suppose the amateur has gone

this: "ZL-4AA ZL-4AA de ZL-2AA; R ge OM se QSO; tnx call; ur DC sigs QSA5 R8 stedi; QRK? ARK." Translated, this means: "Received O.K. Good evening, old man, I am pleased to QSO. Thanks for the call. Your DC note signals are easily readable, strength 8. What strength are my signals?" The tables for readability and strength are shown. It is important to note that although signals may be strength R7, they may only be QSA3, owing to QRN (static) or QRM (interference).

Fullstops and semicolons in the message are translated by the symbol —, as shown in the diagram. The "K" at the end of the message tells ZL-4AA to go ahead with his transmission, and he would then give the other a report on his signals. The two would continue thus to send anything of interest across to each other—"swap dope" is the amateur term. When one has exhausted his supply of dope he would say: "Well OM QRU hr nw, so WL QRT. 73 es tnx QSO gn AR VA." This means "Well, old man, nothing further here now, so I will close down. Best wishes and thanks for the QSO, Good night." VA means that the QSO is finished. For the majority of QSO's this sign-off is quite sufficient and is better practice than the usual rigmarole about nothing in particular adopted by some amateurs.

If the signals are weak and hard to read, each word of the message would be sent twice, but the receiving operator will generally say if he wants it sent "double." Occasionally, if there is QRM on the particular wavelength of a station, the receiving "op" will ask the other to QSY, i.e., change his wavelength. This change should always be slight, just sufficient to get clear of the QRM, and the sending "op" should say whether he intends to QSY up or down in wavelength.

It will be found easier to pick up the simple methods of operating by listening to amateurs actually "working" one another.

The "Break-in" System.

ANOTHER system of communication is "break-in." If handled properly it is more interesting and faster than the other system. It is simply "duplex telegraphy," each operator having his receiver and transmitter on, and being able to transmit by merely pressing the key. Thus a conversation may be carried on without the necessity for "changing over." The system is not used much in New Zealand, probably owing to the fact that interference from the transmitter is caused if the re-

INTERNATIONAL PREFIXES

ZL—New Zealand	I—Italy	RA—Russia
VK—Australia	T—Japan	SM—Sweden
VE—Canada	K—W.S. Possessions	SP—Poland
CT—Portugal	LA—Norway	SU—Egypt
D—Germany	LU—Argentina	X—Mexico
EAR—Spain	ON—Belgium	AC—China
EI—Irish F.S.	OZ—Denmark	ZS—South Africa
F—France	PA—Netherlands	
G—Great Britain	PY—Brazil	

from being the only thing that counts. Stability and pureness in a weaker signal will often get through where a loud but "wobbly" one would be "lost in the depths." When the oscillator has been adjusted to a wavelength within the band and the antenna tuned to resonance, the bulb must be shorted out by closing the small switch, and the transmitter is ready to go on the air officially.

Even if the transmitter delivers a good signal, its effect will be lost by poor operating of the station. No amateur in these enlightened times enjoys working a station whose operator is ignorant of the cardinal principles of two-way contact.

Two-way Telegraphy.

WE shall begin right from the start and trace the procedure of making and maintaining a contact. Owing to the obvious necessity of brevity with Morse transmission, a system of abbreviations is in use throughout the world by all Morse stations. These are known as "Q" signals, and the more important

through all the procedure necessary for establishing a station, and is ready for his first exhilarating plunge into amateur transmitting. Naturally he will be excited and very keen to make his first contact, no matter with what station. After making sure that the wavelength of his transmitter is correct, he should proceed to send out a call inviting any station who desires a QSO to answer him. This is known as a "CQ" call. If his call-sign were ZL-2AA, he would send as follows: "CQ CQ CQ de (meaning from) ZL-2AA," and would repeat this for two or three minutes. At the end he would send AR, indicating that the call was finished.

He would then switch the transmitter off and the receiver on, to cover the band listening for stations calling him. Such a call would take the following form, supposing a calling station were ZL-4AA: "ZL-2AA ZL-2AA ZL-2AA de ZL-4AA ZL-4AA," repeated for two or three minutes and finished off with AR. ZL-2AA would then go back at 4AA, sending something like

THE INTERNATIONAL MORSE CODE

A	• —	K	— • • •	U	• • —
B	• • • •	L	— • • •	V	• • • •
C	— • • •	M	— • • •	W	— • • •
D	— • • •	N	— • • •	X	— • • •
E	• • • •	O	— • • •	Y	— • • •
F	• • • •	P	— • • •	Z	— • • •
G	• • • •	Q	— • • •	General Call	— • • •
H	• • • •	R	— • • •	Attention Call	— • • •
I	• • • •	S	— • • •	End of Message	— • • •
J	• • • •	T	— • • •	End of Transmission	— • • •
1	• • • •	6	— • • •	"Go Ahead" transmitting	— • • •
2	• • • •	7	— • • •	Received (O.K.)	— • • •
3	• • • •	8	— • • •	Interrogation ?	— • • •
4	• • • •	9	— • • •	Period (.)	— • • •
5	• • • •	0	— • • •	Double Dash	— • • •
		Comma	— • • •	Distress Signal	— • • •

ceiver is nearby. Separate aerials are also necessary, but these difficulties could be easily overcome.

Often two amateurs who have special experimental or personal traffic (messages) to put over, will arrange to work each other at fixed times. They establish what is known as a schedule, or "sked," and in America, where mes-

QRN caused by hundreds of stations being squeezed into a narrow channel only 300 k.c. wide. It is rare to conclude a DX QSO on "40" without experiencing QRN, more or less severe, from some station or other.

The best DX band is the 20-metre band, but only in one season. From April to December there may be no

becomes more critical. It becomes harder to maintain a good note and stability of signals. In a single valve, or "Self-excited" transmitter, there are several factors which sometimes cause the signal to vary slightly in frequency.

If the valve is at all overloaded (i.e. the input is too great for the valve) heating of the elements will cause them to expand, thus changing the capacity between them, and making the signal "creep" in frequency. Also, swinging antennas or fluctuations in the plate or filament power supply will wobble the signal. These difficulties are not great in a sensibly-designed and operated transmitter, but to overcome them and secure absolute frequency stability there has arisen in recent years a type of transmitter known as "crystal-controlled."

The basis of this type is a small quartz plate, ground to a definite thickness, which entirely controls the frequency of the oscillating tube circuit in which it is connected. Only changes in temperature will cause its frequency to change. The power to this "crystal-oscillator" is very low and is kept con-

Tabloid News

A LONDON scientist, Mr. J. H. Thompson, is reported to have discovered that human blood pressure is definitely affected by music. He claims to have established by experiment that the repetition of one piece of music or of the same type of music lowers the blood pressure, and that a change raises it. Further research may therefore reveal the means by which broadcasting companies can improve the health and spirits of their listeners by planning programmes scientifically, giving items specially beneficial for those whose blood pressure is normally too high.

APPARENTLY the announcer of the radio station at Lyons, France, is a very busy man. To save time (writes a French contemporary) his barber calls upon him once weekly, and while trimming his hair, giving him the usual shampoo and dry wash, tells him all the local news. Recently the station director conceived the brilliant idea of keeping the "mike" alive on these oc-

"Q" SIGNALS

QRA—Location of station.
QRH—Wavelength.
QRI—Tone of signals.
QRK—Strength of signals.
QRM—Interference.
QRN—Static.
QRO—Higher power.
QRP—Low power.

QRS—Sending slower.
QRT—Stop sending.
QRU—Nothing further.
QRE—Waiting.
QSA—Readability.
QSB—Fading.
QSL—Acknowledgment.
QSO—Contact.

sage handling is unrestricted, thousands of skeds are maintained all over the country.

The amateur is always the leader in radio exploration. After discovering the capabilities of the present-day short-waves, he is now experimenting on the ultra-short wavelengths of 10 and 5 metres. Test transmissions on these frequencies are regularly taking place, and although little encouragement has been obtained from the results so far, those responsible are persevering.

The Amateur Wavebands.

OF the amateur wavebands, there are three chiefly used, each having definite characteristics. The 80-metre band is not good for DX, but is less subject to variations in reception conditions, and is used for most contacts within New Zealand. Beginners must stay on this band for the first few months, and all the year round they and many older hams can be heard chatting to each other on Morse and phone. On 40 metres the DX is moderate most of the year, and good between the months of December to March, when contacts with Europe are easily made with only medium power. The disadvantage of this band is the

stations heard but locals, but thereafter the signals come rolling in at good strength from the four corners of the earth. Static is not as a rule so troublesome, but a curious effect known as "skip-distance" is felt on this band. A high-power station 100 miles off may come in at much less strength than a similar one 1000 miles away, because of the reflection of the waves by the Heavieside layer. Fading is occasionally bad on this band. Daylight is better for reception, as signals begin to fade out with the approach of darkness.

It may puzzle some readers as to the procedure of making contacts between amateurs speaking a different language. However, all amateurs use their international abbreviation language with English as a basis, and all foreign hams know this. Another interesting point is the time difference between countries. It is quite common for the amateur at one end of a contact to be about to go to bed, and the other to work, as in the case of N.Z. and U.S.A.

Securing Stability.

On the higher frequencies (shorter wavelengths) the adjusting and tuning of the transmitter and receiver

stant, thus avoiding heating. The output of the oscillator is then fed into a graduated series of R.F. amplifiers, each "exciting" the next one. Each amplifier is simply a transmitting valve, arranged to amplify, and the final one couples the power into the antenna. Nearly all broadcast stations are crystal-controlled, and many amateurs use this method on a smaller scale, but it is too complicated for beginners to touch.

There are dozens of other interesting factors in the amateur game besides those mentioned here. Space does not permit of more being described, but they will all be met with when one gets on the air. In all phases of radio it is experience that counts, and especially

casions, so that listeners are now treated to a running commentary on the petty incidents and scandals of high (and probably low) life in the city of Lyons. Why not carry the idea a step further? Why not invite a chiropodist to the studio, and if the listeners really do require "pep," an interview with the dentist before the microphone should give them all the thrills required. Just imagine hearing that drill in somebody else's tooth!

with the ham. For a really live hobby there is none to better amateur transmitting, for metaphorically "His is the world, and all that's in it." To all followers of these articles, the writer wishes good luck and 73.

ABBREVIATIONS

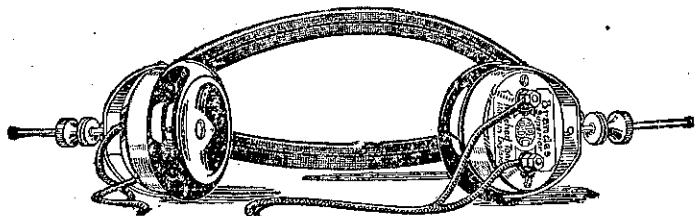
sked—schedule
sri—sorry
TOA—to-day
ths, tx—thanks
U—you
ur—your
vy—very
wen—when
wkd—worked
wl—will
wx—weather
Xmtr—transmitter
YL—young lady
73—Best wishes
abt—about
agn—again
amt—amount
ani—any
BCL—broadcast
listener

B4—before
BK—break
BN—been
CK—check
CKT—circuit
cond—conditions
cud—could
cul—see you later
cum—come
em—them
es—and
FR—fine business
FM—from
GA—go ahead
GB—good-bye
GE—good evening
gud—good
Hi—laughter
hr—here
hrd—heard

hv—have
hw—how
mani—many
nd—nothing doing
ng—no good
nite—night
NM—no more
nw—now
OB—old boy
OM—old man
op, opr—operator
OW—old woman
(wife)
pse—please
pwr—power
R—O.K.
Rpt—report, repeat
sa—say
sed—said
sigs—signals

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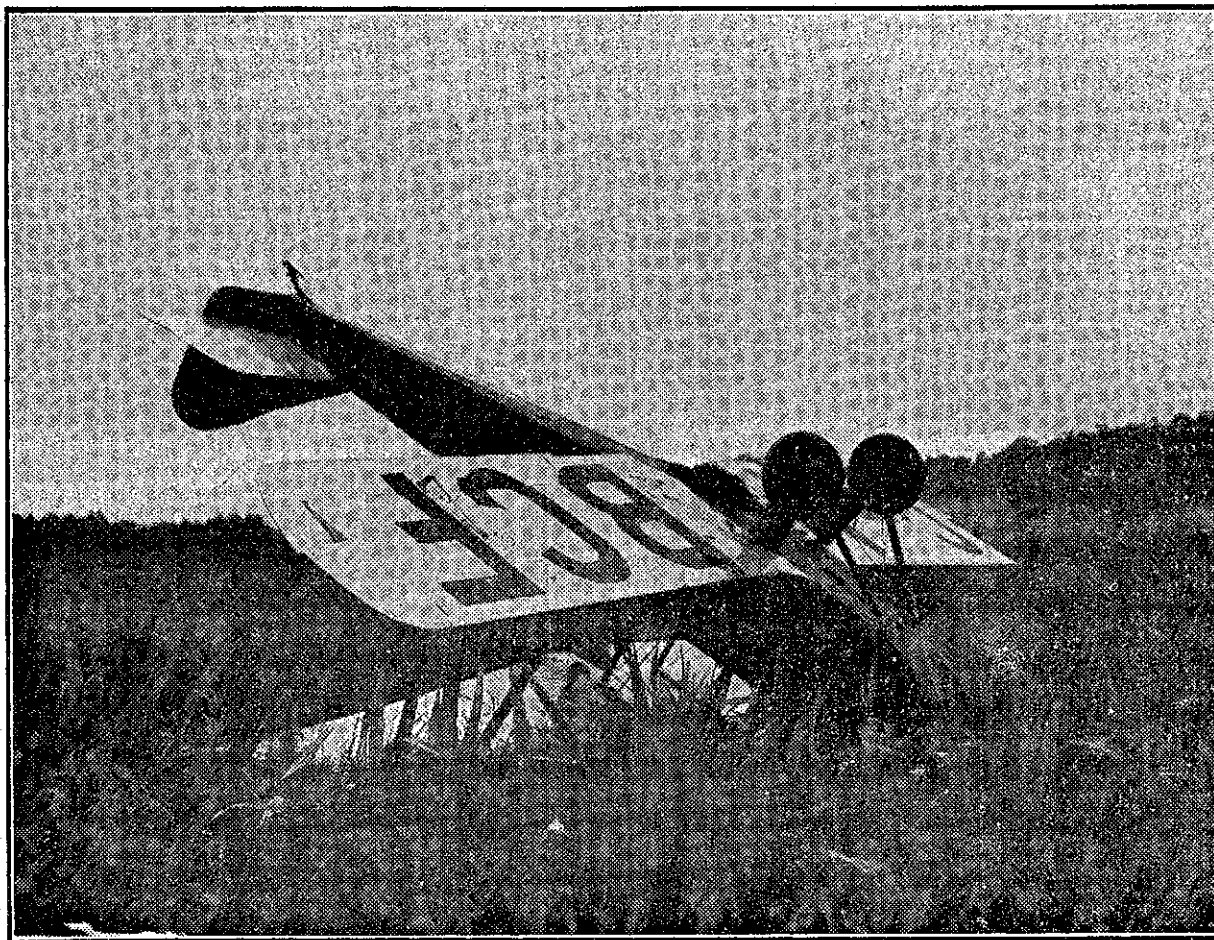
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A view of the Southern Cross Junior after she landed at Harihari, south of Ross, on Wednesday afternoon. The picture gives a good impression of the country in which Mr. Guy Menzies ended his trans-Tasman flight by dropping, head first, out of the cockpit.

News — Startling and Unexpected

"THE Southern Cross Junior left Sydney at 1 a.m. for New Zealand."

That was startling news, unexpected, mysterious and sensational. It was to open the way for another triumph for broadcasting. No one in New Zealand had imagined for a moment that a lone flyer would cross the Tasman in twelve hours, and most unlikely would it have seemed that, from a small town on the West Coast he would be able, through the miracle of radio, to greet the people of New Zealand the same evening.

This was the third trans-Tasman flight to make radio history in this country. The first was that of the ill-fated Captain Hood and Lieutenant Moncrief; then came the flight of Kingsford Smith and his three companions in the Southern Cross, whose epoch-making landing at Wigram aerodrome is marked by a slab, engraved: "They came on the Wings of the Morning."

The intrepid Guy Menzies has been responsible for the third sensation.

The news of the departure of the Southern Cross Junior brought the YA stations again to the forefront and demonstrated once again the efficiency of the Broadcasting Company's organisation in handling events of wide public interest at very short notice. Many people received the first intimation of the Australian pilot's flight per medium of radio, and those with receiving sets were in receipt of the latest details immediately they were available. As soon as this news was authenticated,

New Zealand learns
by Radio that Tasman
has been crossed by
Lone Flyer

urgent telegrams were sent to 1YA, 2YA and 4YA. 2YA was observing a silent day, but such was the enthusiasm of the staff that, realising the Dominion-wide interest which would be evidenced in the news, they were at their posts in a very short time, and the station was on the air to broadcast the news of Menzies's arrival at Harepo. Every source of information in Christchurch was kept in touch with, and all news was at once telegraphed to the other stations for broadcasting.

Rumours and reports soon gained currency. At first it was assumed that Kingsford Smith was in the plane. From an authoritative source it was learned that this was not so, but for some time the identity of the intrepid airman was veiled in mystery.

From 3 o'clock onward, at intervals, all available news was broadcast, but no one knew where the plane was heading. On the chance that it would land at Wigram, 3YA rushed out its relay equipment and operators, while the Post and Telegraph Department arranged for a special line. Then it was considered that if the airman had not been blown out of his course, he would be more likely to land at Blenheim or Wellington. An urgent call was sent through to the aerodrome at Blenheim, and arrangements completed for any news to be sent to the broadcasting stations immediately should Menzies arrive there.

As time went on, and over 12 hours had elapsed since the departure from Sydney, excitement became intense. It was estimated that with a favourable wind and doing about—(Continued on page 29.)

100 miles an hour, the Southern Cross Junior must then be within coo-ee of New Zealand. But where was it, and where was it heading for?

Some people, at any rate, took the whole flight as a matter of course. A lady rang up 3YA: "What time is the aeroplane to land at Wigram?" It was an unconscious tribute to the great confidence which the public now has in flying and flying men.

The general public was on the tip-toe of expectation awaiting the news of the flyer's safe arrival, and at 3.30 p.m. the New Zealand stations were able to relieve the general tension with the reassuring and definite announcement that the airman had landed in a remote part of the West Coast.

That news was at once broadcast and set the minds of listeners at rest. Urgent telephone calls went through to the Coast, and the latest information was gleaned. Pushing still further, the Broadcasting Company set to work

to secure a talk from Mr. Menzies if at all possible, and announcements to this effect were broadcast. The Post and Telegraph Department heartily co-operated in making a line available.

But it was not until 10.40 p.m. that Mr. Menzies was able to speak from Hokitika to 3YA and to greet the New Zealand public.

Thus was another historic milestone in the history of broadcasting in New Zealand passed. The manner in which the occasion was handled re-

flected the greatest credit on the Broadcasting Company.

Hood and Monerleff.

THE successful flight of Guy Menzies recalls the brilliant but fatal effort of the first Tasman fliers—just three years ago.

Listeners will still remember the way in which the YA stations followed the flight and helped to buoy up hope as long as any remained. At the commencement of the news session at 7 o'clock on January 10, 1928, listeners were informed of the plans for keeping them in touch with the evening's developments. Hood and Monerleff were expected to land at the Trentham racecourse between 7 and 8 p.m. Land lines had been run out and members of 2YA's staff were at the racecourse with a microphone.

The last tidings from the airman were received at 5.22 p.m., when the note from the radio set which they carried was heard, and at 8 p.m., though there was very little to report, the station went over to the Trentham racecourse. The vivid description of the crowd and how their emotions changed with each alarm will long be remembered by those who listened to that broadcast. Though, when the airman did not arrive on schedule, broadcasting took place from the studio, the staff at Trentham kept in constant touch with the station, and at frequent intervals listeners were taken back to the racecourse for the latest news.

The news reports were handled in a manner which reflected great credit on the announcer. Frequent and misleading reports were constantly coming to hand, and these were very carefully weighed and their possibilities considered before being put on the air. Nothing concerning the arrival of the airman in any part of New Zealand was broadcast as authentic, and in this way listeners were in a better position than those on the course, who were constantly misled.

Admiration and an appeal to human sympathy was evoked when Mrs. Monerleff, wife of one of the missing airmen, at midnight rose to the occasion by saying a few words through the microphone. With steady voice and full of confidence she breathed her conviction of her husband's capacity to make a successful landing.

Time dragged on and yet no authentic news from the airman. The time came when rockets were sent up, still without avail. At 2 o'clock the crowd had dwindled, and at 2.30 a.m. 2YA reluctantly closed down and the worst was realised.

Kingsford Smith.

IN the first successful flight across the Tasman Sea, radio again performed a noteworthy service. From the time the "Southern Cross" left Richmond at twenty minutes to six on Monday, September 10, 1928, all New Zealand stations, and indeed all the Australian, broadcast news of the flight. It was hoped that 2BL might be rebroadcast when relaying a description of the

take-off, but static was fierce and this was impossible.

Official news was given by the New Zealand stations as it came to hand, and it was again summarised in a review after each hour during the evening. To add a note of romance to the long vigil, the hum of the generator which was carried in the "Southern Cross" was broadcast. Listeners will long remember that all-night broadcast, when very many remained up all night to follow the flight through its many stages. They were not a little surprised at six o'clock on Tuesday morning to learn from 2YA that the plane had been sighted over Wellington. It was a grand, thrilling moment, and we who listened can never forget it. Through radio, a thrill ran through the whole of New Zealand, and from that moment onward interest, which was never flagging, became intense. The plane could be followed down New Zealand to Christchurch. By this time the staff at 3YA had taken up their position at the Wigram Aerodrome, commandeering for an announcer's stand a building overlooking the landing ground.

As each plane from the aerodrome took off to meet the "Southern Cross" the hum of its propeller was picked up by the microphone, and sent out to thousands of listening ears. When listeners were told that a huge excited crowd was rapidly accumulating, they knew that this was one of the great events in our country's history and that through radio they were not going to miss it. There was an unmistakable note of excitement in the 3YA announcer's voice when he said that the plane had been sighted. It circled the thickly populated landing ground, took up its bearings, and then made a perfect landing. Nothing but the cheers of the assembly could be heard through the microphone for a long time, and then the news was broadcast that Mr. McWilliams, the New Zealand radio operator, was to speak. Shortly afterwards, Kingsford Smith and Ulm were whirled to the studio at 3YA, where they, too, broadcast a greeting. This was at about ten o'clock on Tuesday morning. All New Zealand stations had created a record in broadcasting, for they had been on the air over fifteen hours without a break. On the return journey they performed an equally fine service.

KNOW the time all over the world

with a

DX Clock.

Printed on Heavy White Paper.

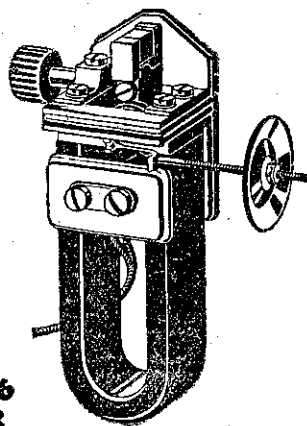
9d. Each.

Box 1032, Wellington.

DIAMOND

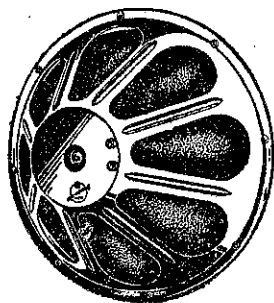
BATTERIES,
TUBES,
TORCHES
for
Best Results

ROYDS-HOWARD CO.
255 COLOMBO ST. CHRISTCHURCH.



BLUE SPOT LOUDSPEAKERS

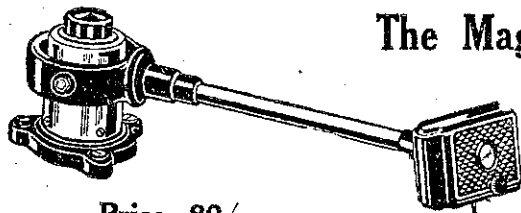
are the
best that
have yet
appeared



66
R

Every programme is beautiful, with chamber music as fine as you could only expect in a concert room; yet if you prefer jazz—listen to it with all its pep and snappiness.

Prices: Blue Spot Power Unit 66R..... 40/-
Cone Chassis Speaker, 14½ in..... 25/-



Price 80/-
with instructions

Has noiseless volume control and gives out clear, perfect music.

FACTORY REPRESENTATIVES:

SCOTT & HOLLADAY LTD.

CIVIC CHAMBERS, WELLINGTON.

Identification Wanted

ON December 5, 1930, 8.55 p.m. (N.Z. time), located an American station. KFO, Oakland, California, was the call sign, which was repeated at intervals and good speaker strength. He announced that they were broadcasting from "The Silver Slipper Cafe," Oakland, California. An item rendered was "It Must Be True." Now, regarding "KFO," I have searched all the stations listed in American radio books, and also our own past and present numbers of "Radio Record," but no such station is mentioned, although some of the call numbers listed come near it.—"Wireless Bug" (Raetihl).

AMERICAN station on approx. 227 metres (1820 k.c.), at 1.40 a.m. on January 2. Announcements: "New Year Greetings"; International Concert Orchestra playing an old favourite, "My Buddy," phonograph record. After above items, address was given, but could only catch "138 ——— Street." Later two violin solos were heard. Station faded out at 2 a.m.—"Jaka" (Wellington).

STATION just below 1YA on about 325 metres (920 k.c.) heard on January 1 at about 7.30 p.m. Bad hum spoilt reception. Strength was about R3 and the call sounded like WWK or WWJ. Another on approximately 207 metres (1450 k.c.) heard on January 1, was still on the air at 9 p.m. I am sure call was "WMBD." Would this be the station at Beoria Heights, Illinois?—W.S.K. (Nelson).

A NEW Zealand station on approximately 230 metres (1300 k.c.), heard on January 5, at fairly good strength, though reception was very mushy with slight fading. Lady announcer. Items heard:—8.50 p.m. "Bicycle Built For Two." 8.53 p.m. "Where Did You Get That Hat." "Good Times Are Coming." 9.0 "God save the King." I assumed call to be 2ZB Whakatane, but I am doubtful if this is correct as static was bad.—R.J.R. (P.N.).

KNOW the time all over the world with a
DX Clock.
Printed on Heavy White Paper.
Price 9d.

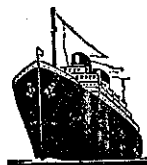
**NO UNEMPLOYMENT
IN THIS CAREER!**

There's remunerative employment waiting for qualified wireless men on shore and ship. Johnson's Wireless School takes you up to 1st or 2nd Certificate Examination Standard by easy progressive stages. Write for particulars.

Day and night classes for Proficiency Certificates. Correspondence classes for Proficiency Certificates. Correspondence classes for Amateurs and others.

JOHNSON'S WIRELESS
SCHOOL

St. George's Buildings,
8-10 Brandon Street,
Wellington.



News and Views of the D.X. CLUB

Stations Identified

R. J.R. (Palmerston North).—I am listening to your station on about 220 metres. I, too, cannot get his call, as he passes over it too quickly. I have heard it now a dozen times, and it seems like 3KL, 3BL or 3BO. If you get him right, let the club know, please. I will do the same.—"Amazon" (Palmerston North).

D.X. Topics

News from KFI.

THE following is an interesting letter received by us from the radio engineer of stations KFI and KECA:—

"Under the heading of 'DX Club' in the issue of 'Radio Record,' November 4, I note that a listener (J.T.S., Napier) reports hearing KFI on 1430 k.c. The explanation is as follows: Earle C. Anthony, Incorporated, operates two stations, KFI, 640 k.c., and KECA, 1430 k.c. The studios for both stations are located in the same building, which also houses the transmitter of KFI. The transmitter for KECA is located approximately one mile from the studios. The studio apparatus is so designed that it may be switched to either station, but one studio cannot be sent over both stations. Our announcements are inter-changed between the two stations at various times during the day. In a few instances the men have forgotten that the stations connected to their studio have been changed and have given the wrong call letters. This is probably what happened. Another possibility is that when KECA signs off at 11.0 p.m. PST the announcer gives a resume of the programme offered by KFI for the following day. This listener may have heard KFI mentioned during this period.

"I might add that we enjoy receiving the 'Record' with the radio news of the antipodes—Yours very truly, EARLE C. ANTHONY, INC.—KFI—KECA; CURTIS MASON, Engineer."

Still Many Scalps.

HULLOA, D.X-ers. I have two excuses for my absence. Finance and valves. Overcoming the former, eliminated the latter. A complete new set of valves has worked wonders to "Matilda." Since the transformation I have taken a little more interest in DX-ing and have added 1ZR, Auckland, 3ZU, Dannevirke, and 2NC, Newcastle, to my list. At this moment I am endeavouring to identify an Aussie on 218 metres (1375 k.c.). Static is bad, and my man is fading. He advertised stove black at 10.53 p.m. and played an orchestra waltz, "My Treasure," at 10.55 p.m., followed by a song, "When You—" I'll get him yet!

Where are all the old-time DX-ers? Surely not sitting back waiting for winter. There are many scalps to be col-

lected on odd nights.—"Amazon" (P.N.).

ON January 3 conditions were excellent and I logged a fair number of stations. JOAK, BK, and GK were coming through at good volume. 2NC, Newcastle, has been continually fading lately. I recently heard a station on 900 k.c. (333 metres). Call sign sounded like KVO, although I am not sure, as reception was very gushy.—T.J.L.T. (Wellington).

ON January 1 I received WENR, Chicago, on 344 metres (870 k.c.) at 8.20 p.m. I heard the item "For You, Just You" followed by a song. He then closed down.—C.W. (Wellington).

[Names of commercial sets must not be used as non-de-plumes.—Ed.]

AMERICAN stations received during the past month include WAPI, Birmingham, on 1140 k.c. (263 metres), KWFB, State College of Washington 1220 k.c. (346 metres), KSTP, St. Paul, Minnesota, and KMJ, Fresno, California. On January 4 KTAT, Fort Worth, Texas, was heard at R5-6 on 1240 k.c. (242 metres). He said that he was on a special charity programme and would be on the air till daylight.—W.S.K. (Nelson).

I HAVE received verification from 3GL, Geelong, and 2MV Moss Vale. 2MV have increased their power and their frequency is 1220 k.c. (245.8 metres). Hours of transmission are 2.0 and 3.0 p.m.; 5.0 to 6.0 p.m. and 9.30 to 12.0 p.m. (N.Z.S.T.). There are no Sunday transmissions. Address "Moss Vale Broadcasting Service Ltd., North Street, Moss Vale." 3GL works on 214.2 metres (1400 k.c.) aerial output 50 watts. They state that they have received quite a number of reports from N.Z. advising them that 3GL comes in at full loudspeaker strength. Address is "Geelong Broadcasting Company, Ltd., National Mutual Buildings, Moorabool Street, Geelong."—R.J.R. (P.N.).

THE power of KTM taken from a verification dated November 28 is 500 watts.—H. Walker (Bluff).

RADIO Saigon is situated at Chi-Hoa, a few miles from Saigon. Transmitter is stabilised by piezo-electric quartz. Anode tension is 10,000 volts, and the aerial power 12 k. watts. Wave-length 49 metres, signal call F31CD. Call "Hello,

Hello, here is Radio Saigon." There are two other stations in Saigon, one, a Government transmitter working on 24.91 metres on 'phone and c.w. with Paris and Japan. The other is a privately owned station on 31.30 metres, aerial power 800 watts. Saigon time is 7 hours ahead of G.M.T. or 46 hours behind New Zealand standard time.—E. Angles (Nelson).

[The transmission schedule of this station was published a few weeks ago.—Ed.]

STATION KGMB put over a special concert for New Zealand and Australian listeners on the evening of December 25. This was very well received here, being R9, steady, and practically free from static. During an interval the announcer stated that 368 letters had been received from New Zealand listeners during the year. WOAI and KMOX were recently logged, the former being at the greatest volume I have yet heard from America.

The new Australian station, 2MV, is also coming in well at present. DXers will find this station idig. above 2NC. I expect that "S.B." (Wellington) has realised by this time that the station he heard on 242 metres is 2NC, not 2HD. On December 29, at approx. 1.30 a.m., I heard the station that "Switch" mentions on 3AR's frequency, but thinking that it was 3AR, I did not bother waiting for call. It did not occur to me until later that it was too late for 3AR.—"Jaka" (Wellington).

TELEPHONES should always be treated carefully as they easily suffer from mechanical shocks.

NEVER use twisted flex for taking aerial and earth leads away from the set, for the aerial should be kept as far away from the earth wire as possible.

FOR SALE OR EXCHANGE

The rate for small advertisements under this heading is 1/6 cash for 20 words, and twopence for every other word thereafter.

OVERWEIGHT! Reduce to normal without dieting or strenuous exercise by taking Youth-O-Form Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

£22 EAGLE Midget Electric Radio, Five Valves, Triple Screen-Grid, Dynamic. Ask for approval offer. R. H. Co., 553 Colombo St., Christchurch.

WAIST reduced 9½ inches; weight reduced 20lb. 6 weeks with Youth-O-Form. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

£30 up rich-toned Metrodyne "Sterling" Screen-Grid 8, 10in. Dynamic.—Distance and volume second only to "Commander." R. H. Co., Christchurch.

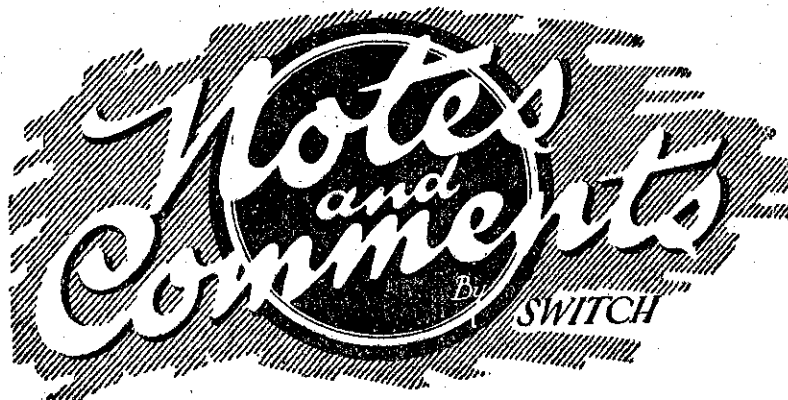
MAJESTIC COMBINATION, only used one month—in perfect condition—reasonable offer accepted. "Majestic," "Radio Record" Office.

STALLOY-TRANSFORMER. — Strips 86 x 1 inches, 2/- doz. Other widths proportional. Also supplied cut, punched. Special quantity quotations. Johns, Ltd., Chancery Street, Auckland.

60 years of age but feel as young as 40 since taking Youth-O-Form weight-reducing Capsules. 6/6 posted. A. C. Timms, Chemist, Pahiatua.

64 Stations on Metrodyne Screen-Grid "Commander" — Americans, Japs, China, Hawaii. List available. From £35. R. H. Co., 553 Colombo St., Christchurch.

YOUR BAGGAGE
INSURED against loss
or damage from any cause
The premium is moderate
the cover is WORLDWIDE
Offices in all principal towns
and cities throughout New Zealand
NORTH BRITISH & MERCANTILE
INSURANCE CO. LTD.



STILL another B class station is listed to commence broadcasting in Victoria within a few weeks. It is to be known as 3WR, Wangaratta. The power will be 50 watts in the aerial, and possibly it will be heard in some favourable localities in New Zealand. The wave-length allocated is 238 metres (1280 kc.). The Heising system of modulation will be employed, and a crystal oscillator stage will be embodied in the circuit.

MARCONI is still as enthusiastic as ever, and broadcast listeners may have further cause to thank him in the near future. Recently he said: "Wireless-controlled machinery, or even television, will not successfully operate in a perfect manner for many years to come. But I do think that I have time and the knowledge for making wireless transmission better than it is." This reminds one of a remark made at a Wellington home recently when a radio novice asked petulantly, "What's Marconi doing about this static? Can't he stop it?"

ALL New Zealand listeners who tune in to the Australian stations have probably heard the new station at Newcastle, 2NC. The studio is at the Strand Theatre, Newcastle, and the transmitting station is situated at Beresfield, 12 miles from the town. Mr. Stuart F. Doyle, chairman of directors of the Australian Broadcasting Co., states that a population of 200,000 in the Hunter River district, who previously had always experienced considerable difficulty in the reception of Sydney programmes, will be adequately provided for by the new station.

MR. KEITH GRANT, an ex-New Zealand vocalist, sang "Could I Express in Song" at the opening night of 2NC, Newcastle.

A WELLINGTON listener reported to "Switch" that while he received all stations on wavelengths below approximately 320 metres with good volume, he found that those operating

on wavelengths above that mentioned were relatively weak. This appeared to be a case calling for adjustment of the variable condensers in the set, and the listener was advised to have this attended. This was done and the trouble was thereby cured. This may serve as a hint to others who experience similar trouble.

DAYLIGHT reception of the Wanganui B class stations has been exceptionally loud in Wellington of late. The volume has been double that of the past, and the tone has been excellent. Reception has risen well above the usual electrical noise level which is very high in some parts of Wellington during the daytime.

MISS MERCEDES GLEITZE, when she attempts to swim Cook Strait in February, will be accompanied by a launch with a shortwave radio telephone transmitter. The progress reports will be rebroadcast direct from 2YA, Wellington. This is the first broadcast of the kind to take place in New Zealand. The shortwave operators, two well-known Wellington amateur transmitters, Messrs. Green (ZL2GR) and Dixon (ZL2BO) are to be commended on their undertaking.

distance reception, providing one's set is efficient, is a high and well-installed aerial.

THE latest radio sets are not necessarily the most efficient. "Switch's" own a.c. set was purchased four years ago. It has no screen-grid valves, nor the latest power valve. The circuit is of the neutrodyne type, and has what is known as an "inductor," a gadget to ensure equal volume on all the usual broadcast wave-lengths. There are four stages of radio-frequency, one heater-type valve as a detector, two stages of transformer-coupled audio-frequency, one valve being of the 210 power type.

THE writer's set, which is quite a good performer, is not permitted to work with worn-out valves. No one can reasonably expect good performances from the best of sets unless high-class valves are used, and these must be tested occasionally to ascertain their efficiency. A thousand hours' service is to be expected from the best valves, and if one uses a set for three hours daily, a year's service should be obtained from them. This set is operated about six hours daily, year in and year out. Hence not more than six months' life is expected of the valves.

THESE remarks concerning the normal lives of valves apply to those employed as amplifiers or as detectors. In the case of rectifying valves, some remarkable instances of longevity have come under "Switch's" notice. His own rectifying valve, which is of a high-class make, has been in constant use for about four years, and when tested recently was only slightly "down" in efficiency. This type of valve is well known to last out two or three sets of the amplifying and detecting types.

DURING the broadcasting campaign in Australia to raise the money for the Commonwealth conversion loan, New Zealanders were kept well posted in the individual amounts received by the various Australian A stations. The figures made available by the Commonwealth Treasurer show that a grand total of £640,140 was received as a direct response to the broadcast appeals.

RECENTLY the Australian Broadcasting Company received a letter from a listener in Queensland explaining a new use to which community singing could be put. A large snake was seen several times in the garden of a home in Mitchell, but no amount of strategy would entice the reptile into the open. Then, one day, the head of the house had a brilliant idea. It was community singing night, and, remembering that snakes are attracted by music, he placed the loudspeaker on the lawn, tuned in to 2FC, and awaited results. For half an hour nothing happened, but when "Yip I Addy" burst forth upon the air the reptile could keep to its hiding place no longer, but came out on to the lawn, either to hear more distinctly or make good its escape—which, no one knows. Down came the stick, and, with "Yip I Addy" as its funeral march, the snake's spirit flitted to the happy hunting ground.

THE Underwriters' Regulations are quite definite on the point of the gauge of wire to be used for aerials and earths. Despite this, an insurance agent recently informed "Switch" that lately he had seen wire employed which did not come up to the requirements of these regulations. No attempt had been made at soldering the wire joints and the earth wire was casually twisted around a water pipe. This was done by an expert. "Switch" asks, "Is it fair to the purchaser?"

STRAUSS'S immortal "Blue Danube" waltz, which has delighted millions of people for generations past, is apparently still unknown to some adults in this country. "Switch" heard a rumour that quite recently a couple of grown-ups, after hearing a delightful

Reception Table for Australian Stations

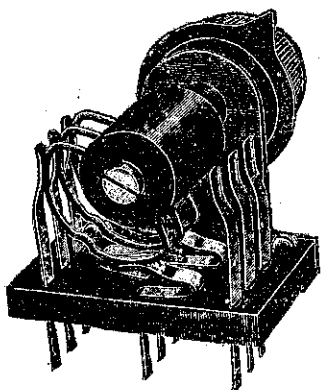
FOR the guidance of those who wish to check their reception of the Australian stations, "Switch" prepares weekly a table showing the average relative strength with which he has obtained reception at 11.30 p.m. during the past week:—

2FC, Sydney	10
2BL, Sydney	9
4QG, Brisbane	7½
3LO, Melbourne	7
3AK, Melbourne	6½
2GB, Sydney	6
2UE, Sydney	5½
3UZ, Melbourne	4½
3DB, Melbourne	4
7ZL, Hobart	3
5CL, Adelaide	2½
6WF, Perth	2
2KY, Sydney	1½

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

record of "The Blue Danube" broadcast by 2YA, Wellington, were so pleased that they 'phoned the studio asking for the name of the waltz and the number of the record! Fact.

"SWITCH" has met lately about half a dozen broadcast-listening novices who were keenly disappointed because their expensive a.c. sets had failed to reach the distant stations which were available during the favourable conditions obtaining on New Year's Eve. "Switch" inspected some of the installations and found that the aerials were low and short, and the lead-ins zig-zagged to chimneys or housetops. The greatest factor in obtaining good long-



UTILITY—British-made

WEARITE and UTILITY Anti - Capacity Rotary Switches

Rotary or Lever Types

Double and Triple Pole Double Throw.
As used by all leading English Manufacturers for Change-over Switches.

Ideal for changing from Radio to Gramophone

No Self Capacity, no Loss.

WEARITE:—2 way, 5/6; 3 way, 6/-.

UTILITY:—2 way, 5/6; 3 way, 6/6

F. J. W. FEAR & CO.,
63 WILLIS STREET, WELLINGTON.

English People Are Unmusical

THAT England is not a musical country has often been brought against her as a serious reproach. This is not really just, and is largely due to a want of historical perception on the part of somewhat hasty critics. It is true that for the 200 years extending from about 1675, we went through a kind of musical eclipse—and that just at the time when Germany was rising to her finest heights in musical art by the works of Bach, Handel, Haydn, Mozart, Beethoven, Schubert, and others. But, just as winter does not characterise the whole year, so the winter of music in England should not be taken as representative of the national mind.

Certainly this charge of being unmusical was largely contributed to by the attitude of English people themselves. It is characteristic of us to disparage in the realm of art—particularly in music—whatever is of home-growth, and to welcome what is foreign. The preference accorded to foreign music began in the latter part of the reign of Charles I. It was commented upon by Henry Lawes in 1653, thus:—"This present generation is so sated with what's native, that nothing takes their ear but what's sung in a language which, commonly, they understand as little as they do the music."

This exaltation of what was French or Italian grew into a prevailing fashion in Charles the Second's reign; and the introduction of foreign singers, fiddlers and dancers, tended largely to throw English artists, as well as composers, into the shade, for generations. In London, in the latter part of the 19th century, we read that the sign "No Englishman need apply" was written up on the doors of London concert halls, while in 1874, the Irishman Balfe, having written an opera based on Sir Walter Scott's novel "The Talisman," had to have it translated into Italian in order to make it a success in London. It was called "Il Taïsmano," and the cast included Mr. Campbell, who had to call himself "Signor Campobello," and Mr. Green, who was billed as "Signor Brocolini."

THE music of England, however, dates back to early times, and reached a high state of development at an epoch when Continental Europe had scarcely emerged from the Dark Ages. We find historical glimpses of this in the music of the early

is an oft-made but nevertheless unjust accusation—one probably based on the comparative lack of prominence of English music composers. In the following article, a synopsis of a talk given recently by Mrs. Daisy Basham, from 2YA, the statement is severely criticised. "Preference for foreign singers, fiddlers and dancers, grew into a fashion. English artists and composers were thrown into the shade for generations," she asserts.

Bards, who flourished in very remote times. In Wales, every free man carried his harp, and to be seen without it meant disgrace. It was in the disguise of a harper, tradition says, that King Alfred penetrated the camp of the hostile Danes, and learned their strength and their plans. At a later date, we find King Canute improvising a song, inspired by the sunset and the distant vespers at Ely.

MANY of the old "rounds" and "catches" (so-called because one group had to "catch" the tune from another group) date back into the Middle Ages. Such was "Turn Again Whittington," first sung (with other words) in 1453.

England was well advanced in counterpoint long before the beginning of the first Flemish

school. The early English school of counterpoint found its worthiest expression in the works of John Dunstable, who lived in the first half of the 15th century. It has been said that he invented counterpoint, but that art was probably of gradual growth, and due to the work of many men. Dunstable wrote a fairly large number of compositions, and in the British Museum is an enigma (riddle) canon by him, which has not yet been deciphered. Such mathematical music, in which the parts fitted forward or backward, or in more complicated ways, gradually gave way to the madrigals or part-songs, written in contra-puntal style, with melody supporting melody. These, in turn, were followed by the simpler ballads and carols—melody supported by harmony.

HARMONY in singing was customary in Britain long before it was so on the Continent. At the close of the 17th Century, Archdeacon Giraldus writes thus:—"The Britons do not sing their tunes in unison, like the inhabitants of other countries, but in different parts. So that when a company of singers meets to sing, as is usual in this country, as many different parts are heard as there are singers . . . In the northern parts of Britain, and on the borders of Yorkshire, the inhabitants make use of a similar kind of symphonious harmony in singing, but with only 2 varieties of tune and voice—the one murmuring the under part, the other singing the upper, in a manner equally soft and pleasing."

We have but to look in Chaucer's "Canterbury Tales" to see that the knowledge of music, and the love of song, pervaded all classes. We learn that country squires, in the 14th century, could pass the day in singing or in playing the flute, and that the most attractive accompaniment in a young lady was to be able to sing well, and that it afforded the best chance of her obtaining an eligible husband! Also that the cultivation of music extended to all classes. Knights, as they rode to tourney, sang ballads; indeed it was part of the training of a perfect knight to be a musician. No banquet was complete without music.

ERASMUS, speaking of the English in the reign of Henry VIII, said that they challenged (Concluded on page 17.)

Down to the Sea in Ships

Away to the
Magic of
Tropical Nights
with 3YA

Wednesday 21

tune in to
CHRISTCHURCH

and
away

with the old
Wind-
jammers





Questions and Answers



"AUDIO" (Eketahuna): Where can I obtain a circuit and lay-out diagram of a super het, shortwave set?

A.: "Radio News," October, 1930, and in addition will probably be published in the 1931 "Guide."

2. Could the r.f. detector, and audio stages of a receiver, be built and the super het, shortwave adapter after ward added to it, having all the components on one baseboard and panel?

A.: Yes, if room were allowed for it.

3. Would all the tuning condensers of the broadcast action be needed if a C.A. set was used to build a super het. set?

A.: Probably, yes.

4. Can a differential condenser be used to control reaction in the short-wave set described in the "Guide"?—Yes.

A.H.M. (Timaru): I have two variable condensers and wish to know the capacity of each.

A.: That composed of 14 plates would be of capacity .00025 to .0008 mfd. The other would be of .00015 to .0002 mfd.

2. The condenser I need is either a .00035 or a .0005 mfd. Could I alter the ones I have to the required capacity?

A.: No, but the 14 plate one would be O.K.

"HAMMARLUND" (Taihape): How many volts "C" battery does an Osram P625A require at 135 volts "B"?—10-12.

2. Is the 66R Blue Spot loudspeaker unit an efficient one?

A.: Yes, we have tested it and found it excellent.

3. Are my 15/6 transformers good ones?—Yes.

4. Is an output filter necessary when using the speaker 25 feet from the set?

A.: It is safer; but not essential.

5. I would like to make my set a little stronger on the weaker stations.

A.: Use a stage of screen-grid radio frequency. An article concerning this will be published shortly.

"ALUTA" (Dunedin) I have an American five-valve battery set using five D.V. 5-valves. What valves do you recommend to replace the above?

A.: 201A's or 221's with a B605 in the last stage. This should be suitably biased. As no provision is made for this in the set you are using, you will have to make the necessary alterations.

L.B. (Christchurch). When wiring a house for loudspeakers, using bell wire, should the wires be twisted or should they run parallel?

A.: It is immaterial—parallel for economy.

"CHOKE" (Gisborne). What type of reaction control do you recommend with a four-valve broadcast set using one stage screen-grid radio frequency?

A.: The rotating tickler method is quite suitable, but if an efficient variable resistance is obtained, control is slightly better. It is necessary that the resistance be a good one, though.

2. What does the value of the variable resistance depend on?

A.: The operating plate volley of the detector, the plate current, and the "B" voltage.

3. Where could I obtain a circuit for a two-valve r.f. amplifier employing ordinary valves?



ROBERT MCKNIGHT,
whose concertina items will be heard
from 1YA this week.

A.: We would advise you to wait for the articles on the 1931 B.D. to be published shortly. Although the r.f. stages are screen-grid you could use the lay-out, and employ ordinary valves.

4. What is the best method of handling the volume? A power-valve in the last audio stage or two matched valves in parallel?

A.: The power-valve.

A.F. (Dunedin): I have a five-valve commercial set, and I notice that the valves after twelve months' use are becoming dull. Could my valve combination be improved upon?

A.: You mention an A605 in the second audio stage. Should this not be B605? If this is the valve you mean it should be suitably biased. Otherwise the valves are quite suitable.

"VOLUME" (Gisborne): Lately I have noticed a decrease in volume from the YA stations, but I find that distant stations are easily tuned in. In fact, the other evening I received WGY far louder than Wellington.

A.: We are afraid we cannot help you. You seem to have tested everything likely to be at fault. It seems curious that you should receive distant stations so well, and the YA's with reduced volume.

D.T. (Oamaru): Will a Leclanche sal-ammoniac battery charge an accumulator?

A.: No, use Daniell cells.

2. Will I get better results with my B.D. set using 135 volts than with 90?

A.: Yes, but do not add a new 45-volt "B" battery to two that have already been in use for some time.

IN last week's issue a correspondent sent us an inquiry concerning all-electric d.c. sets. At the time we knew of no agents for these, but since then two correspondents have written in. One has an Attwater-Kent D.C. 7-valve combination, which is quite satisfactory, and the other a "Silvertone" receiver, the agent for which is S. E. Moe, Civic Buildings, Auckland.

"SCREEN-GRID" (Ngaio): Is the enclosed circuit correct for two stages of radio-frequency using the original Loftin-White amplifier?—Yes.

2. Is it necessary to have separate condensers with couplers or will a triple variable condenser do?

A.: The latter will do if the spindle is unaltered to the front panel.

"PUZZLED" (Auckland): I have an all-electric receiver. Distance reception has been splendid and the

N.Z.'S OWN RADIO BOOKSHOP

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NEW ARRIVALS

At Last We Have It.—"Wireless, the Modern Magic Carpet," by Ralph Stranger. 4/9 posted. Simple language anyone can follow.

"Trouble Shooter's Manual," by John F. Rider. No dealer should miss this. 15/9.

"Mathematics of Radio," by John F. Rider. No dealer should miss this. 10/6.

"Radio Operating Questions and Answers," by Nilson and Hornung. 14/-.

"Radio Citizens' Call Book." December, 1930. 2/9.

"Radio Amateur Handbook" (Handy's), 7th edition. In enormous demand. 5/3.

"The All-Electric Receiver," A "Listener In" Handbook, by VK-3GT. 3/6.

"Modern Sets, 1931." Includes Loftin-White Amplifier, Special S.W. Sets and many others. 1/9.

"Handy's Handbook," 7th edition. 1/3 posted.

"Theory of Radio Communication," by Filgate, 12/-.

"Principles of Radio Communication," by Morecroft, 4/6.

"Direction Finding," by Keen, 27/-.

"Radio Data Charts," by Beatty, 7/9.

"Seeing by Wireless" (Television), by Ralph Stranger, 1/6.

"Collins' Wireless Diary, 1931," 4/- posted (Amateurs and Broadcasters—150 pages useful information).

"Elements of Radio Communication," by Morecroft, 19/-.

"Thermionic Vacuum Tube," by Van der Bijl, 26/-.

"Radio Receiving Tubes," by Moyer and Wostrel, 14/-.

"How Radio Receivers Work," by Roberts, 8/-.

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64 Courtenay Place, Wellington.

CORRESPONDENTS 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.

The secret of successful radio is getting what your set wants. In the country that is not always possible, and you use SUBSTITUTES or OLD ACCESSORIES. If you do this YOU ARE UNFAIR to your set. We can supply EXACTLY what you want, and you PAY NO MORE than if you walk into a city dealer and buy over the counter.

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— THE —

C.A.S.

(Country Accessories Supply)

39 VENTNOR STREET, SEATOUN, WELLINGTON.

valves and voltages test out O.K. Why is it possible to take a spark off the aerial and earth terminals or any other part of the set with the earth wire which is attached to the usual water pipe? This is when the power plug is disconnected from the mains.

A.: Owing to condenser discharge you may get such a spark, but only once. Your best plan would be to mention this phenomenon to the agent.

C.T.D. (Feilding): Why is the plug in coil of the differential one to be wound with 30 s.w.g. wire and the fixed with 24?

A.: On this valve base there have to be more turns. Consequently the wire should be finer.

2.: Would d.c.c. wire be as efficient as d.s.c.?—Yes.

3.: Which would be the better tuning condenser, a.00035 or .0005?

A.: Possibly the .00035, though the other would be quite O.K.

4.: What diameter is the plug-in coil?

A.: The same as that of the valve base.

J. F. (Westport).—I am about a mile from a power station, and very close to high-tension lines. Interference is very bad, but immediately the power cuts off reception is clear.

A.: You should contact the engineer in charge of the powerhouse. The noise could be stopped by shunting two mfd. condensers across the brushers and to earth. We had more to say on this topic in our issue of December 13, 1929.

2. I have a counterpoise, and have connected it with the ground terminal, which does not appear to make any difference.

A.: Have you removed the earth, for the counterpoise alone must be on the ground terminal. We cannot understand how, if correctly adjusted, there is no effect whatever.

E. J. (Timaru).—How many turns of 26-gauge wire must I use on valve base coils to cover the short-wave bands with .00125 condenser?

A.: 26-gauge wire is not practicable as the coil loses efficiency through its incorrect shape factor. You should have used 30-gauge.

JAKA (Wellington).—Which would be the more efficient set, the Differential Two or "R. the W. Two"?

A.: Probably the Differential Two.

PERPLEXED (Whangarei).—I wish to break into amateur transmitting. so can I make or have made an a.c. generator to supply the current?

A.: Yes, we should advise you to write to Johns, Ltd., Auckland, who would be able to put you on to the track of a suitable generator. It would not be a practicable proposition to make one yourself.

AUSSIE (Wanganui).—How can I erect a counterpoise aerial under an umbrella aerial?

A.: Run the wires out immediately under the true aerial. A better aerial to combat interference would be an ordinary L or T one run at right angles to the source of the noise. You could then run the counterpoise underneath this in the orthodox fashion.

2. How much wire would be required for the counterpoise earth?

A.: As much as for the umbrella aerial.

W. C. (Raurue).—Thanks for sending along the coil particulars, but we regret we cannot give them any publicity. Number 2 is probably the easier to manipulate, but for short-wave work a condenser control regeneration would be the better.

W. H. S. (Wellington).—Would a half wave metal rectifier be suitable for an A eliminator, and could the output voltage be regulated by having a tapped input or a resistance in the output?

A.: The rectifier to which you refer is probably a full wave one, and will be quite suitable for your purpose. A resistance in the output would probably be the best method for breaking down the voltage.

2. Would the A eliminator described in the 1930 "Guide" be more satisfactory?

A.: There is little difference.

3. Will 16 volts be too much for an electrolytic condenser maximum voltage 12?

A.: Probably yes, although if these condensers break down they are self-healing.

4. Which would be the better plan in winding a transformer, to put half the secondary and half the primary on each leg, or put the primary on one and secondary on the other?

A.: The former is better, though the best plan is to wind the transformers, such as described in the "Guide," that is, all the windings on one leg.

5. Which is the best method of output B voltages—tapped potentiometer or separate resistances?—The latter.

6. Which is the most satisfactory of obtaining grid bias battery, voltage drop, or separate eliminator?

A.: Theoretically the separate eliminator, but the voltage drop is widely used and perfectly satisfactory.

7. Will the eliminator work with all the windings on one transformer?

A.: It depends upon the wattage. Find out the total number of watts consumed by the secondary and then allowing about 90 per cent. efficiency, calculate the number of watts to be taken by the primary. Look up the table in the "Guide" and see if the transformer will carry the load.

D. S. (Market Cross): Your idea for a motor and a generator is quite a good one. The 300 volts and 120 mamps provided will be quite satisfactory for the amplifier we mention, with the exception that P625 valves should be used in the last stage. We will send you along a diagram of the amplifier within the next two or three days.

E. W. P. (Invercargill): Are valves drawing more filament current when the rheostats are down or up?

A.: The more resistance there is in the circuit the less current the valves are drawing.

2. Why is there more noise in the speaker when using a B eliminator than when using batteries?

A.: Noise should not be noticeable in a properly designed eliminator, though they are rarely quite as silent as batteries.

3. Is a 409 a better valve for the first audio than 415?—Yes.

4. I put a screen grid valve in the first stage, but results were not as good as using a .201A.

A.: Did you design the circuit especially for the screen-grid valve? If you just put it in an ordinary socket you would not get the pick-up you should do.

Useful Tips

If you think that an anti-motor boating device would improve your set, do not be discouraged if there does not appear to be room inside the set for it, as the wiring can in nearly all cases be done externally just as well as internally.

COVERED wire which is made to pass through small holes in a screening box should not be relied upon to give sufficient insulation itself, but should be provided with a wrapping of insulated tape.

It is a good plan to include a flash-lamp bulb in series with the condenser and loudspeaker of an output filter circuit, so that in the event of a condenser breakdown the small lamp will act as a fuse.

If one of your telephone earpieces breaks down remember that a wire across its two terminals will probably "restore" the phones temporarily, and enable you to listen to the conclusion of the programme on the one earpiece.

5. What is the average life of a power valve?

A.: 1000-1500 hours.

6. Do "B" batteries make circuit when the filament current is switched off?—No.

WHEN readjusting a semi-permanent crystal detector, remember that the contact consists of two separate crystals, and these should not be ground together, but should be separated, and turned only when the two faces are not in contact.

AS it is difficult to make perfectly clean cuts through brass rods without spoiling the thread, a useful method is to affix one or two nuts to the rod before cutting it, so that when these are unscrewed the thread displacement is restored.

If your cone loudspeaker is enclosed in a box and reception is a trifle "boomy," try the effect of removing the back of the case, when, if results are improved, an open-work back is indicated.

WHEN an aerial must of necessity be supported against a wall, it should not be stapled to this, but should be fixed on "stand-off" insulators, so that there is plenty of air spacing between the wire and the wall.

If you use a 6-volt accumulator consisting of three separate 2-volt sections, keep the cells properly connected in place before handing it in at the charging station, as if the connecting bars are removed they may be re placed wrongly.

RADIO DIRECTORY

What to Buy and Where

CITIES

ACE and HAMMARLUND SETS,	Johns, Ltd.
WESTINGHOUSE Rectifiers	Chancery Street, Auckland.
BROWNING DRAKE SPECIAL-ISTS	F. J. W. Fear & Co. 63 Willis Street, Wellington.
BURGESS RADIO BATTERIES,	All Radio Dealers.
KING RADIO RECEIVERS	F. J. W. Fear & Co., 63 Willis Street, Wellington.
LOFTIN-WHITE AMPLIFIERS	Stewart Hardware Ltd., Courtenay Place, Wellington.
MAJESTIC RADIO RECEIVERS	Kirkcaldie & Stains, Wellington Agents, Lambton Quay.
MULLARD VALVES	All Radio Dealers.
PILOT 1930 PARTS—PILOT SUPER WASP KITS, GILFILLAN, KELLOGG and AT-WATER KENT SETS	Harrington's, N.Z., Ltd., 138-140 Queen St., Auckland. 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

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

Notes and News from the North

(By "Call-Up.")

DURING the holiday period 1YA provided some excellent programmes, and their extended service was much appreciated by listeners. The many extra hours of broadcasting, and the absence of a number of regular speakers and artists who were away on holiday placed much extra work and responsibility on the station staff. They deserve the thanks of listeners for whose entertainment they worked hard while others were holidaying.

A NUMBER of new artists are to be heard from 1YA toward the end of this month, these including two new vocal trios and a new instrumental quartet. The Smithson Trio, which will be heard for the first time on January 23, is of special interest in that it consists of three members of the same family, father, son and daughter. A new instrumental quartet will play on January 27, led by Mr. David Whisker, the well-known Auckland flautist. On January 29 the Royal Trio will render vocal and instrumental extracts from musical comedy pieces.

MR. CULFORD BELL, station announcer at 1YA, will leave for his annual holiday on January 26, and during his fortnight's absence Mr. Len Barnes, the station director, will deputise for him at the microphone.

HOW many northern listeners know what a balalaika is? Not very many, one supposes, but after January 21 it should be quite common knowledge. On that evening Simon Philippoff, who has already been heard from southern stations, will render items from 1YA on this Russian instrument—so uncommon to this part of the world.

STATION 1YA rebroadcast 3YA's relay of Mr. Guy Menzies' speech from Hokitika on Wednesday night last. During the earlier part of the evening, while station officials were in touch with the Christchurch station, the southern programme was coming in very clearly, but when they switched over for the rebroadcast conditions were not so good and there was a considerable amount of static. However, the few words Mr. Menzies had to say were heard quite distinctly. Previous to his talk 1YA was rebroadcasting the gramophone items from 3YA for over half an hour. During these items a disgruntled listener 'phoned the studio. "This is awful," he said; "there's so much static coming through. Why I can get 3YA clearer if I pick it up direct myself." He seemed rather surprised when the 1YA official politely explained that the station had no jurisdiction over static, and suggested that if what the listener said were true, the best thing for him to do was to tune-in to 3YA direct!

MISS BUNTY STEUART, a Scottish contralto, is to make her first appearance from 1YA on January 31. Miss Steuart has had considerable professional experience and has sung on numerous occasions from radio stations in Australia, although this is her first microphone appearance in New Zealand.

Dynamic Speaker Faults

Some Common Sources

IN many ways the dynamic cone speaker is an extremely rugged mechanism. The field magnetism, since it is produced by the flow of an electric current, never weakens so long as the current flow is maintained.

The dynamic speaker has definitely improved tone quality. But its wide frequency range of tone coupled with the method of construction sometimes accentuate faults that would be unimportant in a less efficient unit. On the very low notes, for instance, it may actually have a motion of as much as a quarter of an inch—many times the possible motion of even the best magnetic speaker. This imposes a severe strain on the diaphragm and on the mechanism holding it in place.

The accompanying illustration shows where trouble can occur and where to look if ever the speaker begins to produce queer, rattling noises or scraping sounds, or the volume falls off appreciably.

When the dynamic speaker is not in use the diaphragm is under no strain. The front edge is maintained in a central position by a thin, soft leather ring, the outer edge of which is clamped or otherwise fastened to the metal frame, the inner edge being cemented to the paper cone.

The cement is not infallible. When subjected to a severe strain, such as a crash of static, it may break loose at some point. If this occurs on the edge of the paper diaphragm the loose edge of the paper will vibrate against the leather and produce a rattling

sound that usually will be most pronounced on one particular tone frequency. The leather itself may become loose at its outer edge and produce a similar but less evident noise.

Many dynamic cones are made from a single piece of paper with one cemented seam running from the apex to the edge of the cone. Occasionally this seam gives trouble. The cement gives way at some point and the loose edges of the paper rattle together. Looseness also may develop in the cone support arms.

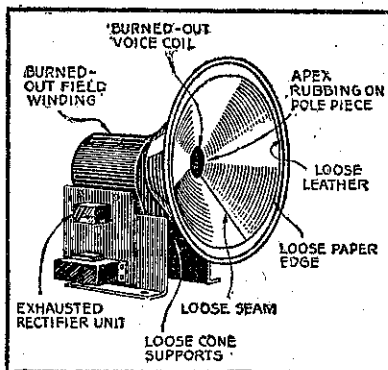
Muffled and distorted music and speech, if it is not due to some defect in the set itself, often is caused

by the ring at the apex of the cone rubbing on the pole piece. The clearance at this point is very small, in some cases not over five thousandths of an inch. Testing for this trouble is easy. Take a piece of writing paper and see if it can be slipped in the crack between the pole piece and the centre ring of the cone. If so, move it all the way

around the circle without binding at any point. If it can be so moved the cone is not in trouble at this point.

Extremely weak reproduction on A.C. type dynamic units may be due to an exhausted rectifier unit.

A burned-out voice coil or field winding would put the speaker out of commission at once, but such troubles are so rare that they need not be considered.



Human Electricity

Current Photographed

IN research work intended to demonstrate that the human nervous system is an intricate electrical network with the brain as its semi-automatic switchboard, two scientists in Munich, Germany, claim to have photographed electric current issuing from a man's body.

The current waves were amplified to a point at which pictures could be taken. The photos, it is reported, showed

sparks radiating from the fingers of an outstretched hand.

If the skin is dry, the experimenters declare, even the slightest motion of the fingers will produce sparks that can be "snapped." The pictures further showed that the oscillations increase when the fist is closed and opened quickly.

Useful Tips

IF your moving-coil speaker is one incorporating a permanent magnet, do not forget that if you place your watch near it it may become magnetised, with disastrous results to time-keeping.

IF you are troubled with a loud-speaker locking nut loosening, and so setting up chatter, remember it can be permanently secured after it is tightened by a little adhesive run into it, or even by a spot of candle grease.

Electrical Interference

Damages Awarded

WHAT is believed to be the first case in America where a public service has been found liable for interference with radio reception was recently concluded. The State Supreme Court upheld a circuit court jury in awarding 2000 dollars damages to an applicant in Milwaukee.

The claim for damages was filed against the Milwaukee Electric Company by the applicant on the grounds that a high-tension line running near his home created such an electrical disturbance that broadcast reception was completely spoilt.

The application was in the nature of a test case, and a number of power companies are now anxiously inquiring into the possibility of a crop of further actions of the same kind being brought

Radio in Hedjaz

Modern Eastern Ruler

THE King of Hedjaz and Nejd has recently concluded negotiations with the Marconi Company for the erection of fifteen radio stations throughout the joint kingdom.

These will link up every important centre, and four complete transmitting and receiving installations fitted in lorries are also to be supplied as mobile radio telegraph stations. These will enable the King, Ibn Saud, to keep in constant touch with his two capitals, Mecca and Riyadh, during his desert journeys.

In Mecca and at Riyadh, 400 miles distant, powerful telephone and tele-



King of Hedjaz.

graph transmitters and modern receivers will be installed, and the King will be able to talk between his two palaces by means of special microphones.

A British engineer will supervise the installation outside Mecca, and to provide for maintenance afterward King Ibn Saud has sent four of his subjects to England for instruction on the technical side of radio.

English People are Unmusical

4YA to Broadcast Thrilling Drama

An Effectively Answered Challenge

Life in the Amazon Wilds

(Continued from page 13.)

the prerogative of having the handsomest women, of keeping the best table, and of being the most accomplished in music, of any people."

In the reign of Elizabeth, music was in universal estimation. Tinklers sang catches; milkmaids sang ballads; caddgers whistled; each trade, and even the beggars had their special songs. Henry VIII composed music, and Queen Elizabeth was a clever keyboard performer—one of many fine performers of her realm. In the drawing-rooms of the great houses hung the bass-viol, for the amusement of waiting visitors, while the lute, cittern, and virginals, for the amusement of waiting customers, were the necessary furniture of a barber's shop. Sir Francis Drake, in his little ship, managed to find room for musicians; for it is recorded by a Spanish prisoner of his that he "dined and supped to the music of viols."

In Devonshire, every farmhouse had an instrument called the thrums, hung in the common hall. It consisted of a board, with fret and strings, and was taken up in the evening by one of the farmer's sons or daughters, or by one of the farm labourers, who struck cords on it while singing a ballad. John Dowland, the English lute-player and madrigal-composer, was long in the employ of the King of Denmark, and in an age of very little music-printing, works of his were published, in France, Holland and Germany. In many courts and cities of the Continent, English musicians and actors were employed.

Nobody in those days thought of saying that England was not a musical country.

It is always assumed that during the years of the Commonwealth, "The voice of music was silenced in England, and that music of every kind became an object of loathing and contempt."

So, at least, says Ernest Ford's "History of Music in England," published in 1912. Certainly, the Puritans destroyed cathedral organs, disbanded the singing men and boys, and burnt much of the anthem and service music. Yet they did not hate music itself, nor did they all hate even music in church. What they did dislike was elaborate choir-music, instrumental music in church, and professional church musicians; and even to-day many of their descendants maintain the same position.

Traditional Folk Songs

THE folk-song movement of the present day has sufficiently rebutted the accusation that as a people we are unmusical. These folk-songs were at first preserved by tradition, and, when the decline set in, they tended to become forgotten and lost. Fortunately, large numbers have now been recovered and written down, before it was too late.

There was, for a time, a little danger of a sort of folk-song and folk-dance worship. Not everything that the "folk" think or say is gospel; and not all that they sing is as good as Schu-

bert or Mozart. But at its best, British folk-music is really great. According to a recognised authority, Mr. Percy Scholes, no composer of the past or present has made anything more lovely, within tiny limits, than the more perfect of the British folk-tunes.

The quantity still preserved is enormous. In England alone 5000 have been collected; and who knows how many more were lost before the collecting hobby came into vogue? And how many more can Scotland, Ireland and Wales, all of them singing countries, add to that number?

These songs are tender lyrics, long-winded narrative ballads, and rhythmic labour-songs. There are sea-chanties of the sailing-ship days; there are hunting-songs and drinking-songs; soldier-songs and poacher-songs; Christmas carols and wassails.

"Whence Came Our Tunes?"

HOW did these tunes come into existence? Some, no doubt, were "composed" by the village musical genius, and then handed down the generations, to suffer some change, small or great, from the hand, or rather mouth, of almost everyone into whose possession they came.

Most, perhaps, simply grew up—came to existence as mere germs, and then evolved and developed. Children to-day, quite little children, often unconsciously hum tiny tunes of three or four notes. And so, in an early age of civilisation, may have come into existence phrases instinctively "composed," phrases which may have haunted the memory of their originator, passed into the ears of his fellows, and started on a long period of evolution. They were lengthened into actual "tunes," fitted with words, refitted with fresh words, elaborated, re-simplified, changed in all manner of ways as they spread about the country and came down the centuries.

So, the tune we may hear in a Yorkshire bar-parlour to-day may have for its ancestor some wassail-cry that came over with the Danes; and the old woman sitting at the door of a Kentish farm-house, and thinking of her son away at the other side of the world, may be crooning a tune that, in an earlier form, cheered Boadicea in her moments of discouragement.

"Summer is a' Cumen In"

OF the evolution of such songs the following example is of outstanding interest. It is described by authorities as "An English musical miracle" and as "The most interesting musical manuscript in the world."

It is called "Summer is a' Cumen In," and is, indeed, the only piece of choral music earlier than the fifteenth century that could be performed in a modern concert room without a demand for "money back." It was written about 1226 by a cheerful monk called "John of Fornsete," belonging to Reading Abbey. The joyous words of

ON Friday evening, January 23, 4YA will present an interesting drama entitled "Up-Stream." The libretto, the work of Clifford Bax, was written in 1922. The scene of the story is near the source of the Amazon River, in South America; the time 1876. The play concerns incidents in the lives of the pioneers of that part of the country.

The principal characters are English, with the exception of two, a Brazilian engineer and a Spanish-American lady. They are headed with George Gillespie, chief engineer of an expedition for the opening up of Bolivia. Others are Henry Hooker, aged 26, a small, insignificant, and irresolute man, one of Gillespie's engineers; Jonathan Wise, a doctor; Rudolf Gottman, clerk to Gillespie; Arthur Wyatt, aged 26, a naturalist; Garcia Soriana, aged 52, the Brazilian engineer; and Gilda, aged 20, ward of Gillespie, a Spanish-American.

Gillespie is accused by Wyatt of sacrificing his best friend in the jungle, through failing to provide him with supplies when these were urgently

required. Wyatt's friend, Jim, was sent on a message up the Amazon, and Gillespie was to follow, but, according to Wyatt, purposely failed to do so. The attitude Wyatt takes with regard to his treatment of Gillespie is very interesting, and he ends up by resigning, and certifies that he is leaving immediately to report Gillespie's treatment of Jim to the company directors. Wyatt's story would cost Gillespie his position and would also imperil him in many other directions, including the future of his ward, Gilda. He therefore takes drastic steps to stop Wyatt from leaving the company, and he entices Gilda to use all the power she possesses to this end. This section of the play is most dramatic, but perhaps it would spoil the climax to divulge the outcome of the difficult situation. The drama contains many exciting incidents of jungle life, and is a real thriller.

Major F. H. Lampen, who has had wide experience before the microphone and as producer for the Dunedin Operatic and Dramatic Society, will produce the drama.

"Summer is a' Cumen In" suggest that it was composed for a merry May meeting in a castle grounds, when the barons were all-powerful and a musical monk had to do as he was told.

In any case, John of Fornsete immortalised himself by writing a dance measure in the form of a canon or round for four tenor voices. Now, the curious thing is that the canon, a most ingeniously artificial form, occurs nowhere else in musical records for over two centuries to come; and to anticipate one's artistic descendants by two centuries is surely a feat unparalleled.

But this is not all! Our friend also anticipated a practice of Purcell and of Bach, that of composing a tune over a ground bass—a little phrase repeated over and over again—but John of Fornsete "went one better" than these two, for his ground bass was a double one, for two bass voices, also singing in canon! So here we have a remarkable piece of music, to be performed by four tenor monks singing in canon, and by two bass monks singing a ground, also in canon!

Surely this was trolled out on many a festive occasion in the refectory! We can imagine the six jolly monks at it, and their fellows joining in until the vaulted ceiling rang with the sound. A second set of words, religious words, in Latin, is provided; but these fit clumsily, and seem to have been an after-thought. Perhaps they served as an alternative when the abbot's form was seen approaching!

This manuscript is now in the British Museum. When it was written Henry III was King of England, and the signing of Magna Charta was but a few years old in the memory of living men!

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Up-to-date Marine Equipment

For New Liner

NOW fitting out on the Clyde, the mammoth new Canadian Pacific liner, Empress of Britain, will carry one of the latest Marconi short-wave wireless telephone installations when she enters the Atlantic service shortly.

The equipment will allow passengers to communicate with telephone subscribers in Europe, Canada, the United States, and Australia. The input power to the transmitter will be 20 kilowatts, and the installation will be similar to that used by Marconi recently when he spoke from his yacht in the Mediterranean to nearly all parts of the world.

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FEATURE PEEPS

... at ...

FUTURE PROGRAMMES

SUNDAY

At 1YA

THE church service will be relayed from the Pitt Street Methodist Church, the preacher being the Rev. C. H. Laws, B.A., B.D., and the organist and choirmaster, Professor W. A. Moor. This will be followed by a relay of the Municipal Band concert from Albert Park, the band being under the conductorship of Captain George Buckley.

2YA Notes

THERE will be a relay from the Trinity Methodist Church, Wellington South, where the service will be conducted by the Rev. T. W. Vealie, the choirmaster being Mr. W. McLellan and the organist Miss Lillian Thawley, L.A.B. After the church broadcast, a studio concert will be given by the band of the Wellington Division of the Royal Naval Volunteer Reserve, by permission of the commanding officer.

From 3YA

THE service in the Holy Trinity Church, Avonside, will be relayed. The preacher will be the Rev. H. E. K. Fry, the organist and choirmaster, Mr. Arthur Lilly, A.R.C.O. There will be the usual after-church concert from the studio.

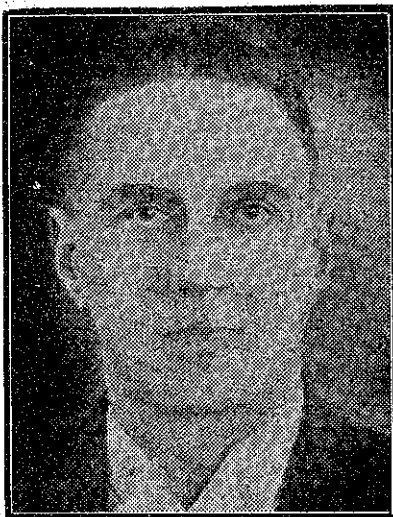
Topics from 4YA

THE Rev. E. S. Tuckwell will be the preacher at Hanover Street Baptist Church, Dunedin, when the service will be broadcast by 4YA. A relay of 3YA's after-church concert will follow.

MONDAY

Wellington Broadcast

Mr. J. F. Montague will present R. L. Stevenson's "Treasure Island." The cast includes some of Welling-



F. C. COOPER, a well-known 4YA bass, whose items are always appreciated by listeners. —Photo, Artlite.

ton's leading artists, and, under the skilful direction of Mr. Montague, the radio presentation should prove most successful.

From 3YA

MR. E. E. WILTSHIRE, president of the Linwood Public Library, will

broadcast his monthly talk on books. The Woolston Band, which is to take part in the annual contest next month, will provide the concert programme. Assisting vocalists will include Miss Lily Kinsella, well known as an elocutionist, but who is making her first radio appearance as a mezzo-contralto singer, and Mr. G. H. Ponder (bass), who is well known in Australia.

Dunedin Features

THE Novelty Syncopators, playing popular melodies, will be featured on to-night's programme.

TUESDAY

Auckland Notes

THE vocalists for the evening will be Madame Mary Towsey and Mr. John Bree, who will sing many solos and duets. The Orchestral Octet, under the direction of Mr. Harold Baxter, will provide the instrumental portion of the programme and will include in their items the suite, "As You Like It," by Roger Quilter.

Notes from 2YA

THE station will be on the air at noon to broadcast result of the Wellington Racing Club's summer meeting, being held at Trentham.

The return of the Right Hon. G. W. Forbes and his party from the Imperial Conference will be marked by a public reception in the Wellington Town Hall on Tuesday, January 20. The speakers will be the Right Hon. J. G. Coates, Mr. H. E. Holland, and Mr. G. A. Troup (Mayor of Wellington), with Mr. Forbes replying. Musical items will be given in the intervals between the speeches. The whole of the proceedings will be broadcast.

From 3YA

THE civic reception to be tendered to the Rt. Hon. G. W. Forbes, Prime Minister of New Zealand, which will be broadcast from 2YA this evening, will be relayed by 3YA.

Dunedin Notes

A "BURNS NIGHT" programme will be presented by the Dunedin Highland Pipe Band under Pipe-Major McMillan.

WEDNESDAY

Auckland Items

THE Auckland Comedy Players will this evening be heard in two scenes from "The School for Scandal" and "A Lot for Your

Don't Miss These

"Treasure Island"

2YA, Monday.

Trentham Race Meeting

2YA, Tuesday.

Burns Night

4YA, Tuesday.

Auckland Comedy Players

1YA, Wednesday.

Seas, Ships and Sailormen

3YA, Wednesday.

Anniversary Celebration

2YA, Thursday.

The White Coons

2YA, Friday.

"Upstream"

4YA, Friday.

Burns Commemoration

From All Stations.
Saturday

Money." Of particular interest on this programme will be the items by Mr. Simon Phillipoff, a brilliant artist on the balalaika. When visiting New Zealand last year Mr. Phillipoff broadcast from the southern stations, and proved a great success. He will be heard in "Liebesfreud," "Waltz C Sharp Minor," and "Shining Moon."

Bert Kingsland's saxophone quartet, a very popular combination, have included some well-known numbers among their items, including "Every Day" and "Dancing Fool." The vocalists for the evening are three of Auckland's most promising singers.



MR. H. C. SOUTH, whose fortnightly lectures on "Books Grave and Gay" are much appreciated by 2YA listeners. —S. P. Andrew, photo.

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CHRISTCHURCH

Items from 3YA

A nautical programme, entitled "Seas, Ships and Sailormen," will be given by the Avon Glee Singers under the direction of Miss Millicent Jennings. During the evening a sea story, "Larry Peg-Leg McGinnes," (from "Eight Bells," by Captain Waters), will be related by Lieutenant-Commander Kersley, R.N.R. Associated also with the Avon Glee Singers will be several well-known 3YA artists.

Dunedin Features

UNDER the title "Eat More Fruit," the virtues of fruit will be discussed by the Home Science Extension Department of Otago University. At 7.15 p.m. there will be a talk on "Handling the Honey Crop." Both talks are under the auspices of the Primary Productions Committee.

In the evening there will be a programme of the classical-operatic type, followed by a dance session.

THURSDAY

"Dinners and Teas"

THE Home Science talks from 1YA, 2YA and 3YA this afternoon will be on "Dinners and Teas."

Features at 1YA

MISS WINIFRED JOHNSON (contralto) and **Mr. Ian M. Grant** (tenor), two new radio artists, both of whom have had wide concert experience, will appear on the programme. The very popular entertainers, **Mr. Elton Black** and **Miss Alice Bennetto**, will be heard again, and instrumental items will be given by the **Orchestral Octet**, under the direction of **Mr. Harold Baxter**.

2YA Topics

FROM noon on, results of the second day of the Wellington Racing Club's summer meeting will be broadcast.

A special programme to mark the anniversary of the founding of Wellington province has been arranged. **Mr. L. M. Assheton Harbord, L.R.A.M.**, and orchestra, will present an entertainment of bright and breezy instrumental numbers suitable for the occasion.



MISS M. KINSELLA,
a charming 3YA mezzo-contralto.
—Steffano Webb, photo.

In the vocal portion he will be assisted by leading 2YA artists. From 10 to 11 p.m. **Mr. Harbord** and his orchestra will supply a programme of dance music, including the latest waltzes and fox-trots.

From 3YA

A CLASSICAL-OPERATIC programme, to be followed at 9.30 by a session of dance music, will be broadcast.

FRIDAY

Auckland Features

A NEW combination, the **Smithson Trio**, will be heard in solos, duets, humorous numbers, and yodeling solos. **Miller's Banjo Quartet** will be heard in some very popular marches and waltzes, while **Master Desmond Casey**, boy soprano, will sing several delightful ballads. **Mr. Robert McKnight**, who has well established himself as a very fine artist on the concertina, will provide some well-known solos. The whole programme will be a particularly fine one and there will be plenty of variety.

SATURDAY

At 1YA

TO-NIGHT the anniversary of the birth of **Robert Burns**, Scotland's national poet, will be celebrated. A special programme has been arranged in commemoration of this great occasion.

The **Auckland and District Highland Pipe Band** has been engaged and will play several numbers dear to the heart of the Scots. Solos will be given by two Scottish singers, **Miss Reta McCullay** and **Mr. A. L. McPherson**, while Scottish humour will be provided by **Sandy Mack**. **Mr. Reg. Morgan** and his orchestra will broadcast several fine instrumental items and the programme will include a lecture-recital by **Mr. Karl Atkinson**, entitled "A Scottish Half-hour." Dance music will continue until 11 p.m.

Wellington Features

THE station 2YA will be on the air from noon to broadcast the results of the events for the third day of the **Wellington Racing Club's** summer meeting. A Scottish



MILLICENT JENNINGS,
a very popular 3YA mezzo-soprano.

Children's Sessions

FROM 2YA.

Monday: Big Brother Jack is conducting the session to-night, and is bringing **Robinson**. **Cousins Paul, Mirian and Lucy** are to entertain, and the **Maori Legend Lady** and **Kipling Lady** also.

Tuesday: Uncle Toby will be with us this evening with a happy band of little cousins, who will tell all about "Little Bo-Peep" and "Boy Blue."

Thursday: Uncle George will be the "Fairy Postman" to-night.

Friday: Uncle Jim, Story Book Man, and Story Book Lady will all be in the studio to-night.

Saturday: To-night Aunt Pera will conduct the session, and we are to have a delightful **A. A. Milne** evening with songs, stories, and recitations. **Cousin Rona** will tell stories of butterflies and birds.

AT 3YA.

Monday, January 19.—Hello—here we are again. Let us all try painting the clouds with sunshine during this year. That is what **Cousin Margot**, **Cousin Gwen** and the **Mystery Man** are going to do anyway—so listen in and see how they do it.

Wednesday.—Uncle John and Cousin Neil holding the Fort of Radioland, while the little cousins who help us are all away on holiday. But they have New Stories for Old, like **Aladdin** and the **Lamp**, and you will love all of them.

Thursday.—Oh! Uncle Frank is happy to-night because he has a group of Scouts and Cubs in the Studio, and the happy time they will have will provide a happier time for you who listen in. So Heigh-ho for five of the clock.

Friday.—"Chuckie" is here again, after holiday-making, and will tell you all the experiences he has had, and a lot that he hasn't had. But you may be sure of some fun in any case.

Saturday.—"Aunt Pat" has a host of little helpers to-night, so everyone will be happy. Listen to **Ailsa** reciting, **Marjory** singing and reciting, and **Clarice** and **George** duetting. Well! there is some fun for you!

American Programme Recordings
from 2YA

PRECEDING the presentation of "Treasure Island" at 2YA on Monday, January 19, will be a sixty-minutes' specially arranged programme composed of a number of recorded items and "turns" selected from American programmes and procured by **Mr. A. R. Harris**, general manager of the **Broadcasting Company**, when on his recent visit to U.S.A.

This programme, as arranged, will give New Zealand listeners an excellent idea of the standard of some of the main features of American broadcast entertainment. The records are "electrical transcriptions," as they are called in America.

Wellington's Programme

THE WHITE COONS, a novelty instrumental combination consisting of banjo, mandolin and guitar, will contribute to 2YA's entertainment this evening.

3YA Notes

MESSRS. D. COSSGROVE and W. Melbourne will give the fortnightly "Radio Service" talk.

To-night listeners will again welcome **Miss Cicely Audibert**. This singer from the professional stage is a very fine mezzo-soprano and in her four songs for this evening she will display some of her versatility. The other artists are well known to the microphone.

Items from Dunedin

THE first half of the programme will savour of the sea. Chanties will be sung by **Mr. O. L. Carden** and chorus, while **Mr. F. C. Cooper** will sing "Shipmates o' Mine" and **Mr. W. Ruffell**, "Fishermen of England." **Miss Isa Duff**, a new radio artist, will be heard in "Kentucky Babe." The second half of the programme will be devoted to the presentation of the British rama, "Up Stream," to be produced by **Major Laupen**.

concert in commemoration of the anniversary of the birth of **Robert Burns**, to be given by the **Wellington Caledonian Society**, under the direction of **Mr. George Stark**, will be relayed from the **Caledonian Hall**.

Christchurch Notes

THREE pipers from the **Gordon Highlanders** and two from the **Black Watch** are members of the **Caledonian Pipe Band** which will contribute to 3YA's Scottish concert. The band plays under the conductorship of **Pipe-Major Gibson**, who will contribute three solos. Other artists on the programme will be **Mrs. Anita Ledsham** and **Mr. James Shaw**, whose songs will be musical versions of poems by **Robert Burns**. In song and story **Jock Lockhart** will broadcast Scottish humour, while humorous recitations will be given by **Mr. H. Instone**.

From 4YA

THERE will be a relay from His Majesty's Theatre of a concert to be given by the **Dunedin Burns Club**. The artists will include **The Idlers' Male Quartet**, **Mrs. Wilfred Andrews**, contralto, of **Wellington**, and **Mr. Arthur MacDonald**, baritone.

Full Programmes for Next

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

Sunday, January 18

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, JANUARY 18.

- 3.0 : Selected gramophone recordings.
 3.30: Literary selection by the announcer.
 6.0 : Children's song service, conducted by "Uncle Bert."
 6.55: Relay of divine service from Pitt Street Methodist Church. Preacher, Rev. C. H. Laws, B.A., B.D. Organist and choirmaster, Professor W. A. Moor.
 8.30: (approx.) Relay of Municipal Band Concert from Albert Park, under conductorship of Mr. George Buckley.
 9.30: (approx.) God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JANUARY 18.

- 3.0 to 4.30: Selected gramophone records.
 6.0 : Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from the Island Bay Baptist Church.
 7.0 : Relay of the Evening Service of the Trinity Methodist Church, Wellington South. Preacher: Rev. T. W. Veale. Choirmaster: Mr. W. McLellan. Organist: Miss Lillian Thawley, L.A.B.
 8.20: (Approx.)—Studio Concert by the Band of the Wellington Division of the Royal Naval Volunteer Reserve (by permission of the Commanding Officer), and 2YA Artists.
 Hymn—Band (Conductor, Petty Officer H. Baker), "Nearer My God to Thee" (Mason); March, "Major and Minor" (Southwell).
 Bass-baritone—Mr. George Neel, (a) "Within These Sacred Bowers" (Mozart); (b) "Tho' Faithless Men" (Halevy).
 Selection—Debroy Somers Band, "Hungarian Medley" (arr. Somers).
 Air varie—Band, "Adeste Fideles" (Round).
 Soprano—Miss Kathleen Ferris, "Villanelle" (del Acqua).
 Waltz—Band, "Woodland Whispers" (Round).
 Contralto—Miss Belle Renaut, (a) "I Will Not Chide" (Schumann); (b) "The Nut Tree" (Schumann).
 Selection—Band, "The Bohemian Girl" (Balfe).
 Weather report and station notices.
 Organ—Marcel Dupre, "Prelude and Fugue in G Major" (Bach).
 Bass-baritone—Mr. George Neel, "I Will Not Grieve" (Schumann).
 March—Band, "Mount Washington" (Southwell).
 Soprano—Miss Kathleen Ferris, "On Mighty Pens" (Haydn).
 Choral—Don Cossacks' Choir, (a) "First Psalm of David" (Trad'l); (b) "God, Hear My Prayer" (Archangelsky).
 Overture—Band, "Golden Cross" (Greenwood).
 Contralto—Miss Belle Renaut, "By the Waters of Babylon" (Dvorak).
 March—Band, "On the Warpath" (Bailey).
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, JANUARY 18.

- 3.0 : Gramophone recital.
 5.30: Children's Song Service by children of Church of England Sunday Schools.
 6.15: Chimes from studio.
 6.30: Musical recordings from studio.
 7.0 : Relay of evening service from Holy Trinity (Anglican) Church, Avon-side. Preacher: Rev. H. E. K. Fry, M.A. Organist and Choirmaster: Mr. Arthur Lilly, A.R.C.O.
 8.15 (approx.): Selection—Classic Symphony Orchestra, "Classical Memories" (arr. Ewing).
 'Cello—W. H. Squire, "Sicilienne" (Faure).
 8.28: Mezzo-contralto—Mrs. Graham Jamieson, (a) "God My Father" (Theodor Deubois); (b) "I Will Await Thee By The Blue River" (Coningsby Clarke); (c) "Ah, Thine Eyes of Azure" (Lassen).
 8.32: Piano—Miss Merle Miller, (a) "Prelude in G Minor" (Rachmaninoff); (b) "Waltz in A Major" (Levitzi); (c) "Etude in E Flat Major."
 8.40: Baritone—Mr. Olive Hindle, (a) "How Many Hired Servants" (Sullivan) (from "The Prodigal Son"); (b) "Beyond the Dawn" (Sanderson); (c) "Oh, Could I but Express in Song" (Malashkin); (d) "Water Boy" (arr. Avery Robinson).
 8.50: Flute—Mr. A. E. Hutton, (a) "Serenata" (Braga); (b) "Berceuse De Jocelyn" (Godard).
 9.0 : Weather report and station notices.
 9.2 : Organ—Terence Casey, "Devotion" (Ketelbey).
 9.5 : Soprano—Miss Addie Campbell, (a) "I Hear a Thrush at Eve" (Cadman); (b) "Serenade" (Gounod); (c) "Solweig's Song" (Grieg).
 9.15: Cornet—Mr. Norman G. Goffin, (a) "Stars in a Velvety Sky" (Clarke); (b) "Melody in F" (Rubinstein).
 9.25: Suite—St. Hilda Colliery Band, "Ballet Egyptian" (Luigini).
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JANUARY 18.

- 3.0 : Selected recordings.
 5.30: Children's hour, conducted by Big Brother Bill.
 6.15: Selected recordings.
 6.30: Relay of Evening Service from Hanover Street Baptist Church, Dunedin. Preacher: Rev. E. S. Tuckwell, B.A. Choirmaster: Mr. H. P. Desmoulin.
 7.45: Selected recordings.
 8.15: Relay of concert programme from 3YA, Christchurch.
 9.40: (Approx.)—God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, JANUARY 18.

- 6.0 : Children's service.
 8.15: Studio concert.

Monday, January 19

1YA, AUCKLAND (900 KILOCYCLES)—MONDAY, JANUARY 19,

SILENT DAY.

2YA, WELLINGTON (720 KILOCYCLES), MONDAY, JANUARY 19.

- 3.0 : Chimes. Selected gramophone recordings.
 3.30 and 4.30: Sporting results to hand.
 4.55: Close down.
 5.0 : Children's session, conducted by Uncle Jeff.
 6.0 : Dinner music session.
 International Novelty Orchestra, "Emperor" (J. Strauss).
 Vienna Philharmonic Orchestra, "Ruins of Athens" (Beethoven).
 Organ—Sydney Gustard, "Poupee Valsante" (Poldini).
 International Novelty Orchestra, "Gold and Silver" (Franz Lehar).
 6.14: Tacet.
 6.15: The Palladium Orchestra, "The Grasshopper's Dance" (Bucalossi).
 Vienna Philharmonic Orchestra, "Turkish March" (Mozart).
 Band of H.M. Coldstream Guards, "Morning, Noon and Night" (Suppe).
 The Rhythmic Eight, "Neapolitan Nights" (Zamecnik).
 6.29: Tacet.
 6.30: The Palladium Orchestra, "La Siesta" (Barcarolle) (Norton).
 Zonophone Salon Orchestra, "Love's Garden of Roses" (Haydn-Wood).
 Organ—Sydney Gustard, "Un Peu D'Amour" (Silesu).
 Zonophone Salon Orchestra, "Mighty Lak a Rose" (Nevin).
 6.44: Tacet.
 6.45: Marek Weber and His Orchestra, "Faust" Selection (Gounod).
 Band of H.M. Coldstream Guards, "Pique Dame" Overture (Suppe).
 6.57: Tacet.
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. The first of a series of special recorded programmes, procured by Mr. A. R. Harris, General Manager of the Radio Broadcasting Company of New Zealand, Limited, on his recent visit overseas, and featured by American broadcasting stations.
 9.0 : Weather report and station notices.
 9.2 : Presentation of the play "Treasure Island," founded on the novel by R. L. Stevenson, and produced by Mr. J. F. Montague.
 10.15: Dance programme.
 Foxtrots—Henry Busse and His Orchestra, "I Came to You."
 Gus Arnheim and His Orchestra, "I'm Feathering a Nest."
 10.21: Vocal—Olga Albani, "It's You I Love" (Davis).
 10.24: Foxtrots—New Mayfair Dance Orchestra, "There's Room in My Heart" (Gibbons); "Cuban Nights" (Salvato); "I'll Be Getting Along" (Gibbons).
 Waltz—Bob Haring and His Orchestra, "Bye and Bye, Sweetheart."
 10.36: Foxtrots—Nat Shilkret and His Orchestra, "Congratulations."
 New Mayfair Dance Orchestra, "Cuckoo in the Clock."
 George Olsen and His Music, "The Moon is Low" (Freed).
 10.45: Vocal—Grace Hayes, "On the Sunny Side of the Street" (Fields).
 10.48: Foxtrots—The High Hatters, "You Brought a New Kind of Love to Me" (Kahal, Fain).
 Nat Shilkret and His Orchestra, "Into My Heart."
 Herman Klenin and His Orchestra, "I'm Doing What I'm Doing for Love" (Yellen).
 Nat Shilkret and His Orchestra, "Dark Night" (Grey).
 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES), MONDAY, JANUARY 19.

- 3.0 : Gramophone recital.
 4.25: Sports results.
 4.30: Close down.
 5.0 : Children's hour.

Week-all Stations-to Jan. 25

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

- 6.0 : Dinner session.
Albert W. Ketelbey's Concert Orchestra, "Cockney Suite" (Ketelbey).
1—State Procession (Buckingham Palace); 2—The Cockney Lover (Lambeth Walk); 3—At the Palais de Dance (Anywhere); 4—Elegy (Thoughts on passing the Cenotaph).
- 6.18: Tacet.
- 6.15: Albert W. Ketelbey's Concert Orchestra, "Cockney Suite" (Ketelbey).
No. 5—Bank Holiday ('Appy 'Ampstead).
Band of H.M. Grenadier Guards, "Radio Quick March" (Pecking).
Jack Payne and the B.B.C. Dance Orchestra, "Say It With Songs Selection" (de Sylva).
- 6.28: Tacet.
- 6.30: Albert W. Ketelbey's Concert Orchestra, "Jungle Drums Patrol."
Organ—Emil Velazco, "Estrellita."
Debroy Somers Band, "Hungarian Medley" (arr. Somers).
- 6.43: Tacet.
- 6.45: Albert W. Ketelbey's Concert Orchestra, "By the Blue Hawaiian Waters" (Ketelbey).
Organ—Emil Velazco, "La Golondrina."
Band of H.M. Grenadier Guards, "Fighting Strength" (Jordan).
- 6.58: Tacet.
- 7.0 : News session.
- 7.30: Talk—Mr. E. E. Wiltshire, "Books of the Month."
- 8.0 : Chimes.
- Band programme by the Woolston Brass Band (Conductor, Mr. R. J. Estall), and assisted by 3YA Artists.
- March—Band, "Harlequin" (Rimmer); Overture, "Mirella" (Gounod).
- 8.12: Bass—Mr. G. H. Ponder, "Chorus! Gentlemen" (Lohr).

- 8.16: Instrumental—Broadcasting Trio, "Trio, Op. 330, No. 1" (Bohm).
- 8.26: Mezzo-contralto—Miss Lily Kinsella, (a) "Twilight" (Glen); (b) "Love's Echo" (Newton).
- 8.32: Intermezzo—Band, "Bells at Sunset" (McKenzie).
- 8.37: Tenor—Mr. W. J. Trewern, "An Evening Song" (Blumenthal).
- 8.41: Monologue—Gillie Potter, "Mr. Potter Visits Southend" (Potter).
- 8.49: Selection—Band, "Gems of Italian Opera" (Rimmer).
- 8.59: Weather forecast and station notices.
- 9.1 : Selection—Plaza Theatre Orchestra, "Three Bears" (Coates).
- 9.9 : Bass—Mr. G. H. Ponder, (a) "The Sailor's Paradise" (Richards); (b) "Old Barty" (Grant).
- 9.15: Descriptive—Band, "Turkish Patrol" (Ord Hume).
- 9.20: Vocal jazz—James Milton, (a) "Dear Little Mother of Mine" (Sterling); (b) "Neapolitan Nights" (Zamecnik).
- 9.26: Instrumental—Broadcasting Trio, (a) "Swedish Folk Song" (Svendson); (b) "Mazurka" (Malling); (c) "Hungarian Dance No. 4."
- 9.36: Mezzo-contralto—Miss Lily Kinsella, "The Valley of Laughter."
- 9.40: Trombone—Bandsman E. Williams, "The Joker" (Moss).
- 9.45: Tenor—Mr. W. J. Trewern, (a) "I Dream of a Garden of Sunshine" (Lohr); (b) "The Yeoman's Wedding Song" (Poniatowski).
- 9.51: Waltz—Band, "My Desert Rose" (Terise); March, "Flying Squadron."
- 10.6 : God save the King.

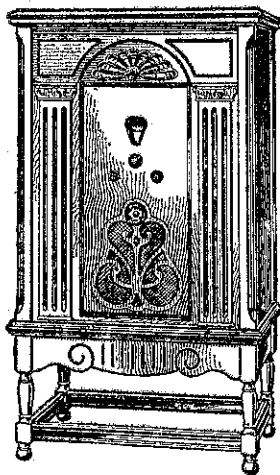
4YA, DUNEDIN (650 KILOCYCLES)—MONDAY, JANUARY 19.

- 3.0 : Chimes. Selected recordings.
- 4.30: Close down.
- 5.0 : Children's session, conducted by Big Brother Bill.
- 6.0 : Dinner session.
Band of H.M. Grenadier Guards, "Sir Harry Lauder Medley."
J. H. Squire's Celeste Octet, "Second Movement from Symphonie Pathetique" (Tschalkowsky, arr. Robertson).
Modern Dance Players, "Amoretten Tanze" (Gung'l).
- 6.14: Tacet.
- 6.15: Court Symphony Orchestra, "The Windmill Man."
Organ—Stanley Macdonald, "The Rosary" (Nevin).
Symphony Orchestra, "When the Lemons Bloom" (Strauss).
- 6.29: Tacet.
- 6.30: Plaza Theatre Orchestra, "The Three Bears" (Coates).
Symphony Orchestra, "Doctrinen" (Strauss).
- 6.44: Tacet.
- 6.45: B.B.C. Wireless Military Band, "Le Reve Passe" (Krier).
J. H. Squire's Celeste Octet, "Scene de Ballet" (de Beriot).
Organ—Stanley Macdonald, "La Rosita" (Dupont).
Continental Novelty Orchestra, "Los Claveles de Sevilla."
- 6.59: Tacet.
- 7.0 : News session.
- 8.0 : Chimes.
- Selection—Jack Hylton and His Band, "Melodious Memories" (Finck).
- 8.9 : Soprano—Miss Lettie de Clifford, (a) "Early One Morning" (Phillips); (b) "Rose of My Heart" (Lohr); (c) "My Laddie" (Thayer)
- 8.10: Recitals—Miss Anita Bowler, (a) "The County Squire" (Anon); (b) "Matilda" (Belloc); (c) "No Thank You, Tom" (Anon).
- 8.20: Waltz—Novelty Syncopators, "Tis I Myself" (arr. Gill).
Popular melodies—Novelty Syncopators, "Sailing on a Sunbeam" (Dreyer); "With the Big Moon Laughing at Me" (Lew Walton).
- 8.47: Baritone—Mr. N. C. Gamble, (a) "The Linden Tree" (Schubert); (b) "The Wayside Inn" (Schubert); (c) "The Fishermayden."
- 8.57: Piano duo—Arden and Ohman, "Ragamuffin Romeo" (Greer).
- 9.0 : Weather report and station notices.
- 9.2 : Popular melody—Novelty Syncopators, (a) "My Lucky Star" (de Sylva); (b) "I Owe You" (Hartman).
- 9.18: Contralto—Miss Betty Hamilton, (a) "June is in My Heart" (Vaughan); (b) "Forest Lullaby" (Baynon); (c) "The Little Blue Bay" (del Riego).
- 9.28: Novelty Syncopators, "I Like You for That" (Endor); Popular Melodies, "Crying for the Carolines" (Young).
Saxophone—Mr. J. McCaw, "Waltz Llewellyn" (Wiedoeft).
- 9.39: Tenor—Mr. J. E. Davies, "Moana" (Adams); "Thoughts" (Fisher); "I've Gota Robe" (Traditional).
- 9.49: Song hit—Novelty Syncopators, "Have a Little Faith in Me" (Young).
Cornet—Mr. J. Wills, "Until" (D'Hardelot).
- 9.57: Selections—Band of H.M. Grenadier Guards, (a) "Hiawatha" (Moret); (b) "Liberty Bell" (Sousa).
- 10.0 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—MONDAY, JANUARY 19.

- 6.30: Children's session.
- 7.30: News, markets and information.
- 8.0 : Studio concert.

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Tuesday, January 20

1YA, AUCKLAND (900 KILOCYCLES)—TUESDAY, JANUARY 20.

- 3.0 : Selected gramophone recordings.
 3.15: Talk—Mrs. Les Crane, "Beauty of Mind and Body in Relation to Diet."
 3.30: Further selected recordings.
 5.0 : Children's session, conducted by Uncle Dave.
 6.0 : Dinner music session.
 Milan Symphony Orchestra, "Mignon" Overture (Thomas).
 H. G. Amers and the Eastbourne Municipal Band, "The Little Clock on the Mantel" (Wheeler).
 Jean Lensen and His Orchestra, "Millions D'Arlequin" (Drigo).
 6.15: Symphony Orchestra, "Hungarian March" (Berlioz).
 Violin—Toscha Seidel, "Hebrew Melody" (Achorn—arrgd. Zimballist).
 Jean Lensen and His Orchestra, "Si Mes Vers Avaient Des Ailes."
 Bernardo Gallico and His Orchestra, "The Dance of the Dwarfs."
 6.30: H. C. Amers and the Eastbourne Municipal Orchestra, "Silhouettes" (Arensky). (a) "Introduction," (b) "La Coquette."
 Bernardo Gallico and His Orchestra, "The Clock is Playing" (Blaauw).
 H. G. Amers and the Eastbourne Municipal Band, "Dancing Doll" (Poupee Valsante) (Poldini); "Silhouettes—The Dreamer."
 6.45: Zurich Tonhalle Orchestra, "Il Seraglio" Overture (Mozart).
 Violin—Toscha Seidel, "Ave Maria" (Schubert).
 Symphony Orchestra, "Coppelia Ballet—Entr'acte and Valse."
 7.0 : News and market reports.
 7.40: Talk, "Motoring," Mr. Rod Talbot.
 8.0 : Chimes. March—Orchestral Octet, under direction of Harold Baxter, "Great Little Army" (Alford); suite, "As You Like It" (Quilter), (a) "Shepherd's Holiday," (b) "Evening in the Forest," (c) "Merry Pranks."
 8.14: Mezzo-soprano—Madame Towsey, "The Star of Bethlehem" (Adams).
 Vocal duet—Madame Mary Towsey and Mr. John Bree, "The Golden Song" (Clutsam).
 8.21: Orchestral Octet, "Plantation Melodies" (Clutsam).
 8.29: Baritone—Mr. John Bree, (a) "From Oberon in Fairyland" (Slater-Kennedy); (b) "Kishmul's Galley" (Fraser).
 8.36: Suite—Orchestral Octet, "St. Agnes Eve" (Coleridge-Taylor).
 8.46: Topical talk—Mr. A. B. Chappell, M.A.
 9.1 : Evening weather forecast and announcements.
 9.3 : Morceaux—Orchestral Octet, "Pierette's Wedding" (Jordan); "Carissima" (Elgar).
 9.12: Mezzo-soprano—Madame Mary Towsey, "A Birthday" (Woodman); "Love was Once a Little Boy" (arrgd. Lehmann).
 Vocal duet—Madame Towsey and Mr. John Bree, "What Will You Do, Love?" (Glover).
 9.22: Waltz—Orchestral Octet, "Jewels of the Night" (Mouree).
 9.27: Programme of dance music.
 Foxtrots—Paul Tremaine and His Orchestra, "Hand Me Down My Walkin' Cane" (arrgd. Tremaine).
 Paul Whiteman and His Orchestra, "Happy Feet" (Yellen).
 Ray Starita and His Ambassadors Band, "Ev'ry Little Moment" (Newman).
 Paul Whiteman and His Orchestra, "A Bench in the Park."
 9.42: Waltzes—Russian Novelty Orchestra, "Greetings of Spring."
 Novelty Dance Orchestra, "Sobbing Waltz."
 9.48: Vocal—James Melton, "Neapolitan Nights."
 9.51: Foxtrots—Ben Selvin's Orchestra, "The Woman in the Shoe" (Brown).
 Paul Whiteman and His Orchestra, "Should I?" (Brown).
 The Rhythmic Troubadours, "On Her Doorstep Last Night."
 10.0 : Waltzes—Paul Whiteman's Orchestra, "A Bundle of Old Love Letters."
 Moana Orchestra, "Imi Au Ia Oe" (King).
 Foxtrots—The Rhythmic Troubadours, "Fairy on the Clock" (Myers).
 Ben Selvin and His Orchestra, "Only Love is Real" (Brown).
 10.12: Vocal—Ernest Hastings, "Perverved Placards" (Bateman).
 10.15: Foxtrots—Paul Specht and His Orchestra, "The Harbour of My Heart."
 Gil Dech and His Syncopators, "Let's be Common" (Grey).
 Paul Specht and His Orchestra, "Keepin' Myself For You."
 Ray Starita and His Ambassadors Band, "Spread a Little Happiness" (Grey).
 10.27: Waltzes—Russian Novelty Orchestra, "The Love of a Gypsy."
 Novelty Dance Orchestra, "First Love Waltz."
 10.33: Foxtrots—Ben Selvin and His Orchestra, "Song of the Islands" (King).
 Moana Orchestra, "For You a Lei" (Noble).
 Gil Dech and His Syncopators, "Nobody's Using It Now."
 10.42: Vocal—James Melton, "Dear Little Mother of Mine" (Jayne).
 10.45: Foxtrots—Guy Lombardo and His Royal Canadians, "With You."
 Will Osborne and His Orchestra, "I Knew We Two Were One" (Denniker).
 Guy Lombardo and His Royal Canadians, "There's Danger in Your Eyes, Cherie" (Richman).
 Waltzes—Moana Orchestra, "My Hawaiian Souvenir" (King).
 Vic Meyer and His Band, "If I'm Dreaming" (Burke).
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—TUESDAY, JANUARY 20.

- 12.0 : Results of Wellington Racing Club's Summer Meeting, interspersed with selected gramophone items.

- 5.0 : Children's session, conducted by Uncle Toby and Jumbo.
 6.0 : Dinner music session.
 Royal Opera Orchestra, "Carmen Entr'acte, Act 4 and Ballet No. 11"
 Piccadilly Orchestra, "My Beloved Gondolier" (Tibor).
 London Symphony Orchestra, "Chanson de Nuit" (Elgar).
 Trio—Fritz and Hugo Kreisler, Michael Rauchaussen, "Marche Miniature Viennois" (Kreisler).
 6.15: National Symphony Orchestra, "Light Cavalry" Overture (Suppe).
 Royal Opera Orchestra, "Carmen Ballet No. 2" (Bizet).
 Piccadilly Orchestra, "Souvenir di Capri" (Bece).
 6.30: Philadelphia Symphony Orchestra, "Invitation to the Waltz" (Weber).
 New Symphony Orchestra, "Pastoral Dance" (from "Neil Gwynn").
 Trio—Fritz and Hugo Kreisler, Michael Rauchaussen, "Syncopation."
 6.45: London Symphony Orchestra, "Chanson de Nuit" (Elgar).
 Berlin State Opera Orchestra, "The Beautiful Galathea" Overture.
 New Symphony Orchestra, "Country Dance" (from "Neil Gwynn").
 7.0 : News session, market reports and sports results.
 7.40: Lecture by a Representative of the Agricultural Department, "For the Man on the Land."
 8.0 : Relay from the Wellington Town Hall of civic reception to be tendered to the Rt. Hon. G. W. Forbes, Prime Minister of New Zealand, and members of the New Zealand Delegation to the Imperial Conference on their return. Speeches of welcome will be made by the Rt. Hon. J. G. Coates, M.P., Mr. H. E. Holland, M.P., and Mr. G. A. Troup, Mayor of Wellington. The proceedings will be interspersed with musical items.
 God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—TUESDAY, JANUARY 20.

- 8.0 : Relay of 2YA's broadcast of welcome to Rt. Hon. G. W. Forbes and party.
 God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—TUESDAY, JANUARY 20.

- 3.0 : Chimes. Selected gramophone items.
 5.0 : Children's hour, conducted by "Uncle Bert."
 6.0 : Dinner music:
 Orchestral—Halle Orchestra, "Capriccio Espagnole."
 6.15: Menorah Symphony Orchestra, "Bar Kochba" Selection (Goldfaden).
 Piano—Ignaz Friedman, "Minuetto from Suite" (J. Suk).
 New York Symphony Orchestra, "Entrance of the Little Fauns."
 6.30: Musical Art Quartet, "To a Wild Rose" (McDowell).
 Violin—Yelly d'Aranyi, "Souvenir" (Drda).
 Orchestra de la Societe des Concerts du Conservatoire, Paris, "Le Rouet d'Omphale" (Saint-Saens).
 6.45: Musical Art Quartet, "Mighty Lak' a Rose" (Nevin).
 Piano—Ignaz Friedman, "Berceuse" (Chopin).
 Orchestral—Berlin State Orchestra, "Wiener Blut" (Strauss).
 7.0 : News session.
 8.0 : Programme of Burns Instrumental Music to be rendered by Dunedin Highland Pipe Band under the direction of Pipe-Major McMillan.
 Selection—Pipe Band, "My Native Highland Home," "My Home," "Braes o' Tullymet," "Jenny Dang, the Weaver," (all by Burns).
 8.11: Baritone—Mr. Dudley Poole, "Captain Mac" (Sanderson); "When Song is Sweet" (Sans Souci).
 8.17: Novelty—Scott and Whaley, "A Run with the Darktown Hunt."
 8.23: Selections—Pipe Band, "My Love, She's but a Lassie Yet," "Blue Mountains of Albain," "A Hundred Pipers," "Braes of Mar," "The Wind that Shook the Barley" (all by Burns).
 8.34: Soprano—Miss Dora Drake, "Pipes o' Pan" (Monckton).
 8.37: Piano—Miss Ida Lungley, "Two Scottish Poem Pictures" (McDowell).
 8.42: Chorus—Light Opera Company, (a) "Vocal Gems from 'Whoopee'" (Kahn-Donaldson); "Vocal Gems from 'Hold Everything'."
 8.51: Bass—Mr. G. M. Salmund, "Border Ballad" (Cowan), "Sands of Dee."
 8.53: Weather report and station notices.
 9.1 : Selections—Pipe Band, "John Bain Mackenzie," "Corporal Burns," "Hills of Donegal," "Marquis of Huntley," "Pipe of Drummond" (all by Burns).
 9.11: Baritone—Mr. Dudley Poole, "The Flight of Ages" (Weatherley).
 9.14: Organ—Herbert Dawson, (a) "Evensong" (Easthope-Martin), (b) "Idylle" (Elgar).

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- 9.20: Selections—Pipe Band, "A Man's a Man," "Craigielea," "Bonnie Dundee," "Keel Row" (all by Burns).
 9.30: Soprano—Miss Dora Drake, "Happy Summer Song" (Hahn), "The Fairy Schoon" (Brewer).
 9.36: One-step—Debroys Somers Band, "Scottish Medley" (arr. Somers).
 9.40: Bass—Mr. G. M. Salmon, "When the Swallows Homeward Fly."
 9.43: Selections—Pipe Band, "Highland Laddie" (Burns), "Home, Sweet Home" (Bishop), "Athole Highlanders" (Burns).
 9.53: Nat Shilkret's Orchestra and Chorus, "Stephen Foster's Melodies."
 10.0: God save the King.

Wednesday, January 21

1YA, AUCKLAND (900 KILOCYCLES)—WEDNESDAY, JANUARY 21.

- 3.0: Selected gramophone recordings.
 3.30: Literary selection.
 5.0: Children's session, conducted by "Uncle Barney."
 6.0: Dinner session:
 Grand Symphony Orchestra, "Suite Orientale" (a) "March," (b) "On the Shore of the Ganges" (Francis Popy).
 Edith Lorand's Orchestra, "Toreador and Andalous" (Rubinstein).
 Grand Symphony Orchestra, "Naila" (Delibes).
 6.15: Dajos Bela Orchestra, "Woodland Peace" (Favilla).
 Berlin State Opera House Orchestra, "The Barber of Seville" Overture.
 Edith Lorand's Orchestra, "Minuet" (Boccherini).
 6.30: Grand Symphony Orchestra, "Suite Orientale—The Patrol" (Francis Popy); "Lastspiel Overture" (Kela Bela).
 Dajos Bela Orchestra, "The Court Ball" (Josef Lanner).
 Grand Symphony Orchestra, "Japanese Lantern Dance" (Yoshitome).
 6.45: Grand Symphony Orchestra, "Suite Orientale—The Dancers" (Popy).
 Dajos Bela Orchestra, "Viennese Waltz Potpourri" (Robrecht).
 Grand Symphony Orchestra, "Chinese Street Serenade" (Ludwig Liede).
 7.0: News and market reports.
 8.0: Chimes—Selection—Band of H.M. Grenadier Guards, "The Meister-singers" (Wagner).
 8.9: Tenor—Mr. Ian H. Burry, (a) "I Hear a Thrush at Eve" (Cadman), (b) "Thank God for a Garden" (Del Riego), (c) "Because I Love You" (Hawley), (d) "I Seek for Thee in Every Flower" (Ganz).
 8.21: Instrumental—Bert Kingsland's Saxophone Quartet, (a) "Down Home Rag" (Sweetman), (b) "Dear Heart" (Grey).
 8.29: Comedy sketch—Auckland Comedy Players, Two Scenes from "The School for Scandal" (Sheridan), (a) "The Quarrel Scene," (b) "The Screen Scene."
 8.54: Selection—Orchestre de la Societe des Concerts, "In the Steppes of Central Asia" (Borodine).

- 9.0: Evening weather forecast and announcements.
 9.2: Soprano—Miss Gwladys Payne, (a) "Damon" (Strang), (b) "It's Only a Tiny Garden" (Haydn Wood), (c) "The Woodpigeon."
 9.12: Balalaika—Mr. Simon Philippoff, (a) "Liebesfreud" (Kreisler); (b) "Waltz in C Sharp Minor" (Chopin), (c) "Shining Moon."
 9.24: Play—Auckland Comedy Players, "A Lot for Your Money" (Carlton).
 9.36: Bert Kingsland's Saxophone Quartet, (a) "Every Day" (Brookes), (b) "Dancing Fool" (Williamson-Jones).
 9.44: Baritone—Mr. Victor Baxter, (a) "When Dull Care" (arr. Lane Wilson), (b) "Harlequin" (Sanderson), (c) "Little Mary Cassidy" (Somervell), (d) "The Yeoman's Wedding Song" (Poniatowski).
 9.56: Selection—Band of H.M. Grenadier Guards, (a) "Twist and Twirl" (Kottan), (b) "La Paloma" (Yradier).
 10.2: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—WEDNESDAY, JANUARY 21.

SILENT DAY.

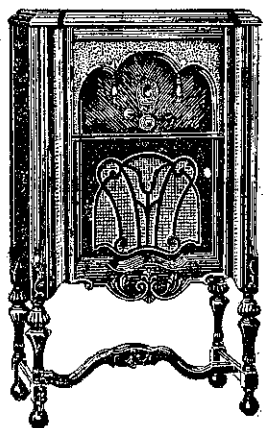
3YA, CHRISTCHURCH (980 KILOCYCLES)—WEDNESDAY, JAN. 21.

- 3.0: Gramophone recital.
 4.25: Sports results.
 5.0: Children's hour.
 6.0: Dinner session.
 Philadelphia Symphony Orchestra, "Carmen"—Soldiers Changing Guard" (Bizet).
 Zonophone Salon Orchestra, "Evansong" (Easthope Martin).
 New Symphony Orchestra, "Minuet" (Boccherini).
 Philadelphia Symphony Orchestra, "Carmen"—March of the Smug-glers" (Bizet).
 6.15: National Military Band, "The Flying Dutchman" Overture" (Wagner).
 De Groot and Piccadilly Orchestra, "Waldteufel Memories."
 6.30: Marek Weber's Orchestra, "I Pagliacci" (Leoncavallo).
 Zonophone Salon Orchestra, "Eleanor" (Deppen).
 New Symphony Orchestra, "Nell Gwynn Dance No. 3" (German).
 6.45: New Symphony Orchestra, "Le Old' Ballet Music" (Massenet): (1) Castillane, (2) Aubade, (3) Andalous, (4) Aragonaise, (5) Mad-rilene, (6) Navarraise.
 7.0: News session.
 7.30: Addington stock market reports.
 8.0: Chimes. A nautical programme entitled, "Seas, Ships, and Sailormen" by the Avon Glee Singers, under direction of Miss Millicent Jen-nings, with Lieut.-Commander Kersley, R.N.R. Miss Althea Slack, pianist; Mr. R. S. H. Buchanan, bass; Mr. J. T. Watts, elocution. Interspersed with instrumental items by the Studio Octet.
 Fantasia—Band of H.M. Grenadier Guards, "Voyage in a Troopship."
 Spoken verses, "Sea Fever" (Masefield).
 Chorus, "In Praise of Neptune" (Ireland).
 Piano, "The Sea" (Palmgren).
 Double duet—Sopranos and contraltos, "My Barque is Bounding to the Gale" (Mendelssohn).
 8.18: Instrumental—Studio Octet (Harold Beck, conductor), "Plymouth Hoe" (Ansell).
 8.25: Flute quartet—London Flute Quartet, "Scotch and Irish Airs."
 8.28: Sea story told by Lieut.-Commander Kersley, R.N.R., "Larry Peg-Leg McGinnes" (from "Eight Bells") (Captain Waters).
 Bass, "Tops'l Halyards" (Harrhy).
 Double duet, "Vocal Hornpipe" (Rowley).
 8.38: Cello—Mr. Harold Beck, "O Star of Eve" (Wagner, arr. Beck).
 8.43: Short reading, "The Unquiet Sea" (Filson Young).
 Contralto, "The Sands of Dee" (Clay).
 Chorus, "Full Fathom Five" (Purcell).
 8.51: Selection—United States Navy Band, (a) "All Hands" (Benter), (b) "Anchor's Aweigh" (Zimmerman).
 8.57: Weather forecast and station notices.
 8.59: Instrumental—Studio Octet, "Overture, 'H.M.S. Pinafore'" (Sullivan).
 9.11: Recitation, "The Mariners" (Woods).
 Mezzo-contralto and vocal sextet, "Three Fishers Went Sailing."
 Short reading, "Sweethearts and Wives" (from "Eight Bells").
 Piano, "Molly on the Shore" (Grainger).
 9.23: Choral—Russian State Choir, "Storm on the Volga" (Pastshenko).
 9.31: Instrumental—Studio Octet, "Faust" Ballet Music" (Gounod).
 9.42: Bass and chorus, "A Capstan Shanty" (Harrhy).
 Soprano and chorus, "Norwegian Fisher Girl's Song" (Aspinall).
 Recitation, "Christmas at Sea" (R. L. Stevenson).
 Sailor's song and chorus, "Rolling Home" (traditional).
 9.54: Mouth-organ—P. C. Spouse, "Hornpipe Medley."
 9.57: Instrumental—Studio Octet, "Street in Algiers" (Ansell).
 10.4: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—WEDNESDAY, JANUARY 21.

- 3.0: Selected recordings.
 3.15: Talk—Arranged by Home Science Extension Department of Otago University, "Eat More Fruit."
 5.0: Children's Session, conducted by Big Brother Bill.
 6.0: Dinner music session.
 New Light Symphony Orchestra, "Merry Wives of Windsor."
 Marek Weber's Orchestra, "Moonlight on the Alster" (Fetras).
 6.15: New Light Symphony Orchestra, "Hearts and Flowers" (Tobani).
 Marek Weber's Orchestra, "Wine, Women and Song" (Weber).
 Organ—Reginald Foort, "By the Blue Hawaiian Waters."

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- 6.30: New Light Symphony Orchestra, "The Glow Worm Idyll" (Lincke).
Victor Salon Orchestra, "Indian Love Call" ("Rose Marie") (Friml);
"The World is Waiting for the Sunrise" (Lockhart).
De Groot and His Orchestra, "When Summer is Gone" (Harrison).
6.45: De Groot's Orchestra, "The Merry Widow" (Lehar).
Organ solos—Reginald Foort, (a) "Leave Me Alone"; (b) "Songs My Mother Taught Me" (Dvorak).
7.0: News session.
7.15: Talk—Mr. S. C. Rhodes, under auspices of 4YA Primary Productions Committee, "Handling the Honey Crop."
8.0: Chimes. Selection—Halle Orchestra, "Capriccio Espagnole."
8.17: Mezzo-soprano—Miss Winnie Collier, "Extracts From Song Cycle"—
"Dream of Egypt" (Woodford-Finden).
8.27: Violin—Miss Eva Judd, "Sonata in A" (Handel); Instrumental—
Misses Rita Holmes, Judd and Moffatt, "Trio in A Minor."
8.42: Baritone—Mr. Ralph Martindale, (a) "Tommy Lad" (Margeson);
(b) "The Peace of God" (Gounod); (c) "I'll Sing Three Songs of Araby" (Clay).
8.52: Recitals—Mr. J. B. McConnell, (a) "Violets"; (b) "Logie and Spotted Dog" (From "The Sentimental Bloke") (Dennis).
9.3: Weather forecast and station notices.
9.5: Selections—Instrumental Trio, "Trio in G Minor" (Chaminade),
"Spring Song" (Mendelssohn).
9.17: Contralto—Miss Bertha Rawlinson, Recit. and Air. from "Theodora" (Handel); "To the Evening Star" (Raff); "Irish Lullaby."
9.27: Chorus—Light Opera Company, Vocal Gems from "The Arcadians."
9.33: Dance session.
Foxtrots—Anglo-Persians, "Dancing Butterfly" (Pascal).
Abe Lyman and His California Orchestra, "Worryin' Over You" (Tobias).
Al Goodman and His "Flying High" Orchestra, "Thank Your Father" (De Sylva).
Waltz—Regent Club Orchestra, "I Love You So" (Kahn).
9.42: Foxtrots—Tom Clines and His Music, "Until Love Comes Along."
Lloyd Huntley and His Isle O' Blues Orchestra, "Promises."
Ben Bernie and His Orchestra, "Telling It To The Daisies."
Lloyd Huntley and His Isle O' Blues Orchestra, "On a Blue and Moonless Night" (O'Flynn).
9.54: Vocal trio—Earl Burtneft's Biltmore Trio, "If I'm Dreaming."
Foxtrots—Ben Bernie and His Orchestra, "Keepin' Myself For You."
Colonial Club Orchestra, "Caribbean Love Song" (Berton).
Ben Bernie and His Orchestra, "You Brought a New Kind of Love to Me" (Fain).
Tom Clines and His Music, "Any Time's The Time to Fall in Love" (Janis).
10.9: Waltz—Ben Bernie and His Hotel Roosevelt Orchestra, "Coquette."
Foxtrots—Dan Russo and His Oriole Orchestra, "Sweetheart."
Roger Wolfe Kahn and His Orchestra, "Exactly Like You."
Ben Bernie and His Orchestra, "Reminiscing" (Leslie).
10.21: Vocal—Vaughn De Leath, "Sometimes I'm Happy" (Caesar).
Foxtrots—Abe Lyman and His California Orchestra, "You Still Come Back to Me" (Fields).
Ben Bernie and His Orchestra, "Livin' in the Sunlight, Lovin' in the Moonlight" (Sherman).
Colonial Club Orchestra, "Watching My Dreams Go By."
10.33: Waltz—Regent Club Orchestra, "Lazy Louisiana Moon" (Donaldson).
Foxtrots—Colonial Club Orchestra, "Wherever You Are" (Kalmar);
"Sweepin' the Clouds Away" (Coslow).
10.42: Vocal trio—Earl Burtneft's Biltmore Trio, "A Year from To-day."
Foxtrots—Roger Wolfe Kahn and His Orchestra, "On the Sunny Side of the Street" (Fields).
The Jungle Band, "Sweet Mama" (Ellington).
Waltz—Earl Burtneft and His Los Angeles Biltmore Hotel Orchestra, "Love Boat" (Brown).
Foxtrots—Anglo Persians, "The Toy-Town Admiral" (Godfrey).
Colonial Club Orchestra, "All Alone Monday" (Kalmar).
11.0: God Save the King.

2YA, NEW PLYMOUTH (1230 KILOCYCLES)—WEDNESDAY, JANUARY 21

- 6.30: Children's session.
7.30: News, markets, and information.
8.0: Studio concert.

Thursday, January 22

1YA, AUCKLAND (900 KILOCYCLES)—THURSDAY, JANUARY 22.

- 3.0: Selected gramophone recordings.
3.15: Talk—"Dinners and Teas" arranged by the Home Science Extension Department of Otago University.
3.30: Further selected recordings.
5.0: Children's session, conducted by Peter Pan.
6.0: Dinner session.
Albert Sandler and His Orchestra, "Someday, Somewhere" (Rapee).
B.B.C. Wireless Military Band, "Strathspeys and Reels."
Saxophone—Rudy Wiedoeft, "Saxo-Phun" (Wiedoeft).
Len Phillis Novelty Trio, "The Heart of the Sunset" (Nicholls).
6.15: Percy Pitt and Augmented Symphony Orchestra, "Poet and Peasant Overture" (Suppe).
Harp—Sidonie Goossens, "Song of the Volga Boatmen."

- H. G. Amers and the Eastbourne Municipal Band, "The B'Hoys of Tipperary" (Amers).
6.30: Albert Sandler and His Orchestra, "Sonny Boy" (de Sylva).
H. G. Amers and the Eastbourne Municipal Orchestra, "Second Serenata" (Toselli).
Saxophone—Rudy Wiedoeft, "La Cinquantaine" (Marie).
Debroy Somers' Band, "Russian Fantasy" (arr. Lange and Somers).
6.45: H. G. Amers and the Eastbourne Municipal Band, "All on a Christmas Morning—Idyll" (Amers).
B.B.C. Wireless Symphony Orchestra, "H.M.S. Pinafore" Selection.
H. G. Amers and the Eastbourne Municipal Orchestra, "Tarentelle for Flute and Clarinet" (Saint-Saens).
7.0: News and market reports.
8.0: Chimes.
March—Orchestral Octet under direction of Harold Baxter, "Wait for the Waggon" (Woodhouse); Morceaux, "Berceuse" (Sibelius), "Serenade" (Herbert).
8.18: Contralto—Miss Winifred Johnson, (a) "My Ships" (Barrett), (b) "Boat Song" (Ware).
8.19: Selections—Band of H.M. Royal Air Force, (a) "In a Chinese Temple Garden" (Ketelbey); (b) "Gondolier and Nightingale" (Langay).
8.27: Entertainers—Mr. Elton Black and Miss Alice Bennetto, "Pierrot Phantasy," Part 1.
8.37: Selection—Orchestral Octet, "Chocolate Soldier" (Strauss).
8.45: Tenor—Mr. Ian M. Grant, (a) "The Star" (Rogers), (b) "The Rosary" (Nevin).
8.50: Organ—Reginald Foort, (a) "The Desert Song" (Romberg); (b) "The Riff Song" (Romberg).
8.56: Spanish Waltz—Orchestral Octet, "Barcelona" (Hildreth).
9.0: Evening Weather Forecast and Announcements.
9.2: Contralto—Miss Winifred Johnson, (a) "Who Knows" (Ball), (b) "When the House is Asleep" (Haigh).
9.8: Selection—Band of H.M. Grenadier Guards, "New Sullivan Selection."
9.16: Entertainers—Mr. Elton Black and Miss Alice Bennetto, "Pierrot Phantasy" Part 2.
9.26: Suite—Orchestral Octet, "Carnival" (Ring), (a) "Cavalcade"; (b) "Pierette"; (c) "Harlequin"; (d) "Columbine"; (e) "Frolic."
9.40: Tenor—Mr. Ian M. Grant, (a) "A String of Pearls" (Phillips); (b) "I Love You Truly" (Jacobs-Bond).
9.46: Novelty—Charles Coburn and Company, "An Old Time Sing Song."
9.54: Ballet Music, Orchestral Octet, "Coppelia" (Delibes).
10.0: God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—THURSDAY, JANUARY 22.

- 12.0: Results of the Wellington Racing Club's Summer meeting, interspersed with selected gramophone items.
3.15: Talk—Miss I. F. Meadows, "Dinners and Teas," arranged by the Home Science Extension Department of Otago University.
5.0: Children's session, conducted by Uncle George and Big Brother Jack.
6.0: Dinner music session.
The Philharmonic Orchestra, Berlin, "The Gipsy Baron" (Strauss).
Heerman Trio, "Pierette" (Chaminade).
Brunswick Hour Orchestra, "Only a Rose" (Hooker).
6.15: Symphony Orchestra, "Eva" Medley (Lehar).
New Light Symphony Orchestra, "Spanish Dance No. 1" (Moszkowski).
Brunswick Concert Orchestra, "The Perfect Song" (Breil).
6.30: Symphony Orchestra, "Frederick" Medley (Lehar).
New Light Symphony Orchestra, "Spanish Serenade" (Bizet).
Brunswick Concert Orchestra, "Sylvia" (Speaks).
6.45: Heerman Trio, "Dalvisa" (Sandy).
Paul Godwin's String Orchestra, "Lehariana" (arr. Geiger).
7.0: News session, market reports and sports results.
7.40: Lecturette—Mr. W. M. Jackson, "Gladioli."
8.0: Chimes. Studio Concert by Mr. L. M. Assheton Harbord, L.R.A.M. and His Orchestra, assisted by 2YA artists.
Overture—The Orchestra, "Echoes of Ireland" (Lange).
8.8: Baritone—Mr. L. M. Assheton Harbord, "Sleep and the Roses" (Tate).
8.12: Novelty piano—Mr. Pat Bell, "I've Got a Feeling I'm Falling."
8.17: Soprano—Miss Kathleen Ferris, "Love's Old Sweet Song" (Molloy).
8.22: Banjo—Mr. Charles Brazier, "Sleep" (arr. Brazier).
8.27: Contralto—Mrs. Daisy Basham, (a) "When Daisies Pied" (Arne); (b) "Four Leaf Clover" (Willeby).
8.33: Humour—Something fresh from Mr. Len Ashton (arr. Ashton).
8.38: March—The Orchestra, "Dodges' March" (from "Merchant of Venice").
8.43: Tenor—Mr. G. Austin Blackie, "Bonnie Mary of Argyll" (trdtl.).
8.47: Violin—Mr. Harry Unwin, "Serenata" (Toselli).
8.52: Baritone—Mr. L. M. Assheton Harbord, "The Drum Major" (Newton).
8.58: Weather report and station notices.
9.0: Contralto—Mrs. Daisy Basham, (a) "Softly Sleeps My Baby" (Needham); (b) "An Irish Lullaby" (Needham).
9.6: Selection—Orchestra, "Medley of Old Time Songs."
9.10: Soprano—Miss Kathleen Ferris, "Indian Love Call" (Friml).
9.14: Novelty piano—Mr. Pat Bell, "Meditation" (Sims).
9.19: Tenor—Mr. G. Austin Blackie, "Dream Boat" (Bagley).
9.24: Novelty trio—Messrs. Bell, Unwin and Brazier, "Pickin' Petals off of Daisies" (Dreyer and Macdonald).
9.29: Tone poem—The Orchestra, "In a Japanese Garden."
9.34: Dance programme by Mr. L. M. Assheton Harbord and His Orchestra.
11.0: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—THURSDAY, JANUARY 22.

- 3.0: Gramophone recital.
3.15: Lecturette—"Dinners and Teas." Talk arranged by the Home Science Extension Service, Otago University.

4.25: Sports results.

5.0: Children's hour.

6.0: Dinner music session.

Reginald King and His Orchestra, "Song o' My Heart" Selection.

Organ—Edward O'Henry, "Dream Lover" (Schertzinger).

Marek Weber and His Orchestra, "Rustle of Spring" (Sinding).

6.15: Band of H.M. Coldstream Guards, "Faust" Selection (Gounod).

Marek Weber and His Orchestra, "Die Fledermaus" Selection.

6.30: Marek Weber and His Orchestra, "The Beggar Student" (Millocker).

Organ—Edward O'Henry, "Just as We Used to Do" (Rulli).

International Novelty Quartet, "Merry Widow Waltz" (Lehar).

6.45: Marek Weber and His Orchestra, "My Darling Waltz" (Waldteufel).

National Symphony Orchestra, "The Barber of Seville" (Rossini).

International Novelty Quartet, "The Veleta" (Morris).

7.0: News session.

7.30: Talk—Mr. W. G. Morrison, "Forestry."

8.0: Chimes. Classical operatic and dance programme.

Instrumental—Studio Octet (Conductor, Harold Beck), Overture, (a)

"Men of Prometheus" (Beethoven); (b) "Farewell to Cucullian"

(arrgd. H. Harty); (c) "Mock Morris Dance" (Grainger).

8.14: Soprano—Miss Frances Hamerton, (a) "The Sandman" (Grant-

Schaefer); (b) "Slumber Song" (Grant-Schaefer); (c) "To-day

My Spinnet" (from "Tom Jones") (German).

Bass—Mr. T. D. Williams, "Tally Ho" (Leoni).

Soprano and tenor—Melodious Duo, "The Frogge and the Mouse."

8.27: Flute—Mr. W. Hay, (a) "Romance in D" (Saint-Saens); (b) "No-

turne, Op. 15, No. 1" (Chopin-Taffanel).

8.37: Mezzo-contralto—Miss Millicent Jennings, (a) "Sing, Happy Birds"

(Liddle); (b) "A Pearl for Every Tear" (Liddle); (c) "The Way

Home" (Liddle).

Tenor—Mr. Russell Sumner, (a) "Madoline" (Allan); (b) "Hey, Ho,

the Wind and the Rain" (Quilter); (c) "Oh, Mistress Mine."

Mezzo-contralto and bass—Melody Duo, "Morning" (Speaks).

8.50: Instrumental—Studio Octet, "Three English Dances" (Cowen), (a)

"Stately Dance," (b) "Rustic Dance," (c) "Graceful Dance."

9.2: Weather forecast and station notices.

The Melodious Quartet, (a) "Down by the Water Willows" (Ayl-

ward); (b) "Five Eyes" (Armstrong-Gibbs); (c) "Daffodils."

Mezzo-contralto—Miss Millicent Jennings, "Be My Comrade True."

Bass—Mr. T. D. Williams, (a) "Money O" (Head); (b) "Bashful Tom."

9.19: Instrumental—Studio Octet, (a) "Minuet Al Antico" (Karganoff); (b)

"Morris Dance" (Noble).

Quintet—The Studio Players, "Meditation" (Bach-Gounod).

9.32: Dance music.

Foxtrots—Lloyd Huntley and His Isle o' Blues Orchestra, "Moaning

for You" (Goulding).

Roger Wolfe Kahn and His Orchestra, "Without a Song."

Colonial Club Orchestra, "It's You I Love" (Davis).

Lloyd Huntley and His Isle o' Blues Orchestra, "Alone in

the Rain" (Goulding).

Colonial Club Orchestra, "Why?" (Davis).

9.45: Duet—Billy Murray and Walter Scanlan, "Shut the Door" (Ives).

Foxtrots—The A. and P. Gypsies, "South Sea Rose" (Gilbert).

Roger Wolfe Kahn and His Orchestra, "Great Day" (Rose).

The A. and P. Gypsies, "Only the Girl" (Ruby).

9.57: Waltz—Hal Kemp and His Orchestra, "Romance" (Leslie).

Foxtrots—Herman Waldman and His Orchestra, "Marbles" (Conicas).

Hal Kemp and His Orchestra, "Navy Blues" (Turk-Ahlert).

Benny Meroff and His Orchestra, "The Talk of the Town."

Colonial Club Orchestra, "March of the Old Guard."

10.12: Vocal—Frances Williams, "Bigger and better Than Ever" (Friend).

Foxtrots—Colonial Club Orchestra, "Sweetheart, We Need Each Other."

Herman Waldman and His Orchestra, "Waiting" (Gardner).

Ben Bernie and His Orchestra, "What Is This Thing

Called Love?" (Cele-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).

Benny Meroff and His Orchestra, "Happy Days are Here

Again" (Ager).

Ray Miller and His Orchestra, "Finesse" (Maltin Doll).

10.36: Duet—Billy Murray and Walter Scanlan, "Sergeant Flagg and Ser-

geant Quirt" (Klein).

Foxtrots—Colonial Club Orchestra, "Charming" (Grey).

Ben Bernie and His Orchestra, "She's Such a Comfort to

Me" (Furber).

10.48: Waltz—Lloyd Huntley and His Isle o' Blues Orchestra, "Molly."

Foxtrots—Ray Miller and His Orchestra, "My Victory" (Miller).

Al Goodman and His Orchestra, "M-a-r-y" (Gordon).

Ray Miller and His Orchestra, "Blue Butterfly" (Tucker).

Al Goodman and His Orchestra, "Lonesome Little Doll."

11.0: God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—THURSDAY, JANUARY 22.

SILENT DAY.

Friday, January 23

1YA, AUCKLAND (900 KILOCYCLES)—FRIDAY, JANUARY 23.

3.0: Selected gramophone recordings.

3.30: Literary selection.

5.0: Children's session, conducted by "Nod" and "Aunt Jean."

6.0: Dinner music session.

Paul Godwin's Orchestra, "Musical Panorama Medley" (Lincke);

"Birthday Serenade" (Lincke).

6.15: Paul Godwin's Orchestra, "The Spider" Intermezzo (Klose);

"Tonerna" (Sjoberg); "Wedding Serenade" (Klose); "Butterfly

Intermezzo" (Schenk).

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

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

Vienna Schrammel Quartet, "Firefly's Appointment" (Siede).

6.45: Paul Godwin's Orchestra, "Medley Memorial of Strauss' Waltzes"

Vienna Schrammel Quartet, "Serenade" (Heykens).

7.0: News and market reports.

8.0: Chimes. Overture—Concertgebouw Orchestra, "Anacreon" Overture.

8.18: Vocal—The Smithson Trio: Tenor solo, "Sound the Alarm" (Handel);

duet, "Miserere Scene" (from "Il Trovatore") (Verdi); soprano

solo, "Someday" (Friml).

8.24: March—Miller's Banjo Quartet, "Stars and Stripes" (Sousa).

Waltz—Love's Shrine" (Seigel); march, "Kansas City" (Black);

waltz, "Keep a Song in Your Heart" (Cowers-Haines); march,

"Boston Ideal."

8.39: Boy soprano—Master Desmond Casey, (a) "The Lass with the Deli-

cate Air" (Arne); (b) "Birth of Morn" (Leonie); (c) "The Kerry

Dance" (Molloy); (d) "Country Folk" (Brahe).

8.51: Selection—Band of H.M. Grenadier Guards, "Regimental March

Medley."

8.59: Evening weather forecast and announcements.

9.1: Piano—Mr. Cyril Towsey, (a) "Automne" (Chaminade); (b) "Pierette"

(Chaminade); (c) "Danse Creole" (Chaminade).

9.15: Recital—Miss Nina Scott, (a) "A Bunch of Roses" (Patterson); (b)

"After Marriage" (Anon.); (c) "The Ballad of Splendid Silence."

9.27: Concertina—Mr. Robert McKnight, (a) "Lustspiel Overture" (Kela

Bela); (b) "Serenade" (Schubert—arr. Warren); (c) "Flashlight

March" (Ellis).

9.39: Vocal—The Smithson Trio: Baritone, "Adelai" (Spirin); yodeling

solo, trio, "Harmony Melodies" (arrgd. Smithson).

9.50: Cello—Pablo Casals, "Melody in E Flat" (Tschalkowsky).

Selection—Herman Finck's Orchestra, "Waldteufel Memories."

God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—FRIDAY, JANUARY 23.

3.0: Chimes. Selected gramophone recordings.

3.30 and 4.30: Sporting results to hand.

4.55: Close down.

5.0: Children's session, conducted by Uncle Jim and the Story Book Lady.

6.0: Dinner music session.

New Mayfair Orchestra, "Lilac Time" (Schubert).

San Francisco Symphony Orchestra, (a) "Serenade" (Moszkowski);

(b) "Aubade" (Auber).

6.14: Tacet.

6.15: Creator's Band, "Semiramide" Overture (Rossini).

New Light Symphony Orchestra, "Spanish Serenade" (Bizet); "Nar-

cissus" (Nevin).

6.29: Tacet.

6.30: San Francisco Symphony Orchestra, "Liebeslied" (Kreisler); "Valse

de Concert" (Glazounov).

New Light Symphony Orchestra, "Spring Song" (Mendelssohn).

3.44: Tacet.

6.45: National Symphony Orchestra, "William Tell" Overture (Rossini).

New Light Symphony Orchestra, "Spanish Dance, No. 1" (Moszkowski)

6.58: Tacet.

7.0: News session, market reports and sports results.

8.0: Chimes.

Note.—This programme is subject to interruption to permit of a

Sound Film Feature from the Majestic Theatre.

Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Sounds

from the Sunny South" (Inseman).

Selection—"Stop Flirting" (Gershwin).

Entertainers—Miss Maisie Oakes and Mr. Will McKeon, (a) "Opening

Chorus" (Original); Song (b) "You've Got to Learn to Smile"

(O'Hagan); Humour (c) "Peace and Riot" (Robbins); Sketch

(d) "Blossom's Film Scenario" (Henry and Reeve).

Novelty instrumental—White Coon Novelty Trio, (a) "Buck and

Wing" (H. Rodger); (b) "Irish Airs" (Collins); (c) "Old English

Airs" (Clapperton); (d) "Home Boys" (arrgt.).

Soubrette—Mrs. M. Lightbody, (a) "The Little Sun Bonnet" (Hem-

ery); (b) "Catch Me" (Cooper).

Selection—Orchestra, "Shamrock" (Myddleton); "Street Singers."

Weather report and station notices.

Entertainers—Miss Maisie Oakes and Mr. Will McKeon, monologue,

(a) "He Did" (Newman and Pardoe); Humour (b) "Pity the

Architect" (Garland); Sketch (c) "The Favour" (Longstaffe).

Violin—Naoum Blinder, "Caprice Viennois" (Kreisler).

- Selection—Orchestra, "Firefly" (Frml); Foxtrot, "Under the Texas Moon" (Perkins).
Dance programme.
- 9.30: Foxtrots—Jesse Stafford and His Orchestra, "I'm Sailing on a Sunbeam" (Dreyer); "Ragamuffin Romeo" (de Costa); "A Bench in the Park" (Yellen).
- 9.39: Waltzes—The Thematics Orchestra, "Giovanna" (Kountz).
Regent Club Orchestra, "The Moonlight Reminds Me of You."
Vocal—Marion Harris, "Wasn't It Nice?" (Young).
- 9.48: Foxtrots—Colonial Club Orchestra, "It's You I Love" (Davis).
Jack Denny and His Mount Royal Hotel Orchestra, "Whippoorwill" (de Voll).
- 9.57: Foxtrots—Meyer Davis' Hotel Astor Orchestra, "Blue is the Night."
Colonial Club Orchestra, "Why?" (Davis).
Jesse Stafford and His Orchestra, "I'm Following You."
Waltzes—Regent Club Orchestra, "Dancing With the Tears in My Eyes" (Dubin, Burke).
Castlewood Marimba Band, "My Heart Belongs to the Girl Who Belongs to Somebody Else" (Sherman).
- 10.12: Foxtrots—Hal Kemp and His Orchestra, "Give Yourself a Pat on the Back" (Butler).
Tom Gerun and His Orchestra, "Absence Makes the Heart Grow Fonder" (Lewis).
Bob Haring and His Orchestra, "I Still Remember."
Tom Clines and His Music, "Wasn't It Nice?" (Young).
Colonial Club Orchestra, "Stein Song" (Colcord).
- Waltz—Castlewood Marimba Band, "Down the River of Golden Dreams" (Klenner, Shilkret).
- 10.30: Foxtrots—Meyer Davis' Hotel Astor Orchestra, "Nobody Cares If I'm Blue" (Clarke).
Hal Kemp and His Orchestra, "If I Had a Girl Like You."
Meyer Davis' Hotel Astor Orchestra, "Ro-Ro-Rollin' Along."
- 10.39: Vocal duet—Al and Pete, "That's Why I'm Jealous of You" (Rose).
- 10.42: Foxtrots—Tom Clines and His Music, "You Darlin'" (Woods).
Jack Denny and His Mount Royal Hotel Orchestra, "Dream Avenue" (Tobias).
Tom Clines and His Music, "You for Me" (Jason); "Be Careful With Those Eyes" (Woods).
- 10.54: Waltzes—Castlewood Marimba Band, "My Reveries" (White).
Regent Club Orchestra, "Because There's a Change in You."
- 11.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—FRIDAY, JANUARY 23.

- 3.0 : Gramophone recital.
4.25: Sports results.
4.30: Close down.
5.0 : Children's hour.
6.0 : Dinner session.
Military Band (of specially selected musicians), "Ever or Never."
Sir Hamilton Harty conducting the Halle Orchestra, "An Irish Symphony—Scherzo" (Sir Hamilton Harty).
New Concert Orchestra, "Life in Vienna" (Karl Komzak).
- 6.14: Tacet.
- 6.15: New Concert Orchestra, "Life in Vienna" (Karl Komzak).
Military Band (of specially selected musicians), "The Guards' Patrol."
Dinicu and His Orchestra, "Crepuscle Tango" (Bianco).
- 6.29: Tacet.
- 6.30: J. H. Squire's Celeste Octet, "Traume" (Wagner).
Gustav Holst, conducting the London Symphony Orchestra, "Marching Song" (Gustav Holst).
J. H. Squire's Celeste Octet, "Albumbblatt" (Wagner).
The Elite Dance Orchestra, "In Elner Konditorei Tango" (Raymond).
- 6.44: Tacet.
- 6.45: Regimental Band of H.M. Grenadier Guards, "Sylvia Ballet" (Delibes);
(a) "Valse Lente"; (b) "Pizzicato"; (c) "Barcarolle"; (d) "March."
Halle Orchestra, "Londonderry Air" (Hamilton Harty).
- 6.57: Tacet.
- 7.0 : News session.
7.30: Dialogue—Messrs. D. Cossgrove and W. Melbourne, "Radio Service."
8.0 : Chimes.
- Selection—Finck's Orchestra, "Gaiety Echoes" (Caryll-Monckton).
- 8.8 : Baritone—Mr. Fred. A. Bullock, (a) "Fill a Glass with Golden Wine" (Quilter); (b) "Ships of Arcady" (Head).
- 8.14: Violin—Miss Irene Morris, "Chanson Napolitaine" (D'Ambrosio).
- 8.17: Popular jazz songs—Mr. Cheslyn J. O'Connor, "Painting the Clouds with Sunshine" (Burke).
- 8.20: Cello—W. H. Squire, "Spinning Wheel" (Dunkler).
- 8.24: Soprano—Miss Cicely Audibert, (a) "Madrigale" (Chaminade); (b) "Farewell, My Love, Farewell" (Lehar).
- 8.29: Broadcasting Trio, (a) "Love Song" (Flegler); (b) "Serenade" (Czerwony); (c) "Rondo Alla Turca" (Mozart).
- 8.39: Tenor—Mr. J. Haydn Williams, "Nirvana" (Adams).
- 8.43: Selection—Australian Commonwealth Band, "The Switchback."
- 8.46: Contralto—Miss Eileen Irwin, (a) "Lie There My Lute" (McCunn); (b) "Heart of Gold" (Manney).
- 8.51: Humour—Mr. B. Goodland, "How to Enjoy the Theatre."
- 9.1 : Weather forecast and station notices.
- 9.3 : Selection—Ketelbey's Concert Orchestra, "The Clock and the Dresden Figures" (Ketelbey).

- 9.7 : Baritone—Mr. Fred. A. Bullock, (a) "Drake's Drum" (Stanford); (b) "To-morrow" (Keel).
- 9.13: Violin—Miss Irene Morris, "La Fileuse" (Carl-Bohm).
- 9.16: Soprano—Miss Cicely Audibert, (a) "Open Thy Blue Eyes" (Masset); (b) "I Wonder if Love is a Dream" (Forster).
- 9.22: Guitar—Norman Clark and His South Sea Islanders, "Goodbye Hawaii" (Bories).
- 9.25: Tenor—Mr. J. Haydn Williams, (a) "Mate o' Mine" (Ellott); (b) "Thanks Be to God" (Dickson); (c) "Mignonette" (Harris).
- 9.31: Instrumental—Broadcasting Trio, (a) "A La Bien Aimee" (Waltz); (b) "Rondo Finale" (Reiseger).
- 9.44: Contralto—Miss Eileen Irwin, (a) "The Harvester's Night Song" (Baynton-Power); (b) "Homage" (del Riego).
- 9.49: Organ—Francis W. Sutton, "Introduction and Menuet" (from "Suite Golliques") (Boellman).
- 9.55: Popular jazz songs—Mr. Cheslyn J. O'Connor, (a) "High Society Blues" (Hanley); (b) "Tip-toe Thru' the Tulips" (Burke).
- 10.0 : Selection—Australian Commonwealth Band, "Titlarks" (Ord Hume).
- 10.2 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—FRIDAY, JANUARY 23.

- 3.0 : Selected recordings.
5.0 : Children's session, conducted by "Big Brother Bill."
6.0 : Dinner music:
Bohemian Orchestra, "Love and Life in Vienna" (Komzak).
Organ—G. T. Pattman, "Alice, Where Art Thou?" (traditional).
Bruno Walter and Berlin Philharmonic Orchestra, "Roses of the South" (Strauss).
- 6.15: Band of H.M. Grenadier Guards, "Ivanhoe" Selection (Sullivan).
Edith Lorand's Orchestra, "Venetian Barcarolle" (Leoncavallo).
Bohemian Orchestra, "Destiny Waltz" (Baynes).
- 6.30: Edith Lorand's Orchestra, "La Serenade" (Metra).
Plaza Theatre Orchestra, "A La Gavotte" (Finck).
Dajos Bela Orchestra, "Schatz Waltz" ("The Gipsy Baron"—Strauss).
J. H. Squire's Celeste Octet, "La Serenata" (Braga).
- 6.45: Dajos Bela Orchestra, "Moonlight on the Alster" (Fetras).
Plaza Theatre Orchestra, "Minuet" (Finck).
Organ—G. T. Pattman, "Cinderella Waltz" (Pattman).
J. H. Squire's Celeste Octet, "Serenade" (Titl).
- 7.0 : News session.
8.0 : Chimes. Selection, National Military Band, "Flying Dutchman."
Valse—International Novelty Quartet, "Over the Waves" (Rosas).
- 8.13: Choruses—Mr. O. L. Garden and chorus, "Sea Shanties" (traditional).
- 8.20: Bass—Mr. F. C. Cooper, "Shipmates o' Mine" (Sanderson).
- 8.24: Accordion—Jean Devey, "In a Persian Market" (Ketelbey).
- 8.30: Choruses—Mr. O. L. Garden and chorus, "Sea Shanties No. 2" (tradl.).
- 8.37: Mezzo-soprano—Miss Isa Duff, "Kentucky Babe" (Buch).
- 8.45: Selection—International Novelty Orchestra, (a) "Emperor Waltz" (Strauss); (b) "Gold and Silver" (Lehar).
- 8.51: Tenor—Mr. O. L. Garden, "Duna" (McGill).
- Bass-baritone—Mr. William Ruffell, "Fishermen of England."
- 8.59: Weather report and station notices.
- 9.1 : Presentation of the British drama "Up Stream" (Bax), produced by Major F. H. Lampen. Scene: San Antonio, up the Amazon River. Time: January 10, 1876, and January 11, 1876. Characters: George Gillespie (48), chief engineer of an expedition for the opening up of Bolivia; Henry Hooker (26), a small, insignificant, irresolute man, one of Gillespie's engineers; Jonathan Wise (50), doctor; Rudolph Gottman (33), clerk to Gillespie; Arthur Wyatt (26), naturalist; Garcia Soriano (52), a Brazilian engineer; Gilda (20), ward of Gillespie, a Spanish-American. Players: Major F. H. Lampen, Mr. J. B. McConnell, Mr. E. W. Robbins, Mr. O. L. Garden, Mr. D. Wrathall, Mr. William Ruffell, Miss Isa Duff. Act 1.—Scene: Interior of the general store at San Antonio. Act 2.—Scene: In the forest, towards midnight. Act 3.—Scene: Gillespie's general store, as in Act 1.
- 10.15: Marching song—National Military Band, "Three Musketeers."
- 10.18: God save the King.

Saturday, January 24

1YA, AUCKLAND (900 KILOCYCLES)—SATURDAY, JANUARY 24.

- 3.0 : Gramophone recital.
3.30: Literary selection and further gramophone recordings.
5.0 : Children's session, conducted by "Cinderella."
6.0 : Dinner session:
New Mayfair Orchestra, "Follow Through" Selection (De Sylva).
Cello—Pablo Casals, "Spanish Dance" (Granados).
Novelty Orchestra, "Ginger Snaps" (Bourdon).
- 6.15: Victoria Orchestra, "La Serenata" (Metra).
Kirilloff's Balalaika Orchestra, "Medley of Old-Time Songs."
Organ—Jesse Crawford, "How Am I to Know?" (Parker-King).
- 6.30: Vienna Philharmonic Orchestra, "Die Fledermaus" (Du Und Du).
Organ—Jesse Crawford, "I'll Close My Eyes to the Rest of the World."
Novelty Orchestra, "Midnight Bells" (Heuberger).
- 6.45: Novelty Orchestra, "Passion Rose" (Lehar).
Victoria Orchestra, "Espanita" (Rosey).
Cello—Pablo Casals, "Vito" (Spanish Dance), Op. 54, No. 5 (Popper).
Novelty Orchestra, "Danse Bagatelle" (Bourdon).

- 7.0 : News and market reports.
 8.0 : Chimes. A special programme to commemorate the Birthday of Robert Burns.
 March—Auckland and District Highland Pipe Band, "The Brown-Haired Maiden," "Jenny's Bawbee," "A Man's a Man for a' That" (all arr. Logan), "Dovecote Park" (Braidwood).
 Strathspey—Highland Pipe Band, "The Braes of Tullymet."
 8.12: Soprano—Miss Reta MacCullay, (a) "Ye Banks and Braes," (b) "Last May a Braw Wooer," (c) "Summer is a Pleasant Time," (d) "Comin' Through the Rye" (all by Burns).
 8.23: Selection—Reg. Morgan and His Orchestra, "The Thistle" (Middleton).
 8.31: Humorous song—Sandy Mack, "Inverary" (McIntosh).
 8.41: Presentation of a recording by the Right Hon. J. Ramsay MacDonald, M.P., Prime Minister of the United Kingdom, in a speech, "Robert Burns—a man amongst men."
 8.49: Violin—Mr. G. Fowler, "Molly on the Shore" (Grainger).
 Reg. Morgan and His Orchestra, "Scotch Medley" (arr. Morgan).
 9.0 : Evening weather forecast and announcements.
 9.2 : Reel—Auckland and District Highland Pipe Band, "Tail Toddle" (arr. Robertson); Retreat, "Toughal Harbour" (MS.); March, "My Love, She's but a Lassie Yet" (arr. Henderson); Strathspey, "Mun-lochy Briggs" (arr. Glen); Reel, "Jock Wilson's Ball."
 9.13: Tenor—Mr. A. L. MacPherson, (a) "Gae Bring tae Me a Pint o' Wine" (Burns), (b) "A Man's a Man for a' That" (Burns).
 9.20: Saxophone—Mr. C. Hoffman, "Sax a Gin" (Wiedoeft).
 Foxtrot—Reg. Morgan's Orchestra, (a) "Where the Daffodils Grow" (Archer), (b) "A Little Kiss Each Morning" (Stothart).
 9.29: Gramophone lecture-recital—Mr. Karl Atkinson, "A Scottish Half-hour."
 9.59: Programme of dance music by Reg. Morgan and His Orchestra.
 11.0 : God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SATURDAY, JANUARY 24.

- 12.0 : Results of the Wellington Racing Club's Summer meeting interspersed with selected gramophone items.
 5.0 : Children's session.
 6.0 : Dinner music session.
 March—American Legion Band, "The Conqueror" (Teike).
 Selection—Savoy Orpheans, "Lido Lady" (Rodgers).
 6.15: New Light Symphony Orchestra, "Rustic Wedding Symphony."
 Victor Olof Sextet, "To a Water Lily" (Macdowell).
 New Light Symphony Orchestra, "Spanish Dance" (Moszkowski).
 Organ—Reginald Foort, "Just Like a Darby and Joan" (Gilbert).
 6.30: Jack Hylton's Orchestra, "The Selfish Giant" (Coates).
 Victor Olof Sextet, (a) "To a Wild Rose"; (b) "In Autumn."
 Violin and organ—De Groot and Terence Casey, "Parted" (Tosti).
 6.45: Victor Symphony Orchestra, "Dance of the Hours" (Ponchielli).
 Organ—Reginald Foort, "Love Lies" (Kellard).
 March—American Legion Band, "Iowa Corn Song" (arr. Beeston).
 7.0 : News session, market reports and sports results.
 8.0 : Chimes. Relay from the Caledonian Hall of Scottish concert arranged by Mr. George Stark, and provided by the Wellington Caledonian Society, assisted by Mr. M. T. Dixon and the 2YA Salon Orchestra, to celebrate the Anniversary of the Birthday of Robert Burns.
 10.0 : Dance programme.
 Foxtrots—Arcadians Dance Orchestra, "Dreamy Honolulu."
 New Mayfair Dance Orchestra, "The Doll's House."
 Arcadians Dance Orchestra, "San Sebastian" (Levy).
 10.9 : Waltz—Alfredo's Band, "I Love You, I Hate You."
 Foxtrots—George Olsen and His Music, "The Song of the Dawn."
 The Blue Jays, "Sing, You Sinners" (Coslow).
 10.18: Vocal Novelty—Walter Miller, "The Clatter of the Clogs" (Flynn).
 10.21: Foxtrots—Harry Hudson's Melody Men, "The Woman in the Shoe."
 Alfredo's Band, "Watching My Dreams Go By" (Dubin).
 Harry Hudson's Melody Men, "The Harlequinade."
 10.30: Waltzes—New Mayfair Dance Orchestra, "Eleanor" (Hanley).
 George Olsen and His Music, "It Happened in Monterey."
 Foxtrots—The Blue Jays, "Why?" (Coslow).
 Alfredo and His Band, "Puttin' on the Ritz" (Berlin).
 10.42: Vocal novelty—Walter Miller, "Harmonica Harry" (Phil Baxter).
 Tango—Radio Melody Boys, "Here In My Heart" (Fields).
 10.48: Foxtrots—Leo Reisman and His Orchestra, "Happy Feet" (Yellen).
 Radio Melody Boys, "Exactly Like You" (Fields).
 Leo Reisman and His Orchestra, "I Like To Do Things For You" (Yellen).
 Tom Gerun and His Orchestra, "Dream Lover" (Grey).
 11.0 : Sporting summary.
 11.10: God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SATURDAY, JANUARY 24.

- 3.0 : Gramophone recital.
 4.25: Sports results.
 5.0 : Children's hour, conducted by Aunt Pat.
 6.0 : Dinner session. Dajos Bela Orchestra, (a) "Sulamith" (Hansen-Milde), (b) "Mignonette" (Nicholls), (c) "Eldgaffeln" (Landen).
 6.15: Frank Westfield's Orchestra, "Classica" (arr. Tilsley).
 Organ—Sigmund Krumgold, "Indian Love Call" (Friml).
 Dajos Bela Orchestra, "You, Only You" (Arnold).
 6.30: Raie Da Costa Ensemble, "Funny Face" (Gershwin).
 Dajos Bela Orchestra, "The Sphinx" (Popy).
 6.45: Orchestra Mascotte, (a) "The Flowers' Dream" (Translateur), (b) "Whispering of the Flowers" (Von Bloom).

Organ—Sigmund Krumgold, "Gypsy Love Song" (Herbert).
 Dajos Bela Orchestra, "Electric Girl" (Helmurgh-Holmes).

- 7.0 : News session.
 7.30: Sports results.
 8.0 : Chimes. Vaudeville and Dance Programme with items contributed by the Caledonian Pipe Band, in commemoration of the Anniversary of Robert Burns' Birthday.
 Overture—Berlin Philharmonic Orchestra, "Carnaval Romain."
 8.8 : March—Pipe Band (Conductor Pipe-Major Gibson) "Neil Gow."
 Slow air—Pipe Band, "Ye Banks and Braes" (trdtl.).
 8.14: Tenor—Mr. James Shaw (a) "My Love is Like a Red, Red Rose" (Burns), (b) "Of A' The Airts the Winds Can Blow" (Marshall) (c) "To Mary in Heaven" (Burns), (d) "Scots Wha Hae."
 8.26: Selection—Hylton's Orchestra, "Good Old Songs."
 8.34: Humour in song and story—Mr. Jock Lockhart, introducing: (a) "That's How I Like 'Em" (Weston Lee), (b) "Flower of the Heather" (Lauder).
 8.46: March—Caledonian Pipe Quartet, "Lord Alexander Kennedy."
 Strathspey—Caledonian Pipe Quartet, "Marquis of Tullibardine."
 8.51: Selection—New Light Symphony Orchestra, "Hearts and Flowers" (Tobani), "The Glow Worm Idyll" (Lincke).
 9.0 : Weather Forecast and Station Notices.
 9.2 : March—Pipe Band, (a) "The Blue Bonnets Are Over the Border" (arr. Logan), (b) "Piob Phor" (arr. Logan).
 Pipe solo—Pipe-Major Gibson, (a) "The Highland Soldier," (b) "Jeannie's Black E'e" (all by Logan), (c) "Rowan Tree" (trdtl.).
 9.15: Mezzo-contralto—Mrs. Anita Ledsham, (a) "Ma Nannie's Awa" (Burns), (b) "Braw Lads o' Gala Water" (Burns), (c) "O Whus-tle and I'll Come tae Ye, Ma Lad" (Burns).
 9.27: Banjo duet with piano—Banjos: Misses M. Bell and I. Boyd, piano: Mrs. Louis Bloy, (a) "Tickling the Banjo" (Morris), (b) "Snatches of Song" (Grimshaw).
 9.40: Humour—Mr. H. Instone, (a) "The Scotch Spirit" (Anon.), (b) "Antonio Beppo" (Anon.).
 9.49: Pipe Band, (a) March, "My Love She's but a Lassie Yet," (b) Strathspey, "Marquis of Huntley," (c) "High Road to Linton," (d) March "Captain Oldfield's Welcome to Kilravock Castle."
 10.0 : Dance Music.
 Foxtrots—Leo Reisman and His Orchestra, "Puttin' on the Ritz."
 Jack Hylton's Orchestra, "Punch and Judy Show" (Black).
 Gus Arnheim and His Orchestra, "Dancing To Save Your Sole" (Gilbert).
 Jack Hylton and His Orchestra, "Jollity Farm" (Sarony).
 10.12: Waltz—Ted Fiorito and His Orchestra, "Molly" (Goulding).
 Foxtrots—The Rhythmic Eight, "Fairly on the Clock" (Myers).
 Jack Hylton and His Orchestra, "The Kerb Step" (Young).
 10.21: Vocal duet—Esther Coleman and Foster Richardson, "The Voyagers."
 10.24: Foxtrots—Victor Arden, Phil Ohman and Their Orchestra, "I Love You So Much" (Kalmar, Ruby).
 Coon-Sanders Orchestra, "Moanin' For You" (Goulding).
 Victor Arden, Phil Ohman and Their Orchestra, "Dancing the Devil Away" (Harbach).
 10.33: Waltz—Arcadians Dance Orchestra, "Melody Divine" (Ruby).
 Foxtrots—Bernie Cummins and His Hotel New Yorker Orchestra, "Minnie the Mermaid" (de Sylva).
 Arcadians Dance Orchestra, "Evening Shadows" (Polla).
 Ted Weems and His Orchestra, "Mysterious Mose."
 10.45: Vocal duet—Esther Coleman and Foster Richardson, "Mountain Lovers" (Squire).
 10.48: Foxtrots—The Rhythmic Eight, "Sweethearts' Holiday" (Kahal).
 Nat Shilkret and His Orchestra, "Singing a Vagabond Song" (Richman).
 Jack Hylton and His Orchestra, "On Her Doorstep Last Night" (Hargreaves).
 Gus Arnheim and His Orchestra, "All I Want Is Just One."
 11.0 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SATURDAY, JANUARY 24.

- 3.0 : Selected gramophone recordings.
 5.0 : Children's hour, conducted by Uncle Sambo.
 6.0 : Dinner music 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).
 Organ—G. T. Pattman, "Cherie Waltz" (Valentine).
 6.15: Court Symphony Orchestra, "The Gondoliers" (Sullivan).
 Paul Whiteman's Orchestra, "Gypsy" (Gilbert).
 6.30: Albert Sandler's Orchestra, "Chalita" (Schertzing).
 Padilla's Marimba Serenaders, "Paree" (Padilla).
 Piano—Gil Dech, "Sometimes I'm Happy" (Youmans).
 Royal Serbian Tambouritz Orchestra, "Serbian Melody."
 6.45: Intermezzo—Ketelbey's Orchestra, "Bells Across the Meadow."
 Rio Marimba Serenaders, "Dolores" Waltz (Waldteufel).
 Organ—G. T. Pattman, "Worryin' Waltz" (Fairman).
 March—National Military Band, "Stars and Stripes" (Souza).
 7.0 : News session.
 8.0 : Relay from His Majesty's Theatre, Dunedin, of Burns' Anniversary Concert by the Dunedin Burns Club. Artists include "The Idlers" Male Quartet, Mrs. Wilfred Andrews (contralto), Mr. Arthur MacDonald (baritone), Pianiste, Mrs. Arthur Newey.

10.0 : Dance session.

Foxtrots—Ben Selvin and His Orchestra, "The Rogue Song" (Stothart).
Stellar Dance Band, "Harmony Heaven" (Vincent).
Paul Tremaine and His Orchestra, "There's One More River to Cross."

Waltz—Guy Lombardo and His Royal Canadians, "Lazy Louisiana Moon" (Donaldson).

10.12 : Foxtrots—Rhythmic Troubadours, "Without You, Emaline" (de Rose); "You're the Sweetest Girl" (Lombardo).

Guy Lombardo and His Royal Canadians, "Where the Golden Daffodils Grow" (Archer).

10.21 : Vocal—Art Leonard, "Ten, Twenty, Thirty Years Ago" (O'Hagen).

10.24 : Foxtrots—Ipana Troubadours, "Blue is the Night" (Fisher).
Rhythmic Troubadours, "I'm in the Market for You."
Ipana Troubadours, "Whip-poor-will" (de Voll).

10.33 : Waltzes—Stellar Dance Band, "I'll Always be Dreaming of Mary." The Columbia Photo Players, "Dream Lover" (Waltz).

Foxtrots—Ben Selvin and His Orchestra, "When I'm Looking at You."
Rhythmic Troubadours, "My Future Just Passed" (Whiting).

10.45 : Vocal—Art Leonard, "Around the Corner" (Kahn).

10.48 : Foxtrots—Paul Tremaine and His Orchestra, "Swing Low, Sweet Chariot" (arrgd. Paul Tremaine).

Fred Rich and His Orchestra, "For You" (Roemheld).

The Columbia Photo Players, "My Love Parade."

Fred Rich and His Orchestra, "Dream Avenue" (Richman).

11.0 : God save the King.

Sunday, January 25.

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, JANUARY 25.

3.0 : Selected gramophone recordings.

3.30 : Literary selection.

6.0 : Children's song service, conducted by Uncle Bert.

6.55 : Relay of Divine Service, Beresford Street Congregational Church.
Preacher, Rev. Albert V. Whiting. Choirmaster, Mr. William Gemmell. Organist, Mr. Arthur Cherry.

8.30 : (approx.) Relay from Albert Park of concert by the Auckland Municipal Band, under the conductorship of Mr. George Buckley.

9.30 : (approx.) God save the King.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, JANUARY 25.

3.0 to 4.30 : Gramophone records.

6.0 : Children's Song Service, conducted by Uncle George, assisted by the Children's Choir from St. Matthew's Anglican Church.

6.45 : Gramophone recordings.

7.0 : Relay of Evening Service from St. Thomas's Anglican Church, Wellington South. Preacher, Rev. C. V. Rooke. Organist and Choirmaster, Mr. W. A. Gatheridge.

8.15 : (approx.) Studio concert.

Overture—2YA Orchestra (Conductor, Signor A. P. Truda), "Semi-ramide" (Rossini); "Brahmsiana" (arrgd. Jungey).

Contralto—Miss Evelyn Robinson, (a) "Silent Noon" (Vaughan Williams); (b) "O, Could I but Express in Song" (Malashkin).

Piano—Mr. L. D. Austin, "Chant Du Voyageur" (Paderewski).

Tenor—Mr. Les Stapp, "My World" (Geehl).

Selection—Orchestra, "Lucia di Lammermoor" (Donizetti).

Soprano—Miss Gwladys Edwardes, (a) "In the Red April Dawn" (Willeby); (b) "After the Grim Daylight" (Willeby).

Weather report and station notices.

Violin—Naqum Blinder, "Variation on a Theme by Corelli" (Kreisler).

Contralto—Miss Evelyn Robinson, "Home Isn't Home Without You."

Suite—Orchestra, "Suite Romantique" (Ketelbey).

Tenor—Mr. Les Stapp, (a) "All the Fun of the Fair" (Martin); (b) "Evensong" (Burman).

Piano—Mr. L. D. Austin, "The Fountain" (L. D. Austin).

Selection—Orchestra, "In the Silence of the Night" (Rachmaninoff).

Soprano—Miss Gwladys Edwardes, (a) "O Lovely Night" (Landon Ronald); (b) "The Dove" (Landon Ronald).

Choral—Don Cossacks Choir, "Save, O Lord, Thy People."

Dance—Orchestra, "Scarf Dance" (Chaminade); valse, "Return of Spring" (Waldteufel).

10.0 : God save the King.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, JANUARY 25.

3.0 : Gramophone recital.

5.30 : Children's Song Service by Children from Presbyterian Sunday Schools.

6.15 : Chimes from studio.

6.30 : Musical recordings from studio.

7.0 : Relay of evening service from St. Andrew's Presbyterian Church.
Preacher, Rev. R. M. Ryburn, M.A. Organist, Mr. R. E. Lake.
Choirmaster, Mr. J. Maclean.

8.15 : (approx.) Relay of programme from 4YA, Dunedin.

9.50 : God save the King.

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, JANUARY 25.

3.0 : Chimes. Selected recordings.

5.30 : Children's Song Service, conducted by Big Brother Bill.

6.15 : Instrumental recordings.

6.45 : Relay of Evening Church Service from Salvation Army Citadel, Dunedin, conducted by Major Bear (Divisional Commandant).

8.15 : Studio concert by the Kaikorai Band, under direction of Mr. T. J. Kirk-Burnand, assisted by 4YA artists.

March—Band, "Simplicity" (Hume); waltz, "The Choristers" (Dowell).
8.26 : Soprano—Miss Freda Elmes, "Jesus, the Very Thought of Thee" (Thiman); "Elegie" (Massenet).

8.32 : Organ—Arthur Meale, "March on a Theme of Handel" (Guilmant); "Pilgrim's Song of Hope" (Batiste).

8.40 : Tenor—Mr. Ernest Drake, "If With All Your Hearts" (Mendelssohn).

8.47 : Grand selection—Band, "Gounod" (Rimmer-Gounod).

9.2 : Weather report and station notices.

9.4 : Selection—Plaza Theatre Orchestra, "Gipsy Suite" (German).

9.20 : Soprano—Miss Freda Elmes, "Romanza El Scena" (Mascagni).

9.28 : Grand selection—Band, "Richard Wagner" (Wagner).

9.34 : Instrumental trio—Fritz and Hugo Kreisler and Michael Raucheisen, (a) "Marche Miniature Viennoise" (Kreisler); (b) "Syncopation."

9.40 : Tenor—Mr. Ernest Drake, "Abide with Me" (Liddle).

9.48 : March—Band, "The Challenge" (Richardson).

9.47 : God save the King.

2YB, NEW PLYMOUTH (1230 KILOCYCLES)—SUNDAY, JANUARY 25.

6.0 : Children's service.

8.15 : Studio concert.

Sending Talkies by Radio

For Home Entertainment

CONSIDERABLE interest has been taken in the possibilities of showing sound films in the home with the aid of radio (writes J. Peers in "Wireless Magazine"). A scheme that has been suggested is to supply films for use on the type of projector now becoming quite popular for home use, which would be run in conjunction with a play broadcast in the usual way that the radio drama is "put on the ether."

The receiver would be operated in the usual manner and at the beginning of the broadcast the projector would be started, the result being a home version of the talkies. The sound, however, would be received through the loudspeaker and not from reproduced sound records on wax or film, as is, of course, the usual principle of operation.

Due precautions would have to be taken to ensure synchronisation between the actors before the microphone and the listener working his home projector, preferably by some sort of automatic control gear.

The idea, however, is by no means new. In August, 1925, one of the larger American motion-picture corporations, in co-operation with the broadcast station of one of the Los Angeles newspapers, but over practically an identical stunt.

The two movie stars, who had previously been filmed in the usual way, broadcast the sound accompaniment. Simultaneously, in fifteen picture theatres, crowds sat back in astonishment as they heard through the loudspeakers practically perfectly synchronised words to the lip movements of the two stars they saw on the silver screen before them.

The success of the synchronising, on which, of course, the whole scheme depended, was due to the use of a sixteenth projector in the broadcast studio itself, by means of which the actors

could observe their own actions as being portrayed at the instant in the fifteen picture theatres, and time their speech accordingly.

This projector (which was enclosed in a glass-sided soundproof cabinet to prevent the noise of the machine itself being broadcast), also threw the cues for the actors on the screen.

This machine was motor-driven and set the pace for the other projectors in the various theatres which were hand-operated. Each operator wore headphones through which he received the time-setting cues for the film and for his metronome, by means of which he kept the speed steady and in step with the master machine in the studio.

The results as regards synchronism, taking into consideration the human element in the form of the operators turning the driving handles, were surprisingly good, except in one theatre, where the operator, through nervousness probably or an anxiety to get the job over quickly, wound at an excessive speed. The result was that the voices from the broadcasting artists via the loudspeakers kept on some time after the film had finished, to the delight of the sceptics in the audience.

No attempt was made to stage an elaborate play, the cast consisting of two persons only, who talked, danced to the gramophone, and carried on similar actions. Nevertheless, it afforded a practical example of the probable impression created by the sound and film entertainment we know now by the word "talkies" which had been in the laboratory stage and tentatively tried out with unsatisfactory results for many years before.

KNOW the time all over the world with a
DX Clock.
Posted in Cardboard Tube.
9d. Each.

Treasure Island

(Continued from page 8.)

quarters to the old stockade where there was plenty of water and shelter. The cannon fired by the mutineers who were aboard caused the loss of food and ammunition, but no one was injured.

The stockade was attacked, but the attackers lost more than the defenders, and the odds were now about two to one.

Under the cover of night two persons left the stockade—the doctor, to visit Gunn, and the boy Hawkins on a wild adventure to the ship. This almost cost him his life at the hands of Flint's old gunner, who, though badly wounded in a brawl, was still capable of doing considerable damage. Hawkins cut the ship from its moorings and it drifted out to sea. The wind carried it round the island and by the combined efforts of its two occupants it was brought into another inlet. Once the ship was safe the mutineer tried to do away with the boy, but failed and lost his own life in the attempt.

RETURNING to the stockade, Hawkins stumbled over something which yielded and a shrill voice cut the still night air: "Pieces of eight! Pieces of eight! Pieces of eight!" It was Silver's green parrot, Captain Flint. A mighty oath, followed by "Who goes?" told Jim that he was in the enemy's camp.

"So, here's Jim Hawkins, shiver my timbers! Dropped in like, eh? Well, come, I take that friendly."

And then Hawkins learned what he feared to be for the worse. The stockade had been surrendered and with it the map of the treasure. The party had shifted up among the rocks away from the treacherous marsh.

"They're dead against you, Jim, and unless you start a third company you'll have to join with Captain Silver."

"Let the worst come to the worst. I've seen too many die, it's little I care; kill another and you'll do yourselves no good, or spare me and keep a witness who might help to save you from the gallows."

Among the buccaneers not a one stirred, for they were moved by this utterance of the mere boy.

"It was this same boy that stole the chart from Billy Bones. First and last we've split upon Jim Hawkins," broke in Flint's former quartermaster.

"Then here goes," and one of the ruffianly mob sprang forward drawing his knife, but Silver intervened. The action nearly cost him his command. He was blamed for furthering his own ends and betraying his companions. A council was held, but Silver, as usual, swayed the pirates and was again returned to favour.

The good New Year will reduce prices of Radio and most electric products. You will like advice and ready service. Both are given whether you select at my shop or send your orders by mail. Every thing electrical stocked at the lowest ruling prices.

BOB HORROBIN

Flashlight Corner, 2 Courtenay Pl., WELLINGTON.

Quick Repairs, Phone 22-357.

Behind the Scenes at 1YA

In the Announcer's Room

(By "CALL UP.")

ALTHOUGH the majority of listeners have a superficial knowledge of the work carried out at a radio broadcasting station, not many have ever actually been "behind the scenes," and many of their ideas in regard to the station's working are incorrect. In this little article "Call Up" invites listeners to accompany him into the announcer's room at 1YA.

Opening off the smaller of the two studios at 1YA is a door bearing the sign, "Announcer Only—Strictly No Admission," but we are privileged to enter this sanctum and to introduce ourselves to Mr. Culford Bell, the 1YA station announcer.

After greeting us, he resumes his seat before the microphone at one end of the small, narrow room and then, as an item in the large studio concludes, he announces a gramophone recording and puts the record on. Owing to the special apparatus used, we hear only a muffled noise from the record, although it is playing in the same room, and as listeners cannot hear us, we are free to converse. On either side of the announcer is a glass window looking into the two studios, before him is a desk above which is suspended a loudspeaker, and by his side is the gramophone apparatus. Facing him on the desk is a large switchboard controlling the wires between the studios, announcer's room, and transmission room.

Most of one wall of the little room is taken up with a large rack holding the varied collection of gramophone records necessary for the daily programmes, and opposite this stands the grandfather clock whose chimes are so familiar to listeners to the station. On one wall hangs a big board covered with a most amusing collection of radio jokes and illustrations cut from

different papers. Many a good laugh is stored in the thirty or forty humorous cuttings.

The Announcer's Job.

"**H**OW monotonous!" says the listener in referring to the announcer's job, but according to Mr. Culford Bell, such an opinion is quite wrong. "I cannot afford to even think my job is monotonous," he says, "for if I did my work would betray me. I am always subconsciously aware of the big audience listening to me, and that seems to keep one keyed up. As soon as any monotony was felt carelessness would creep in, and that, of course, would never do."

And so Mr. Bell sounds equally interested whether he is talking about the price of fat pigs, a Beethoven Sonata, a cyclonic depression, or the day's racing results, just to mention a few of the hundred and one subjects with which he has to deal daily.

He has no opportunity to scan much of his material before reading, so he has no idea what dangerous words or sentences may lurk within. If he does strike an outlandish word, such as the names of some of the delegates to the Indian Round Table Conference, he must not hesitate but go boldly at it. In any event, in such a case as this particular one there are few who could contradict him even if his pronunciation were at fault!

The announcer's work is by no means confined to speaking at the "mike." There is a great deal of detail work to be done of which the listener hears nothing—forms and reports to be filled in, copy prepared, records arranged, readings chosen, and many other things. The announcer's job is thus a busy one, and it is certainly not monotonous.

thought so; it's a pointer. Right up there is our line for the Pole Star and the jolly dollars."

But the spirits of the party had been damped, and when suddenly out of the deep forest came an air sung in Flint's voice,

"Fifteen men on the dead man's chest—

Yo-ho-ho, and a bottle of rum!" the party was petrified and showed the signs of utmost fear.

"Fetch aft the rum, Darby!" broke out the voice again.

"That fixes it," gasped someone. "That was Flint's last words. Let's go."

"I'm here to get the stuff, devil or no devil!" cried Silver, and he led the straggling party onward.

"'Twas liker somebody else's voice now," ventured someone, "like—it was liker—"

"Ben Gunn!" roared Silver, "and no one here's frightened of the ghost of Ben Gunn, for I'll warrant he's not alive here more'n Flint."

And away they went in better spirits.

The men rushed ahead, shouted, then were silent, suspiciously so. "Jim, take this," whispered Silver, pressing a double-barrel pistol into the hand of his young follower.

"So, you've changed sides again," someone said as all surveyed the empty boxes that indicated that the treasure had been lifted, but Silver urged them to dig deeper for the pig-nuts. The tide had, however, turned against him. The buccaneers scrambled out of the hole to be faced boldly by man and boy.

"Mates," said the leader who had displaced Silver, "I mean to have the heart of that cup. The other's a cripple. Now, mates,—"

Those were his last words. Three muskets aimed from the undergrowth rang out; and out stepped Gunn and two of the doctor's party. The mutineers were broken.

ONLY explanations and the simple matter of getting under way remained.

When the doctor left the stockade he went to Gunn, who, he learned, had lifted the treasure and stored it in his cave. The now useless chart was handed over to Silver, who allowed the party to shift to the better position in the cave. When the doctor had reported that Hawkins was with the mutineers Gunn and two companions hastened to the place where the treasure had been buried. Gunn outstripped his companions and had delayed the buccaneers by playing upon their superstitious fears, while his two companions had caught up. They had awaited the critical moment to fire upon the party.

ON the homeward journey, Silver, who had naturally not been treated too kindly, escaped to the Mexican Islands, taking with him a small portion of the treasure. Gunn had aided his escape.

"We were not safe with that man with one leg aboard," he explained.

And no one had any complaints to make, for after all the party was cheaply quit of such a dangerous man.

Useful Hints

NEVER drop telephones on to the floor or throw them on to a chair, as apart from the permanent magnets in them being weakened by sudden shocks the diaphragms are easily bent.

VERY often a slight roughness in reproduction can be cured by the simple expedient of connecting a grid leak across the secondary terminal of the audio transformer.

A. J. PARK & SON

Patent Attorneys

Routh's Buildings,

Featherston Street,

WELLINGTON

NOT long ago a woman bought half-a-dozen oysters from a stall on the Blackpool beach. While eating the first one she felt what seemed like a number of small stones in her mouth. Hastily withdrawing them she found to her surprise that she had nearly swallowed nine pearls! One pearl was a quarter of an inch in diameter, and the value of the whole nine proved to be in the vicinity of £30.

AN unusual wedding took place some months ago in a forest near the Avon Valley in England. The bride was a Torquay school teacher and the bridegroom a doctor, both belonging to the Order of Woodcraft Chivalry, and were named "White Lion" and "Brave Desmos" respectively. They were the first couple to be married according to the rites of the order, and the ceremony was extremely picturesque. The members were grouped round a camp fire in a sylvan amphitheatre and the bride dressed in Lincoln green, with a garland on her brow and sandals on her feet. The couple advanced to the fire, stood silent for a moment, then "Desmos" taking the hand of "White Lion" said, "In the sight of God and in the presence of this assembly I take you to be my wife." "White Lion" made a similar vow, and her husband placed a ring on her finger. For musical accompaniment there were the songs of the birds and the tinkling of water on the stones of a near-by brook.

A MOST effective treatment for floors in a country cottage is to paint them, and then, if desired, stencil a pattern on to them. There are two different effects to be obtained with paint—an all-over dappled pattern or the more conventional stencilled border design. For the former it is necessary to paint the floor all over first in one colour, and then before quite dry spray with the second. Two shades of the same colour are most attractive, but if a contrast is wanted the second colour might repeat the predominant tone of curtains and cushions. For stencilled designs it is generally better to choose a bold pattern, such as the Greek key pattern. Use ordinary stencils, but be sure to wipe the backs clean of paint before using again to continue the design. Apply the paint with short stabbing strokes to avoid getting a blurred outline for the motifs. Before beginning be sure that the ground colour of the floor is absolutely dry.

THE powers of electricity as a means of saving unnecessary labour, and of raising the standard of comfort and hygiene in the home, can hardly be exaggerated (says an "Economist" correspondent). Everything in England is to be done to help the householders to install electricity in their homes. There are to be attractive facilities for extended payment, either through the chief wiring contractors or concerns selling electrical appliances and apparatus, or through a finance company, for it is now realised that electricity is a great vehicle of civilisation.

NOW that pineapples are fairly cheap, it is a good opportunity to glaze some for storing. To do this, peel a small pineapple and after removing the "eyes" cut it into cubes. Make a syrup by boiling together for 20 minutes 6oz. lump sugar and a breakfast cupful of water. Then stir in the pineapple and boil for another ten minutes. Remove from the fire and let stand till cold, strain off the juice, spread the fruit on a large dish, and place in a very cool oven till dried. Dip each piece of pineapple into a second and thicker syrup, made by boiling together very quickly 1lb. sugar and one pint of water. See that every side is well coated with hot syrup. Leave on a sieve in a warm room to dry before packing in boxes lined with waxed paper.

SIR CHARLES HOWELL THOMAS, Permanent Secretary to the Ministry of Agriculture and Fisheries, stated in the House of Lords, at the Royal Commission on the Civil Service, that the



environment of some of the works excluded women for posts as inspectors (writes a correspondent to the London "Times"). Sir Charles Howell Thomas continued that it was unwise for women to go to sea as inspectors in trawlers, and that the position of agricultural inspectors was also unsuitable. He further stated that the time had not yet arrived for them, for the farmers would not feel they could talk so freely to women as to men inspectors; he said that if there were more women farmers, and work which up till now had been done by men, was undertaken by women, the opening would be made, and the time then ripe for women inspectors.

EVIDENCE was also given during this same Commission on Civil Service upon "marriage bar," and it was decided that married women should not be debarred from candidature for, or

Thought for the Week

A sense of humour is the most hard-worked and most frequently misapplied phrase in our language. I prefer to regard it as the philosophy of the unbeaten.

N. K. STRANGE
in "Kenya Dawn."

employment in, those professional, scientific and technical classes in which single women may be employed. A woman doctor—Dr. Overton—representing the medical institution, said that the marriage bar should be abolished, because the professional classes took upon themselves a career as men do, and put themselves to considerable expense in qualifying.

IT is interesting to read the views of a German Fascist doctor on modern man's dress. The doctor, who is a leader in the Hitler movement in Berlin, has gone so far as to publish a book on male attire. He considers that the time has come when all good Fascists should cease to adopt the clothing of the bourgeoisie. Certainly, his views on the collar will be heartily endorsed by thousands of suffering males all over the world. "The man of to-morrow," he says, "will have no place for the collar, because it is unnecessary, ugly and unhygienic. It is the symbol of the yoke borne in a decadent era." After that slashing indictment surely even the starchiest of collars will be unable to stand upright.

WE are now having on the market smaller-sized vacuum cleaners at half the price of the full-sized ones, and diminutive electric washing machines which are selling in London at the moderate price of twelve guineas. They will do all that a larger one will do. Ten minutes of circular movement in the washer will cleanse the dirtiest of clothes. Its great advantage is that the movement is gentle, and we can satisfactorily wash woollens, silks and all delicate fabrics.

TO the American in London it comes as something of a surprise to discover that, so far as money is concerned, each of England's colonies is treated as a foreign country. Even coins from the Irish Free State are not legal tender in Britain. In the American colonies, on the contrary, even a dime can buy something for its owner, while in Europe French shopkeepers will generally accept English money. In Holland, both Belgian and English coins are accepted.

ELINOR GLYN, the well-known novelist, has just moved into a new flat, accompanied by her two Persian cats. Miss Glyn has had a "park" specially built for them outside a window, and there they lie basking in what sun there is, reclining in a quilted and silk-lined basket, with cushions to match and a coverlet to tuck round them. They are evidently being brought up on a modified Plunket system.

A NEW schedule of standard sizes for women's dresses and other garments, evolved after 18 months' work by the London Employers' Association, has been adopted by 40 manufacturing firms (writes the "Daily Sketch"). Women will in future be assured that if a size 38 or 42 dress of one maker is a perfect fit, so also will be a dress of the same size made by any of the 39 other makers. The new schedule is based on hip measurement, which has been found the most reliable basis, and the standard sizes range from 36 to 50. Dresses will vary in length according to fashion. More and more manufacturers are adopting the standard size schedule, and it is hoped that it will soon be universally adopted throughout the trade.

DURING the recent Christmas shopping week one could not fail to be struck with the altered methods adopted by women who were obviously buying presents. No longer did they send the shop assistants scurrying after first one and then another pretty, but quite useless article. This year they seemed to realise that in these "so-called" hard times nobody would thank them for objects of art. Every offering would be better appreciated if it could be used, and if it could also be admired, so much the better. Such an attitude of mind is interesting as pointing the way for new methods of house-furnishing. The house of to-morrow will be furnished on a more utilitarian basis, and the glass-fronted cabinets, stuffed with treasures, so dear to our grandparents, will not be granted a place any more than will the bed valances, and heavy-tasselled velvet curtains of the Victorian era. Moreover, lest we should lose our artistic appreciation of the beautiful, even the simplest implements of household use will have to be made pleasing to the eye. In this way it will come about that the economic depression through which we are passing will be rendering a very real service to the future.

THE clever modern girl is always thinking out something to employ her time; if she is in the happy position of not having to earn her own living there is no reason why she should not take up a "professional" hobby. Dressmaking, for those who have the gift is a very fascinating occupation and always a girl can be certain that there will be ample scope to make a livelihood from this work. There are not nearly enough good dressmakers at the present time, and we all know how grateful we feel to a friend who recommends us to a clever dressmaker. Therefore, any girl who has the gift of designing, drawing, doing fine needlework and a love of the beautiful could not do better than taking up as a profession dress-designing. In large houses designers are employed at salaries varying from £5 to £15 a week, but the qualifications have to reach a very high standard of art.

THE news of Rebecca West's marriage will surprise those who remember how that distinguished novelist and feminist used to refer pungently to average English husbands as "perfect nuisances." We can only infer from this that the fortunate man is well above the average—at least, in Miss West's estimation. Which, after all, is quite as it should be. Moreover, it must not be forgotten that on another occasion Miss West said: "Surely, to ask the intellectual women to stand aside and leave marriage to their dependent and sweet sisters who 'need protection' is eugenically unsound? Why should the nation be denied enrichment from these chosen stocks?" So at the age of thirty-seven this brilliant writer is entering on a love romance of her own, and we are sure that the best wishes of all her readers will accompany her.

THERE is always a fascination in putting a penny in a slot machine, whether it is for your weight, chocolate, matches, or a threepenny orange drink. In Berlin you can buy your morning and evening paper this way, but perhaps this would only lead to further unemployment if we had it in New Zealand.

BECAUSE prices are down, there's no reason for trade to be down. Messrs. Crosse and Blackwell, the well-known firm of manufacturers, have reduced many of their standard lines. Since this has been done their business has increased so greatly that they have been compelled to add a night shift to their factory staff. This increased business not only means more people employed in the factories, but it means increased employment among the Welsh tin-plate workers, printers, glass workers and box-makers. This is surely a bright sign though it is in England, but New Zealand considers it follows suit, so here's to our good times, which our factories and manufacturing firms will help to bring about. In business it is policy to look up and not down.

NOW the winds are not quite so ferocious, and the sun is not quite a stranger, the garden shows signs of brightness and colour, and one does not feel quite so disheartened at the thought of all the money spent on plants with very little result. There is really no cheaper way of beautifying one's garden than by raising plants from seeds. It is a method that should be more often adopted by those whose purse feels the pinch when it comes to buying large quantities of nursery plants. Be sure never to transplant the seedlings in clumps, but separate them by about a foot. If the seeds have been planted in a box, it is an excellent plan to place a sheet of perforated paper or coarse muslin over the top before watering; this prevents washing small seeds out of the soil or floating them to one corner.

JUST a word to those who are not very experienced in the use of an electric stove. Everything is very simple. An electric stove needs very little cleaning—that is one of its great charms. A cloth should be kept handy for wiping off anything that may be spilt. In an electric oven the back part cooks more quickly than the front. If you want to cook your cake quickly, put it well back, and if

Old-time Musical Evenings

Popularity Returning

WITH long frocks and long hair, once more in fashion it would appear that also the diversions of our grand-parents are returning to favour. I refer to the resurrection of the once-popular "musical evening," which will doubtless have all the appeal of novelty for the present generation.

Bridge-bored youngsters, already somewhat satiated with the mysteries of wireless and the mechanical precision of the gramophone, are clustering round the old piano singing glees, roundelays, and sea chanties.

Possibly this revival of the musical evening will produce a new type of drawingroom song, suitable for after-dinner singing, and more attuned to modern fancy than the simple ditties of the Victorian age.

you want it to cook slower, draw it forward. If you have a custard to cook, put it in the oven when you have turned off the power, as an electric oven holds the heat for quite half an hour afterward. If a joint is to be roasted, the best formula for time to use is 20 minutes per pound weight of joint and 20 minutes over; and the oven should be switched on for about twenty minutes before the joint is put in. As with the gas stove, there is no teacher like experience, but it is surprising how easily and rapidly one learns to judge the time required to obtain the necessary heats for the different food being cooked.

WITH the advent of the "talkies" the atmosphere of Hollywood is said to have changed completely. To begin with, a different type of actor or actress is required—one with something more than a mere "face value." The day of the "beautiful but dumb" artist has gone, and in their places has arisen a cleverer and more serious crowd, for the success of the talking picture depends largely on the brains of the actors. Curiously enough, salaries are smaller, and whether it is due to this fact or not, there are certainly fewer parties, while the "orgies" of former days are not in evidence. Perhaps this will dissipate the Hollywood mirage which has lured so many English lads and lasses across the Atlantic to try their fortunes at Los Angeles.

MR. ROBERT GRAVES has just had published a sequel to his highly controversial book "Good-bye to All That." In this new book, which is called "But It Still Goes On," the author sets out his ideas of a war from which all mechanicalised fighting is absent: "A duel of hand-to-hand fighting between picked national forces that would be formal, chivalrous and primitive. Weapons should be the simplest possible, standardised after the fashion of bats, golf balls and the like. The weapon could probably be the quarterstaff. The battlefield should be an area of 1000 square miles in a sparsely-inhabited region in a neutral country, with neutral umpires playing the part of mediaeval heralds. Time of action, two or three weeks."

—ALISON.

A Pioneer Woman Doctor

Distinguished Career

DR. MARY SCHARLIEB, who died in London last month at the age of 85, was one of the first women to enter the medical profession.

While in India with her husband she was deeply impressed by the need for medical work among Indian women, and qualified as a doctor at Madras Medical College. Later she took several degrees at London University, and was soon recognised as one of the foremost women doctors. In addition to a long list of academic distinctions, Dame Mary Scharlieb was a distinguished writer on social and medical problems. Moreover, she was a devoted mother to her children, and found time for a great deal of charitable and church work. She was always very feminine and dressed beautifully.

For her services in the war, Dr. Scharlieb was made a Commander of the Order of the British Empire, and later became Dame Commander of the Order. She never spared herself, and was at work almost to the last day of her serene and noble life.

Colourful Furnishings

The Modern Trend

THE tendency for splashes of colour rather than symmetrical designs is noticeable in modern furnishings, especially in carpets and curtains. At one time it used to be considered necessary for geometrical patterns to balance each other, but now they are generally arranged at random.

The new "lightning flash" design of horizontal intersecting streaks in vivid hues is very popular for door or window curtains in tapestry or artificial silk. Carpets are being made in oval or circular shapes and those with a plain centre have usually a border of several shades in a contrasting colour, deepening to the edge of the carpet.

Mushrooms About

Recipe for Ketchup

JUST at present we are being favoured with a "little season" for mushrooms, and those who live in the country should take advantage of the fact to make some ketchup for winter use. Peel the mushrooms, break each one into several pieces and arrange in layers in a large basin, sprinkling each layer with salt. Leave standing in a warm place near the stove until the next day, then strain and measure the liquid. Boil it for half an hour, then add for each quart ½ oz. each of mixed pickling spice and bruised ginger, half a dozen cloves and three or four blades of mace, all tied in a small square of muslin. Boil for another half-hour, then strain off the liquid and bottle when cold.

Reducing Diets

Valuable Hints

IT was only a few weeks ago that an old man died in England at the age of 105. He had never been in a tramcar, bus or motor, not to mention an aeroplane. He walked everywhere. He kept his muscles in constant use, and consequently lived to an old age, never having known illness. Perhaps it is the present-day cheapness of taxis and easily caught motor-buses almost at our doors that tends to give so many women anxiety regarding their increase in avoirdupois.

Of course, reducing diets play an important part, and perhaps the following hints of what to choose in the way of diet may act as a signpost for some of you who are really serious regarding weight reducing.

(1) Choose food that has sufficient nutritive value, but of small bulk. (2) Take small but more frequent meals. (3) Seldom eat eggs. (4) Do without salt. (5) Eat plenty of baked apples. (6) Honey is allowed in some diets, and it is also a wholesome, energy-creating food.

Unfortunately, nearly everything that is nice is fattening, but beauty seems always to demand a certain self-sacrifice. In Hollywood dieting is simplified as regards "thinking" because dishes are all labelled "fattening" or "non-fattening."

Removing Ink Stains

INK stains can be removed from the hands by rubbing with ripe tomato juice applied at once. It is sometimes successful in removing ink stains from white fabrics. Next time you see tannin in any of your cups try using vinegar and salt. You'll find this will remove the stains quicker than anything else.

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Burns Night

(Continued from page 1.)

required to follow every line of his thoughts. He dignifies labour. He ennobles honest poverty. He clothes the thoughts of the humblest in the most beautiful raiment. His songs will remain his greatest source of power. They are tender as the early blossom and fragrant as the full-blown flower. Laughter ripples over their surface and tears below them. A thousand years are in their substance. They are the emblems of a nation's soul. The late Professor Nichol compresses the much that may be said of these songs into these striking words: "There is the vehemence of battle—the wail of woe—the march of veterans—'red war shod'—the smiles of greeting—the tears of parting friends—the gurgle of brown burns—the roar of the wind through the pines—the rustle of the barley rigs. All Scotland is in his verse."

Let who will make her laws. Burns has made the songs which her emigrants recall by the long wash of New Zealand seas—in which mothers lull their infants—which return through open casements unto dying ears. They are the links—the watchwords—the Masonic symbols of the Scottish race.

Baby Garments

A BABY'S layette is a simpler affair nowadays than it was. The tiny garments are not so elaborate, though every bit as pretty. Silk cloaks, for example, have been replaced by carrying shawls. The old colours are being adhered to strictly, "pink for a girl, blue for a boy." Peach colour is being widely used, especially for trimming the cot and for the addition of bows to woolly bonnets or jackets. Some delightful samples of little knitted jackets I saw the other day were in palest primrose shades and were meant to be worn over white and parchment robes. The small booties were to match, and had tiny satin bows as trimming. On the newest booties, chickens, ducks, or kittens, are embroidered in bright colours, with red and orange felt for beaks and eyes. Some of the little coats have the same quaint figures set around their hems. These animal motifs make an instant appeal to a baby.

Making Bath Salts

HERE is a simple method of making your own bath salts. Put the required amount of carbonate of soda crystals into an enamel basin, add a few drops of sandalwood oil, and stir with a wooden spoon. Then add your perfume—almost one teaspoonful to a pound of crystals—and re-stir. Oil of rose, geranium, verbena, or violets can be used. To colour the bath salts, add very strong tea which has been allowed to stand for some time. This makes the salts a deep cream, and, as it is not a dye, it is harmless, and will not come off in the water. Coffee or cochineal can also be used if a pinkish tint is preferred.

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Friendship

*I FEEL thankful for a friend like you,
One that is understanding, fine and true;
Ready with cheerful word and helpful deed,
The same e'en in prosperity or need.*

*You are the kind of friend one needs to-day,
When times are bad, and all the croakers say
It will be worse! You take a calm, sane view,
Quite certain that your country will pull through!*

*You have a smile, whatever may betide,
That overcomes the barrier of my pride.
Your ready sympathy is freely given,
And closer bonds of unity are riven.*

*What better comfort for this troubled year?
Faith in a friend who's steadfast and sincere.*

—“THUR.”

Mechanical Ability in Women

FOR four years a group of scientific investigators at an American University have been working out experiments which prove that men and boys do not excel women and girls in mechanical ability, reports the Women's Engineering Society. Social pressure frequently prevents girls from taking up professions hitherto considered “masculine,” but there is no doubt that women are just as capable as men when it comes to jobs needing a high degree of mechanical skill and knowledge.

A Famous Novelist

THOSE who enjoy reading the light and very modern novels of Berta Ruck will be interested to hear how they are produced. Miss Ruck never “worries” her stories, and they are all based upon the roughest and sketchiest of scenarios. “I believe in letting my characters take care of themselves directly they have learned to walk,” she said to an interviewer. Nor does Miss Ruck smoke while she is writing, or at any other time for that matter. She is just off to Berlin by aeroplane to get some night club scenes for her next book.

A Humorous Incident

NEAR Chequers, in Buckinghamshire, the country residence of England's Prime Ministers, there stands a small hotel run by the Society of Friends (commonly known as Quakers). There are two sets of charges, according to whether the “guest” is a “friend” or not. According to the “Daily Mail,” an amusing incident took place during an informal meeting of Cabinet Ministers held at Chequers. It appeared that there was not room for all the members to stay the night at the Prime Minister's residence, so one distinguished Minister, who was accompanied by his wife, decided to put up at the Jordan's Hostel, of which he had heard interesting reports. On their arrival late that night they asked for a room, and were at once asked by the good lady in charge: “Are you Friends?” “No,” replied the Minister in some confusion; “married.”

Some Novel Ideas

HERE are some useful household tips that I have recently tried: To remove fruit stains made on pudding cloths, put an eggshell in the water in which the cloths are scalded. When washing green vegetables we all add salt to help clean them, but I wonder if any have ever tried using vinegar instead. Try it, for it removes the dirt very quickly and also improves the flavour.

Never throw old felt hats away, but try to find time to make children's slippers out of them. Do it this way.

It is said that proper feeding would remove 80 per cent. of the illnesses in the country in a year.

Unpick a child's old slipper and place it flat on the hat, then cut out two soles and two uppers, allowing for turnings. Then stitch up the back of the uppers to form the heels. Next stitch the soles on and turn inside out. Slip soles in and finish with button and buttonhole.

Another novelty that is sure to be popular are picture-frames of looking-glass. They are not quite one inch wide, and have a centre of looking-glass, with a tiny beading of wood at each side, so that firelight or lamp-light reflected in the glass makes a most artistic effect.

A Subtle Compliment

IT is a curious fact (says a writer in a London paper) that the average man never notices a woman's dress until it is nearly worn out, and then he begins to like it and to ask her to wear it. Is not that a subtler compliment to the woman than the artful man's praise of a dress as a piece of artistry? It means, does it not, something like this: “What you wear, considered as material of a certain cut and colour, has no significance for me. Only in so far as it becomes part of your personality does it please.” A new frock is your dressmaker's; an old frock is you, and therefore I like it, though it is falling into rags.”

The Art of Listening

Appreciated by Men

THE woman or girl who is welcome everywhere is not the one who is a brilliant conversationalist, but the one who is a good listener. Especially is this so where men are concerned. Phyllis, the witty talker, will keep her companion amused with a clever resume of the day's happenings, of her own reactions toward these events, with perhaps a spicy bit of gossip or scandal to finish off.

The man listens and laughs at the right places, and the girl feels that she has been a success.

“Wireless hasn't yet produced a loud speaker that beats a self-made man.”

But the man notes with a feeling of real pleasure that the next name on his programme is Margaret. He doesn't know exactly why he is pleased, but then men are not analysts. So, encouraged by his new companion, he begins to talk, and it is not long before he is telling her all about that last round of golf when he nearly got a hole in one—about his new rooms which he is sharing with a friend—about his prospects of a move up in the office during the New Year week, and so on. Margaret listens and murmurs sympathetically over the almost-in-one hole (omitting to mention the fact that she did that same hole in one herself at the week-end), and the result is that the man goes off thinking he has never met such a delightful girl, and vowing to see more of her in the future. He will never notice that she has not spoken much—in fact, he may quite possibly think she is a brilliant conversationalist, for, as I have said before, men are no analysts.

Hand-Embroidered Evening Dresses

THE return to favour of hand-embroidered materials is giving employment to thousands of expert needlewomen. In one department of a big London fashion house, over fifty per cent. of the material for evening dresses was adorned in this way. One especially beautiful frock of heavy parchment-coloured silk georgette had a design of cobwebs embroidered in silk on the surface, the colours toning

“All men are born equal, but some prove unequal to anything else.”

and shading into each other in a wonderful manner. When the material on view appears particularly fragile, pieces of the silk are often displayed showing how it reacts to various methods of washing and cleaning, and how it retains the fastness of the colouring.

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COOKERY NOTES

Miscellaneous Recipes



Orange Sherbert

Ingredients: 3 oranges, 2 lemons, 5 cups water, 2lb. sugar, whisked whites of 2 eggs.

Method: Pour the water (boiling) over the rinds and juice of fruit. When cold, strain, and add sugar. Put in saucepan and bring to boil; cool, add egg whites. Use wineglassful to a tumbler of water.

Chili Wine

Ingredients: 2 quarts boiling water, 3lb. sugar, 4oz. citric acid, 2 teaspoons essence of lemon, 10 chillies, 2 table-spoons sugar (burnt black).

Method: Bruise chillies and put all ingredients into a jug, except lemon and burnt sugar. Pour on boiling water and let stand till nearly cold; then add lemon and sugar. Bottle when cold.

Apple Pop

A VERY refreshing summer drink is made from waste apple windfalls. Cut them up and place in a large jar. Pour over a large cupful of sugar, and fill up with boiling water. A little yeast may be added to start the first lot. Let it stand for four or five days; strain, and bottle. Cork tightly and tie down. It is ready for use in a few days. Leave a little of the apple in the jar to start the next lot.

Oatmeal Drink

BOIL 1lb. oatmeal in 3 quarts of water for 1/2 an hour, then add 1 1/2 table-spoons of sugar; strain and cool. It may be flavoured with a little lemon or raspberry syrup if desired.

Lemon Ginger Cordial

BOIL 1lb. of root ginger in a quart of water for 1/2 an hour. Then add 1 1/2lb. of sugar, and 4oz. citric acid. Boil for another 15 minutes. Strain, and when cool add a teaspoonful of essence of lemon, and bottle it. One table-spoonful is enough to a glass of water.

Ingredients: 4 eggs, 1/2 breakfast-cup flour, 1/2 br. cup sugar, 1/2 teaspoon cream of tartar mixed in flour, and 1 tea-

spoon soda in 2 table-spoons hot water, teaspoonful on cold slide and added last.

Method: Bake in shallow tin 15 to 20 minutes. When cold spread half with a raspberry jelly, just setting, and place other half on top. When thoroughly set cut into squares or diamonds. Next pound together 4ozs. ground almonds, 3ozs. sifted icing-

bake in moderate oven about 10 minutes. When warm fasten two together with icing made with a little melted butter, icing-sugar and orange juice. If stored in airtight tin will keep fresh for two or three months if wanted.

Cinnamon Rolls.

Ingredients: 4oz. flour, about 1 des-ert-spoon of milk, 2oz. cornflour, 2oz. soft brown sugar, 2 level teaspoons baking powder, 1 egg, few drops essence of vanilla, 3oz. butter.

Method: Dredge the flour, baking powder, and cornflour, rub in the butter, add sugar. Bring to a soft dough with the egg; roll out very thinly, cover with sugar and then cinnamon; roll up like a roly-poly, cut into thin slices, put on to cold greased tray. Bake in moderate oven; time, about 10 to 15 minutes.

Note: If egg is large, will not require milk.

A Farewell

*THE wild sea wept and wailed to-night
Like a lost soul crying alone;
Till the shadows came thro' the dying light,
Soothing its weary moan.*

*And the grey smoke twisted and swayed,
Like the ghost of a haunted fear—
And I held you closer—and prayed, and prayed!
But God, alas! did not hear.*

*For he took you up, thro' the dying light
My little—my little—my own . . .
The wild sea wept and wailed to-night,
Like a lost soul crying alone.*

—H.R.T.

Chocolate Kisses

Ingredients: 7oz. butter, 3oz. sugar, yolk of 1 egg, 8oz. flour, 3 table-spoons cocoa, dates, walnuts, white of egg; cool oven.

Method: Make ingredients into stiff dough. Put stoned date inside each

Orange Biscuits

Ingredients: 1lb. butter, 1lb. sugar, 1lb. flour, 1 teaspoon baking-powder, 2 eggs, grated rind of 2 oranges and 2 table-spoons of juice.

Method: Beat butter and sugar, then eggs, then rind and juice, lastly flour and powder. Place



Cook's
opinion of a
broadcaster!

—she thinks he's wonderful during the evening programme—but when it comes to baking she'd sooner have a tin of ANCHOR SKIM MILK POWDER on the shelf than the finest radio going. A few spoonfuls added to every mixing means more delicious scones and cakes—higher food value—and a freshness that lasts for DAYS.

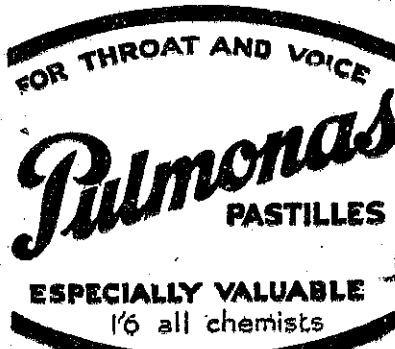
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WHAT is claimed to be the most advanced radio equipment ever installed on a merchant vessel was carried by the American liner "Morro Castle" on her recent maiden voyage to Havana. Beside the ordinary commercial apparatus, the equipment comprises a central receiving station of the superheterodyne type and an electric gramophone. From these music, either broadcast or from records, can be distributed simultaneously to the public rooms of the vessel.



WITH the idea of killing jazz and educating the public to appreciate fine music, a Determination of Broadcasting Company has been formed in New York. The National Broadcasting Company has amalgamated with two prominent American music publishing houses, with a combined capital of £1,320,000. These publishing houses will select the works to be broadcast by the N.B.C. Apparently listeners in America are to have their musical tastes improved, whether they like it or not.

STATION CFCE, Montreal, has more than ten years of continuous broadcasting to its credit—a unique record, for this station was the first in the world to broadcast on a regular schedule. It commenced transmission in 1918 with a call of XWA, and its first audience consisted of a handful of experimenters. Month after month the transmissions continued, and each week new distance-records were made.

A standard ship's wireless installation was used, adapted for speech transmission. Sometimes gramophone records were broadcast, at other times a player-piano was used, and quite frequently local talent was called in. These first broadcasters did not face a small "milke" as they do to-day, but a much less delicate instrument was plugged into the small end of a megaphone.

AMERICAN commerce, agriculture, and navigation have greatly benefited during the past year through increased facilities for radio communication. For years the United States Weather Bureau has issued frost warnings, harvest weather warnings, warnings of cold waves, and forecasts of minimum temperatures which have been valuable to farmers and the rural populations. Now radio broadcasting makes these bulletins of even greater value, as weather reports may be dis-

seminated with greater promptness. Navigation on the inland lakes and on the ocean is made safer because of the expedition with which news of hurricanes, storms, and floods is reported. Shipping interests are aided by these same reports and air transports are able to plan schedules for days ahead with greater confidence.

IN America the Air Force is now able to transmit from an aeroplane in flight, over a distance of a hundred miles, a radio picture of a map showing the imagined enemy plan of attack. It certainly appears that the next war will be won in research laboratories.

THE International Broadcasting Union now controls 330 broadcasting stations, which supply ninety million European listeners with pro-

grammes. At a recent meeting the Union resolved to concentrate on improving reception conditions, paying particular attention to the problem of electrical interference.

WE in New Zealand are apt to be impatient at the relative weakness in volume of the Australian stations during the summer evenings with their protracted daylight. For a brief period during midsummer in both southern and northern Finland daylight continues for 24 hours. Distant radio reception on wavelengths between 200 and 550 metres is then impossible. The Finlanders during this continuous daylight period have to be content with their own 40 kilowatt station at Lahti, which operates on a wavelength of 1796 metres.

AN ingenious device known as a "radio rifle" is now being adopted by up-to-date shooting galleries in America. When a coin is inserted in the cabinet on which the rifle is mounted, an illuminated target is thrown on a wall or screen. When the trigger is pressed, an electric spark shows where a bullet would have hit.

A CAREFUL check of the likes and dislikes of subscribers to the Japanese broadcasting service is used as a basis for the type of programmes selected. Usually, letters from listeners are carefully read and tabulated, and when adopting a programme policy, they are given careful consideration. Meetings are held for the selection of suitable broadcast fare—and such men as university professors, newspaper editors, doctors, novelists and professional men in all walks of life are called in for their opinions. By such an exchange of ideas, the resulting programmes are usually well balanced, and are much appreciated.

THE wireless picture transmission service across the Atlantic has once again proved its worth in saving a bank at Berlin the sum of £12,500. According to an English daily, notification had been received from a New York banking house for presentation of a bill for this amount, and, as suspicion was aroused, a copy of the bill was wirelessly. It was found to be a forgery.

TWO Royal Air Force aviators were rescued from the wing of a damaged seaplane which overturned recently near Plymouth, an English coastal town. When the machine took off on a flight to Sweden, it was seen that one of the floats, probably struck by a heavy wave, was broken. Both the pilot and the wireless operator were evidently unaware of the mishap, and so warnings were wirelessly to them. The machine was then headed for home, and skilful piloting enabled it to be landed safely off the Plymouth coast. Unfortunately, before help arrived, heavy seas turned the plane over, leaving its occupants clinging to the wings.

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