

Short Wave Stations of the World

3^D

THE LISTENER IN

WITH WHICH IS INCORPORATED
POPULAR RADIO

November 21,
1931.

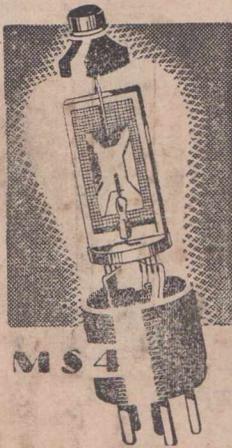
*Registered at the G.P.O., Melbourne, for transmission by post
as a Newspaper throughout Australia.*

Vol. 7,
No. 47.



NORMAN BLAND—"ALMOST A GENTLEMAN." In character and humorous numbers, Norman Bland is very popular with listeners to 3LO and 3AR. He is also a member of the comedy duo, "Tunin and Hearem." He will be heard from 3AR on Saturday, November 28.

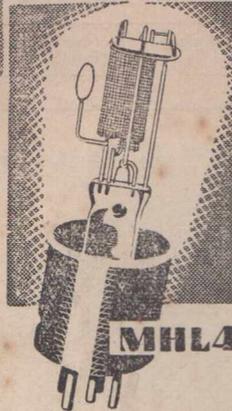
The Quality Four-Valve Receiver—See Technical Section



MS4



PX4



MHL4

THREE OSRAM ACES

...in the 4 volt A.C. field

THREE valves that have made radio history—MS4, a very stable screen grid valve with an amplification factor of 550—MHL4, a very sensitive detector suitable for use with high plate voltages in "Power Grid" circuits — and PX4, the perfect 4-volt Power Valve.

Together, they form one of the most efficient combinations possible for a three valve set. Separately they offer you a radio-frequency amplifier, a detector, and a power valve, each of which is acknowledged to be without an equal in its particular field. Your dealer has them.

Osram Valves

MADE IN ENGLAND

"Raise the Standard of Reception"

CITY DISTRIBUTORS:

A. J. Veall, 172 and 243 Swanston St., Melbourne; 302 Chapel Street, Prahran.
Oliver J. Nilsen & Co. Pty. Ltd., 45 Bourke St., Melbourne.

You Cannot Build a Cheaper All-Electric Set

Than By Using These Osram 4V. Valves With The New E.V.O. Transformer and Choke

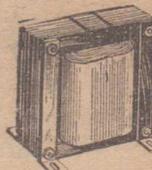
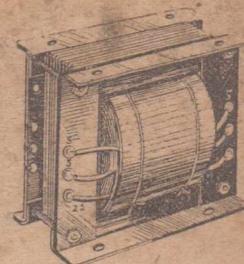
GENUINE OSRAM BRITISH A.C. VALVES

TYPE	PURPOSE	EQUIVALENT TO		Last Week's PRICE	VEALLS Price
		Philips	Mullard		
MH4	R.F., DET., & R.C.	E438	354V.	23/6	7/11
MHL4	AUDIO & DET.	E435			
		E424	164V.	23/6	7/11
		E415			
ML4	POWER	E409	104V.	23/6	7/11
MS4	SCREEN GRID	E442			
PX4	4V. SUPER POWER	D404	S4V.	29/6	11/3
U9	FULL WAVE.	506	—	25/	10/6
	RECTIFIER	2506	DJ2	27/	7/6
PT425	UX PENTHODE	B443	PM24	27/6	12/6
P425	POWER	B405	PM254	16/6	6/11
PT425	UY PENTHODE	B403	PM24	27/6	12/6
		B443			

The E.V.O.

Power Transformer

200-230 Volt Primary. Secondary 250V/250V 60 m.a. Three 4 volt windings. PRICE 26/3.



The E.V. Choke

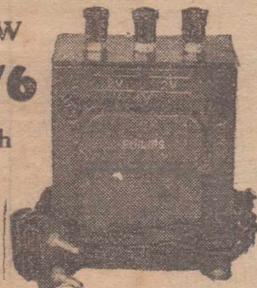
The E.V. 30 Henry choke, suitable for use with the E.V.O. and other Transformers. Price 15/9 each.

A SPECIAL SNAP 23-PLATE
Midget Condensers 4/9 with Knobs 5/-



PHILIPS FILAMENT TRANSFORMERS

NOW **9/6** each



230 Volt Primary. Delivers either 4 volts or 2 volts at 5 amps. Suitable for use with Osram 4-volt valves. Toy motors or miniature lighting effects. List Price, 30/. AT VEALLS, 9/6.

NEW PRICE LISTS NOW READY

If you have not already received our new Nov.-Dec. Price Lists, write for copy. Xmas suggestions in Electrical Goods. Your name and address on the margin of this advt. will bring a copy by return post.

WESTERN ELECTRIC SET BUILDERS
Audio Transformers
White 2/6 ea.
Stocks Last

NEW METER STOCKS

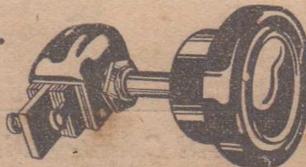
0-1 Milli-Amps

Superior type 0-1 Milliammeters. Approximate internal resistance 60 ohms. First class moving coil instrument. Suitable for making the Dual Milliam and Voltmeter recently described in the Listener In.

No. 4220 **28/3**
0-1M.A.

SOMETHING NEW

H. & H. Knob Switch

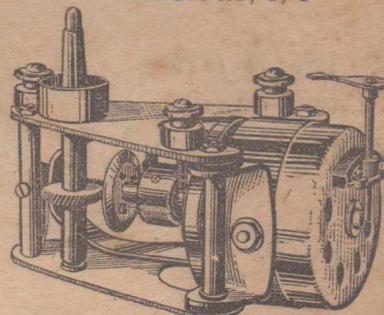


New Knob Switch embodies well-known H. and H. snap switch controlled by knob mounted on 1 1/2 in. shaft, allowing switch to mount on chassis and knob to protrude through panel. Price 2/10 each. With knob, 3/7.

GLAZITE SHOCK PROOF HOOK UP WIRE
(5 ft. Coils) **3d.**

STANDARD 4 MFD 750V. D.C. Filter Conds. 3/11 ea.

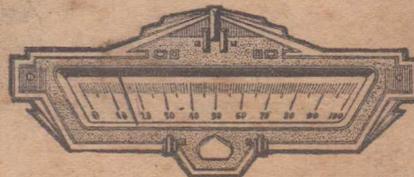
EXCEPTIONAL VALUE £5/7/6



No. 15 GRAMO MOTOR

Set builders. Here is your opportunity. Well-known No. 15 Induction type A.C. Gramo Motor. Adjustable from 100V. to 250V. Complete with Speed Regulator, Turntable, etc. Automatic Stop. Was £8. At Vealls, £5/7/6.

Radiokes Full Vision Dials



Handsome embossed metal full vision. Vernier dial by Radiokes. The latest and most efficient geared vernier dial. At Vealls, Price 22/6.

VEALLS

PTY. LTD.

243-249 Swanston St., Melb., C.I.
168-172 Swanston Street, Melb., C.I.
302 Chapel St., Prahran, S.I.
Phones Cent. 2058, 10524, Wind. 1605.

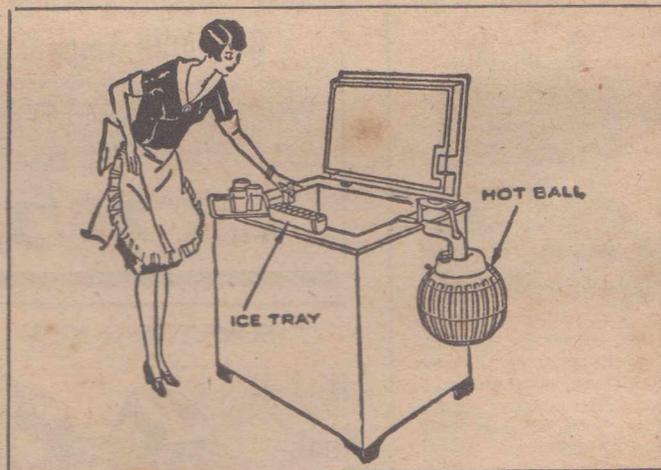
Freezing Without Electricity

ICYBALL

REFRIGERATOR

*Always
Fresh,
Frozen
Food
with an
ICYBALL
Non-Electric
Home
Refrigerator*

WITHOUT electricity—without mechanical power, this home refrigerator keeps meat, fish, milk, cream, butter, eggs and all perishable food fresh and wholesome. The Icyball provides perfect cold storage and ice cubes for the glasses of your guests. It costs little more than a good ice chest, and can be bought on terms.



Agents in All Country Districts

Please send me full particulars of the ICYBALL, with name of Local Agent.

MY NAME

ADDRESS

.

Listener In, 21/11/31.

NEW SYSTEM TELEPHONES
PTY. LIMITED
181-3 King Street, Melbourne
280 Castlereagh Street, Sydney
Charles Street, Adelaide

Bargains! Bargains! Bargains!

Don't Miss This

SMASHING INTRODUCTORY OFFER

Valve Prices Smashed

280 Rectifiers

Usually 15/-	
From	5/9
Bond	5/9
Speed	7/6

245 Power Valves

Usually 19/-	
From	8/6
Speed	8/6
Mullard	8/6
Sonatron	8/6
Philips	10/-
Arcturus	13/6

171A Power Valves

Usually 20/-	
From	7/6
De Forest	7/6
Mullard	8/6
Cunningham	15/-

112A Power Valves

Usually 20/-	
From	6/6
Sonatron	6/6
Sylvania	7/6
Cunningham	14/6

210 Power Valves

Usually 72/6	
Sonatron	30/-

250 Power Valves

Usually 70/-	
From	32/6
Sonatron	32/6
Sylvania	32/6

**We Test
Your Valves
FREE!**

To popularise our new Accessory Department we are offering staggering values in radio accessories.

Those shown here are just a few of the wonderful snaps available.

Visit our store early and inspect the full range. Stocks won't last at these prices.

ASTOUNDING BARGAINS IN CABINETS

Brand new cabinets in a variety of handsome designs.

Table Type	7/6
Mantel Type	10/-
Consoles	30/-

DYNAMIC SPEAKER SNAPS

Magnavox 106 110/190V. D.C. 7 $\frac{1}{2}$ in. Cone	57/6
Magnavox 109 300V. D.C. 10 $\frac{1}{2}$ in. Cone	70/-
Magnavox 116 110/180V. D.C. 7 $\frac{1}{2}$ in. Cone	57/6
Rola 110/190V. D.C. 7 $\frac{1}{2}$ in. Cone	65/-
B.T.H. 110/190V. D.C. 7 $\frac{1}{2}$ in. Cone	22/6
Jensen (American) D4. D.C. 6V.	£6

Magnetic Speaker Snaps

Hegra Type Q.	29/6
Philips Baby Grand	35/-

Eliminator Bargains

Philips 3002 "B" Elim.	£4/10/-
Philips 3003 "B & C" Super	£7/10/-
Philips 3009 "B & C" Light	£6/10/-

See Our Windows for Other Lines

COUNTRY CUSTOMERS
Please include Cash and Freight
with Order.

Valve Prices Smashed

224 Screen Grid

Usually 22/6.	
From	4/6
Bond	4/6
Speed	8/6
Philips	9/6
Mullard	10/6
Arcturus	13/6

227 Detectors

Usually 17/6.	
From	7/6
Philips	7/6
Speed	7/6
Mullard	8/6

226 Detectors

Usually 15/6.	
From	4/6
Vox	4/6
Philips	5/6
Mullard	6/-

OSRAM VALVES HALF PRICE

DE4, Battery type ..	4/6
DE5, Battery type ..	4/6
MS4, A.C. Screen Grid	11/-
MHL4, Detector ..	7/11
MH4, Detector ..	7/11
PT 425, Penthode ..	12/6

SNAPS

Magnavox, 201A ..	5/-
De Forest, 201A ..	5/6
Philips, A141 ..	4/-
Philips, A209 ..	7/6
Philips, A225 ..	7/6
Philips, A410 ..	4/-
Philips, B105 ..	6/-
Philips, C135 ..	6/-
Philips, D143 ..	6/-
Philips, 201A ..	4/6
Marconi, DE 3 ..	4/6
Marconi, DE 4 ..	4/6

WRITE FOR OUR COMPREHENSIVE CATALOGUE

Healing's

PTY. LTD.

'Phone C.2078

'Phone C.2078

101-103 ELIZABETH STREET, MELBOURNE

And Still They Come

18 Months Service

19 Months Service

Two further experiences of users of New "Diamonds." Let These Facts Guide You.—

1 Zeal Street,
West Brunswick,
5/11/31.

The Hendon Electrical Co.

Dear Sirs,—

"I am writing you these few lines to let you know what service I have had out of one of your "Diamond" Radio Batteries.

I have had it in constant use for 18 months, having purchased same in May, 1930. It has been used on a three-valve set and gets pretty solid use, and is now just about 'konking out,' to use an expression.

I thought it only fair to let you know, as you read about so many wonderful batteries that a letter like this may be of use to you."

Yours respectfully,
(Signed) Geo. Cherry.

45 Laurie Street,
Ballarat,
1/9/31.

The Hendon Electrical Co.

Dear Sirs,—

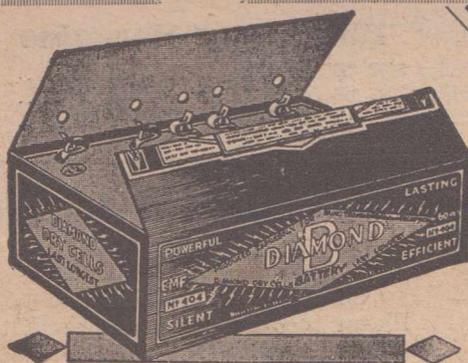
"On the 10th January, 1930, I bought a Diamond Heavy Duty 60 volt "B" Battery for use on a three-valve wireless set.

Using just this one "B" Battery, I have had excellent reception from all States; including Tasmania. It is only this last week that the battery has given out, thus giving a period of over nineteen months' service, which I consider an excellent recommendation for your batteries.

If you should think this letter of any use to you, you are at liberty to use it."

Yours faithfully,
(Signed) T. M. Paull.

There are 40 odd different types in the Diamond Range of Batteries and Dry Cells, including—Torch Units of various sizes, Cells for Working Models, Bells, Buzzers, etc.



TRIPLE CAPACITY—
HEAVY DUTY—
LIGHT DUTY TYPES
Complete Catalogue Free
Available All Dealers.

THE NEW
Diamond
B-BATTERIES
GENERATE MORE ELECTRICITY—for a longer time

Direct Factory Distributors:
THE HENDON ELECTRICAL CO.
GROUND FLOOR—"WHITEHALL," BANK PLACE, MELBOURNE.
PHONE, F4952.

Interstate Representatives:

N.S.W.: Reg. Rose and Company, Sydney. S.A.: Newton McLaren Ltd., Adelaide; A. G. Healing Ltd., Adelaide. Queensland: J. B. Chandler, Brisbane. W.A.: Carlyle and Company, Perth. Tasmania: W. and G. Genders Pty. Ltd., Launceston and Hobart; Oliver and Oliver Pty. Ltd., Hobart and Launceston; A. Medhurst and Sons Pty. Ltd., Hobart. (W.-McF.)

THE LISTENER IN

Vol. 7, No. 47

NOVEMBER 21, 1931

Price Threepence

The World We Listen In WIRELESS NEWS FROM ALL QUARTERS

Broadcasters Help Charity

AT the invitation of Amalgamated Wireless (A/asia) Ltd., an advisory committee has been established in connection with the programmes of the Bendigo broadcasting station, 3BO.

The committee comprises the Mayor of Bendigo (Cr. G. D. Garvin), who is also president of the Advance Bendigo and the North League, the president of the Chamber of Commerce (Mr. W. M. Bolton), Cr. A. Staples, a prominent member of the local musical and broadcasting circles, and Mr. J. L. Mulholland, Victorian manager of A.W.A. The committee is endeavoring to arrange the programmes on a basis which will suit the largest number of listeners possible.

As a gesture of goodwill, Mr. E. T. Fisk, of Amalgamated Wireless, arranged to run 3BO for the first four months entirely at the company's expense. Advertising matter is now being included in the programmes and Mr. Fisk has arranged that one-third of any profit that may be made will be placed at the disposal of the advisory committee for distribution among local charities.

Station 3BO has now settled down into its stride and is regarded as one of the finest in the Commonwealth outside the capital cities. Its wave length is 309 metres.

Radio a Public Utility

ARE broadcasting stations public utilities, such as are railways, trams, buses and the like, to serve all who would use their facilities? In other words, since radio wave lengths are used under franchise from the Government, has anyone, as a Citizen, a right to speak or sing on the radio for whatever cause or whenever he chooses?

An American judge insists that broadcasting stations are utilities of a sort. If one commercial interest is allowed to broadcast, he maintains, or if one side of a controversial issue is presented, all interests and all sides must be accorded the same opportunity to use this great natural medium of communication.

Fire-Fighting Aeroplanes

ONTARIO has a fire-fighting air force of nearly 30 planes, which protect her vast forest resources above and on the railway. Up to the Hudson Bay these planes fly, carrying men and fire-fighting equipment during the heavy fire seasons. And each plane is dispatched by radio, for the Department of Lands and Forests has nine short-wave stations in operation in that country at forestry rangers' headquarters, while 10 more of these stations were established during the past summer, so successful have they proved.

When the forestry service can spare the stations for a few hours, many commercial messages from fur traders, prospectors, trappers and hunters await transmission to the head offices in Toronto and Montreal.

In Quebec it is the same, only here water-power companies are the users as well as mining operators. Everywhere across the Dominion, wherever business men have gathered, radio stations take the place of wires which are not due for many years to come.

And in order that there shall be no interruption when wires go down, the two great railways, the Canadian Pacific and Canadian National, have supplemented their telegraph systems with high-powered short-wave radio stations.

Police Radio

ALTHOUGH police wireless is less than four years old in America, more than 50 cities and towns and two States already are operating police signal stations; but in Michigan the pursuit of the criminal over the air waves has become an exact science.

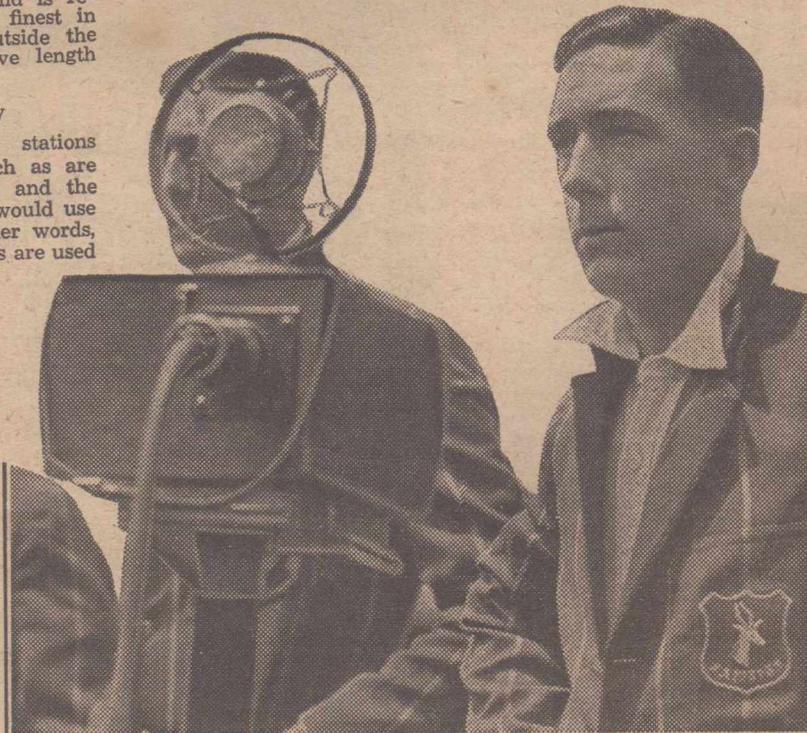
In fact, the entire activity of the Michigan State Police is built upon its broadcasting station, WRDS, at East Lansing. Messages flash day and night not only to cruising patrols and scout cars on the State highways, and to 40 posts of its own organisation, but to every police desk and every sheriff's office in the 1000-mile length of the State.

Thus a bank robbery in an isolated village in the northland is reported simultaneously to the sheriffs of all

near-by counties, to all posts of the State police, and to all city police offices. All the 40 cruising squad, patrol and scout cars pick up the same alarm.

New Television Receiver

A NEW home television receiver using an improved light source, which enables the received images to be projected on a screen so that the whole family can view them, has been announced by the Short Wave and Television Corporation of Boston, Massachusetts. No technical details of the apparatus are yet available, but it is understood that many improvements have been included in the new model.



HORACE CAMERON, captain of the visiting South African Team of Cricketers, took the opportunity while in Melbourne, of introducing his team to listeners. The above picture shows the popular captain facing the microphone.

Broadcasting in New Zealand

THE licence of the broadcasting company in New Zealand expires in December of this year. The New Zealand Government has decided not to renew this licence, but to place all broadcasting stations under the control of the Post Office. The power of these stations will be considerably increased, and eight new relay transmitters will be built. Another beneficial measure will be the prohibition of advertisement broadcasts.

The Government's Radio Hour

ACCORDING to the Philips Radio Press Bureau, the broadcasting of messages by the German Government to the people during the recent time of crisis proved to be of such inestimable value that other countries, too, are now advocating the use of broadcasting as a means of enabling the Government to address the whole nation and enabling other nations to make their voices heard. This should bring about a better understanding between Governments and peoples, and also between the various nations.

Words spoken before the microphone by a responsible Government personage will serve to refute any incorrect, alarming reports and to preserve order throughout the country.

It may safely be assumed that in most countries the bulk of the population can nowadays be reached by broadcast messages, so there is much to be said in favor of instituting a "Government hour."

The principal affairs of State should be explained in detail by a member of Parliament or other prominent person during this "Government hour."

This would establish the same close contact as the camp-fire among uncivilised tribes, where the chieftain addresses his fellow-tribesmen in terms calculated to inspire confidence.

COMPETITION SOLUTION No. 12

The following are the solutions of the Puzzle Competition No. 12 that appeared in the issue of November 7. The names of the prize-winners will be published in the issue of December 5:—

- 1. Book; 2. Stock; 3. Track; 4. Stop;
- 5. Bowl; 6. Bind; 7. Evade; 8. Clash;
- 9. Quiver; 10. Apt.

Look up your list and see if you were right in EIGHT or more of these in any single set of PICTURES you sent in. If so, forward a claim, stating the exact number you answered correctly in any single set. Sign your name and address the same as that which you wrote on the back of your envelope containing your entry.

Address you claim to—

The Editor,
The Listener In, Box 1924R,
G.P.O., Melbourne,

and post in time to reach us not later than 3 p.m. on Saturday, November 28.

Competition No. 10 Result

Only one reader—Mrs R. E. Ross, 7 York St., Surrey Hills, E.10—succeeded in correctly naming all the pictures. A cheque for £10 is being forwarded to this competitor.

Short Wave Section, W.I.A.

TWO meetings of the newly-formed short-wave group of the Wireless Institute of Australia have been held, and the next is planned to take place at the rooms, Kelvin Hall, on Tuesday, November 24.

A visit to VK3ME and the A.W.A. station at Braybrook was quite successful, and proved extremely interesting. The next place to be visited will probably be the police installation at Russell Street.

The Vatican Station

THE competent authorities of the Vatican station have published an official communication in reply to a great number of enquiries as to the report that they do not intend to maintain a regular broadcasting service. The hours of transmission are 8 p.m. on the wave length of 19.84 metres and 5 a.m. on the wave length of 50.26 metres. At these times news, information and communications will be transmitted. These are Sydney times.

On Sundays and Holidays a special transmission will be given for the sick.

Wireless Sets Burned

A FEATURE of Radio Week, in Cardiff, England, was the burning of a large number of antiquated radio sets. The event was preceded by a torchlight procession, and followed by a monster radio ball.

Television Today

A SURE sign that television will soon be here is that the British Broadcasting Corporation has agreed to admit television within the recognised programme hours. In place of two midnight transmissions which were being conducted, there will be a broadcast at 10.30 one evening each week.

Radio on a Camel

AT a radio congress recently held at Casablanca, a competition was organised for the most original radio receiving station. The prize was unanimously awarded to a radio listener who had mounted a receiving installation on a camel's back and used a frame aerial which was fixed to the head of the proud animal.



A replica of the original laboratory in which Michael Faraday, to whom radio is deeply indebted, conducted most of his electrical experiments.

Callous.

Radio Enthusiast (to falling aviator): "Hey! mind my aerial, I'm trying for London to-night!"

The Man Who Knew!

Stranger: "Can you tell me the quickest way to the hospital?"

Resident: "Go up to that big fellow over there and snatch his copy of The Listener In!"

The Difference

Old Uncle (sadly): "My boy, it's terrible to be old and bent."

Nephew (with visions of a new radio receiver): "Yes, Uncle; but it's worse to be young and broke."

"Something Accomplished—"

Tramp: "I have come from out of the wilderness to find work."

Householder: "Well, you're just the man I want. There's a forty-foot length of wood for a wireless pole; set to work and plane it."

Tramp: "You misunderstand me, sir. Now that I am confident that work really exists, I will return to the wilderness."

The Alphabetical Way

THE kind old lady's heart was touched by the man's pitiful tale. "Come with me," she said. "I want you to dig a six-foot hole in this clay; it's for the 'Earth' of my radio receiver."

"Sorry, mum," replied the man, "but I can't do it. You see, I'm going alphabetically in search of money. I've asked for money, begged for it, cried for it, and now I'm on the dole for it. But not until I get to 'w' can I work for it. Good afternoon."

Another Use for Radio

"Music hath charms," the late one said.

"To soothe the savage breast. I'll buy a wireless for the wife And put it to the test!"

A Short Circuit

"WHAT do you think of the broadcasting of hook-ups?"

"Great! I won't have to hook up my wife's dress any more."



Dad: "This school report of yours is the worst yet. What do you mean by it?"
 Boy: "Economy, dad. I wanted to save you the price of the wireless set you promised me if it was good!"

WAVELETS

Radio Hits, Quips and Snips

Sunday Evening at Sandy McNab's

Bits from '3DB's New Feature

Ma: Do ye believe in life after death, Sandy?

Sandy: Well, maybe. Let's see, noo, Ma, ye'd be about 68, wouldn't ye?

Ma: Er—just.

Sandy: Suppose ye'd been knittin' a sweater for 68 years, would ye throw it away when ye got it done?

Ma: Why, of course not, Sandy.

Sandy: Well, I'm thinkin' the Lord's got just about as much sense as ye have. Let's leave the Lord's problems to the Lord and you and me decide oors.

Dr. Tanner: The parson saw Dave Brown out in the paddock, and Dave says to him, "Parson, do you think a fellow's got to go to church to get to the Kingdom of Heaven?"

Sandy: And what did the parson say?

Dr. Tanner: Parson says, "Well, Dave, if I was going to England I'd take a steamer, but the swimming's pretty good."

Ma: Jim Tuttle's too pious. He's got so much religion in him there's no room for a heart.

Cap'n Rogers: Well, it ain't my kind of religion. Religion ought to make a man happy, and Jim Tuttle's got a face so hard you couldn't crinkle a smile out of it with less than a hammer and a cold chisel.

Peter: Why, Jim Tuttle didn't even laugh when Harry Pike's bicycle threw Harry into the horse trough.

Sandy: Weel, neither did Harry!

Not So Good!

A CERTAIN man boasted that he could deliver a good lecture on any subject under the sun. One day, after he had just finished lecturing on "Wireless," he turned to his assistant and said:

"I wonder who that man in the front row was! He seemed to be hanging on my every word. Quite a nice chap, I should think. Why, here he comes now!"

"Your lecture," remarked the man in the front row, as he came up, "interested me very much, but I think this would be very useful to you."

And he handed him a book entitled "First Principles of Radio for the Beginner!"

Rough on Bill

BILL was a wireless enthusiast. Anything pertaining to the new science was eagerly sought after, and when someone recommended a new book that was just out, Bill rushed down to get the first copy. He waited only long enough to read the title before he paid over the money and secured the book. Five minutes later Bill was looking for blood. The book he had bought was "In Tune with the Infinite."

Sounded Bad for the Set.

The Set Builder: "Who's that man that's been looking at my set all the evening? He seems impressed."

Friend: "That's Professor Robinson, the celebrated antiquarian."

She Needs a Brake!

A LADY listener who found it difficult to keep pace with the tunes played by the dance bands, in desperation sought advice from the editor of a wireless publication. "Will you please tell me how I can slow down the music for dancing?" she inquired. "I have tried turning all the knobs, but it is no use."

Too Rough!

IT'S rather rough on the birds since they've done away with telegraph wires. They cannot secure a footing on the wireless waves before it goes.

Mere Words

"But," said the prospective purchaser to the second-hand dealer, "this pole seems to be too rotten to hold my aerial. Is it safe?"

"Safest on earth," replied the dealer knowingly.

Brickbats Would be Better

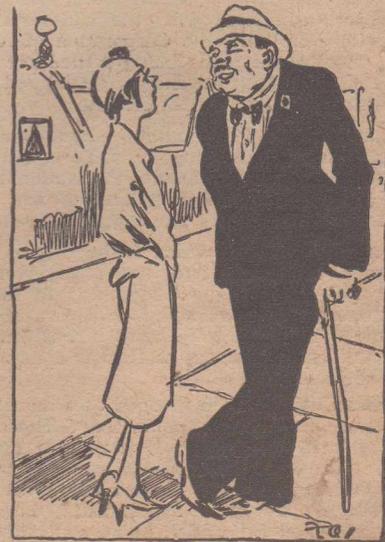
ALTHOUGH radio experts claim that radiating receivers are small broadcast stations, it is a fact that the owners do not receive any congratulatory telegrams for their programmes.

A Knotty Question!

A CERTAIN old lady found that she was rapidly becoming deaf, so she called in the family doctor.

"Well," he said, "an excellent cure for your complaint is to listen in as often as possible on the headphones of your radio set."

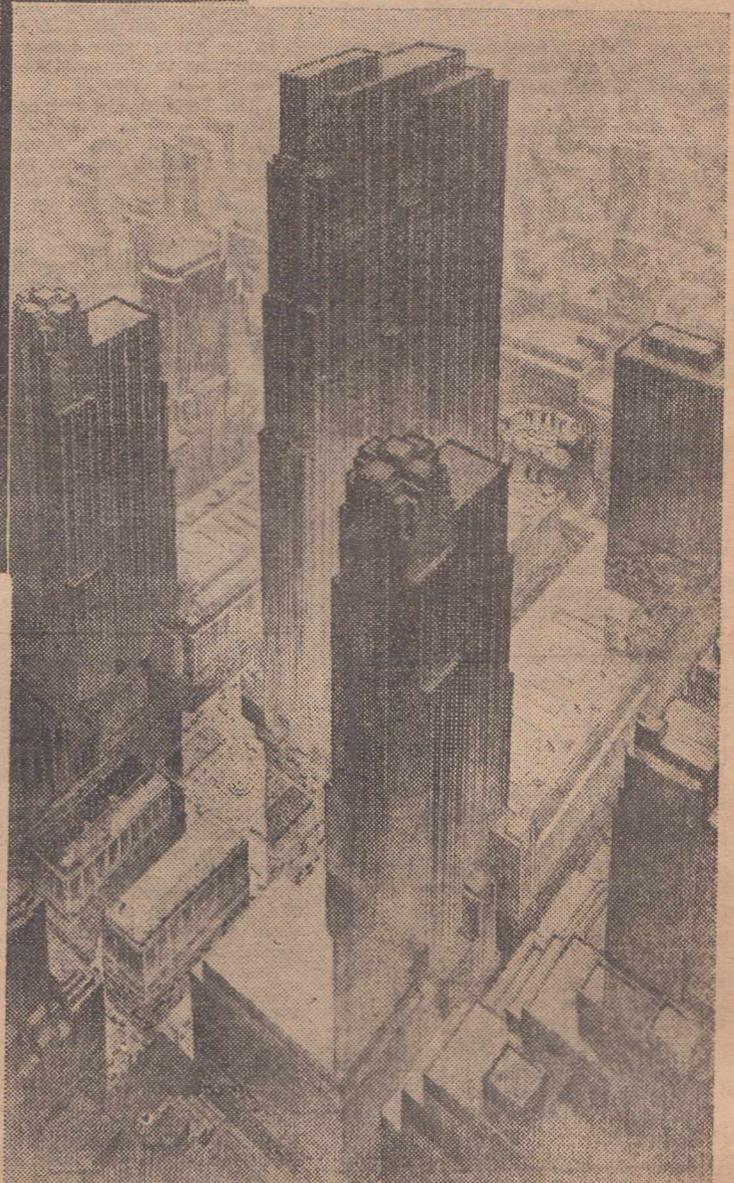
"But, doctor," she replied, remembering how she had been treated for her previous illnesses, "will I do it before or after meals?"



She: "What's he like, anyway?"
 He: "I really don't know; but I heard that he once burst a blood vessel while listening in to the description of a chess match."

RADIO CITY

A City within a City is embodied in New York's latest architectural scheme. Broadcasting stations, cinemas, and theatres will all be housed in the one huge square which is arranged to accommodate 50,000 people.



THE enthusiasm of Mr John D. Rockefeller, jur., combined with the widespread ramifications of the Radio Corporation of America, has resulted in plans being settled for one of the most colossal business and entertainment enterprises hitherto conceived, namely, Radio City.

This is to be a huge building—literally a city within a city—in Fifth Avenue, New York, in which it is proposed to house a theatre, the National Broadcasting Company, a talkie palace, to say nothing of shops, suites of offices, and a gigantic motor car park.

When the site on which Radio City is to be built came, a few years ago, under the control of Mr Rockefeller, his original idea was to form a great monumental square having an Opera House in the middle. The idea grew until it was finally decided to rebuild the business section as a new city of air and sunlight.

Radio City has been planned as a monster business and amusement centre combined. The actual radio interest will occupy nearly a quarter of the whole area. The very latest broadcasting apparatus is to be assembled, several studios being set aside for Television. A huge experimental laboratory has been arranged for, and here an army of technicians will work under ideal conditions with such dreams as the transporting of electricity in bulk by means of radio, the transmission and reception of ether waves on wave lengths measured in centimetres, and on the practical control by radio of moving objects.

Top left hand: Garden scene on the roof of the extension to the sixty-sixth storey office building. The studios of the National Broadcasting Company are directly below. Above: An aerial view of the skyscrapers which will comprise "Radio City."

Radio City will be completed in four years' time, and will dwarf even the towering buildings that already exist in New York. It has been planned to accommodate 50,000 people, and will have its own Mayor in the person of Mr S. L. Rothafel, better known, perhaps, as Roxy, the Entertainment King.

Fifty million pounds have been set aside as the approximate cost, and contracts have already been placed for 125,000 tons of steel to make its 700 miles of girders forming the framework.

Three sky-scrapers will form the main design. In the centre will tower a building of sixty-eight storeys, flanked on each side by twins each forty-five storeys high. Between the three sky-scrapers the designers are planning another novelty—an egg-shaped building of fourteen storeys.

The National Broadcasting Company will be housed in the centre tower, and will occupy fifteen floors. These will be window-less and sound-proof. The twenty-seven studios will be suspended in outer rooms by wires. The Broadcasting Company will have its own talkie palace, its own theatre, and other entertainment halls. The public are to be admitted to these, just like the ordinary houses of amusement, and broadcasts will be selected from each centre as desired.

The architects of Radio City are going to bring to reality the dream of making in New York the hanging gardens of Babylon. Hanging gardens will be visible all over New York, and will occupy eight acres. They will be spread over the roofs at various levels—a garden pattern, or living rug for each roof, with lesser rugs of landscape distributed picturesquely about the terraces that cling to the steep cliffsides above.

The site is owned by the Columbia University, and Mr Rockefeller holds it on a short lease of twenty-one years. However, in the contract there is a renewable clause, and

it is not likely that the site will pass out of his hands.

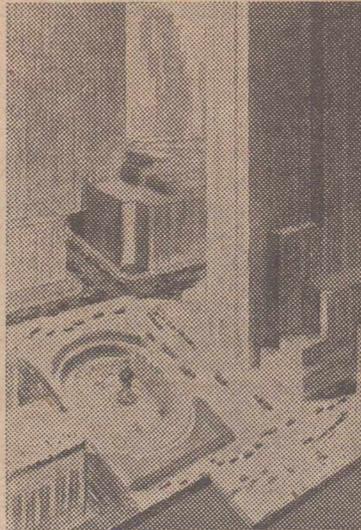
The site comprises three blocks complete except for one plot out of one and a corner out of another occupied by the Collegiate Church of Nicholas. Provision has been made, however, to include the church buildings in the great scheme.

Though the lobbies of the great buildings have all the latest approved effects—shining chromium plate overlaid on marble of curious colors—even though they are lined with painted steel, Mr Jones on the nineteenth or Mr Brown on the thirtieth floor may elect to surround himself with a complete Georgian setting—panelled walls, fireplace, overmantel and costly original furniture to match. That is to say, although the buildings are made with machine-like modernity, the various tenants may please themselves with the designs of their suites.

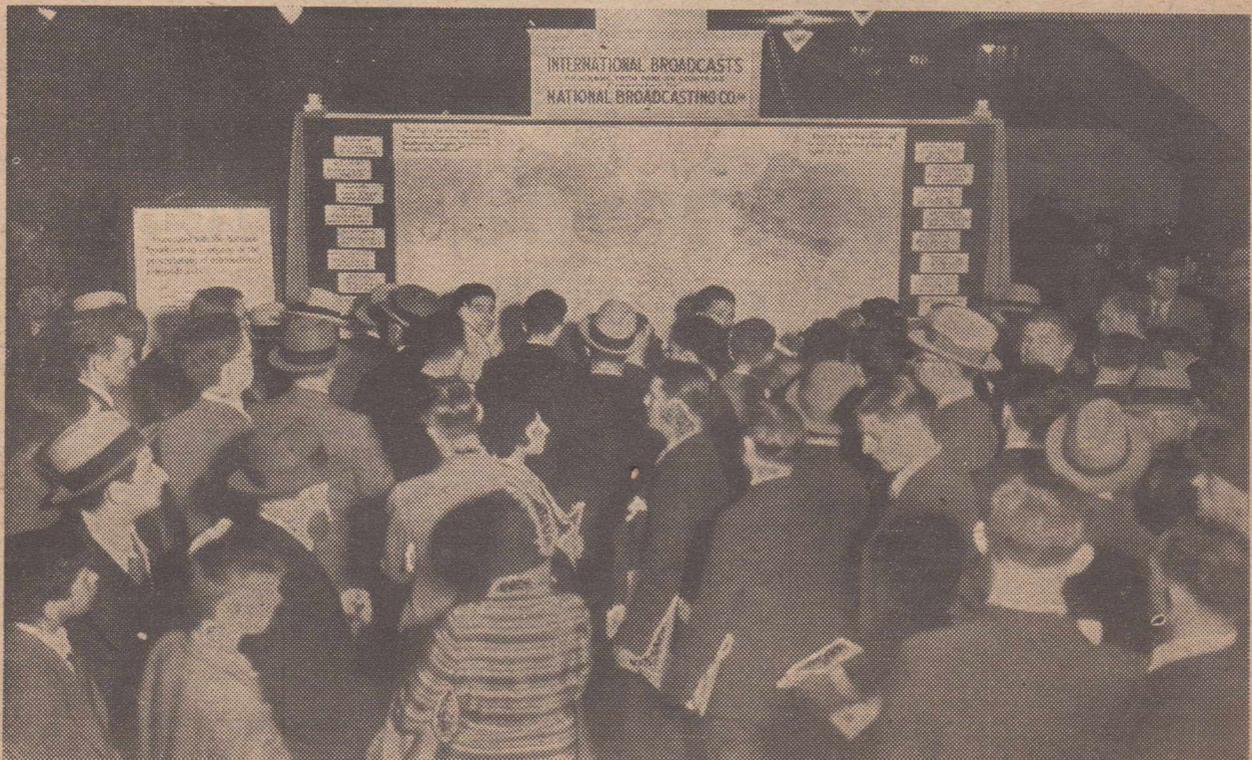
"Radio City" will be the greatest engineering feat of the present century. It will be the broadcasting centre of the world—a huge clearing-house of programmes, as it might be, from which the various stations connected with the National Broadcasting Network may pick and choose according to what they desire.

The National Broadcasting Company is one of the outstanding wireless networks in America. It has stations which extend from coast to coast. All of these are so arranged that they may be linked up to one central station for a simultaneous broadcast, or each may broadcast its own local programme.

The switchboard to be included in "Radio City" is being specially designed. With it, changes may be made instantaneously, programmes may be faded out or in as desired, and stations linked with any notable event in America or, in fact, with any part of the world in tune by short waves.

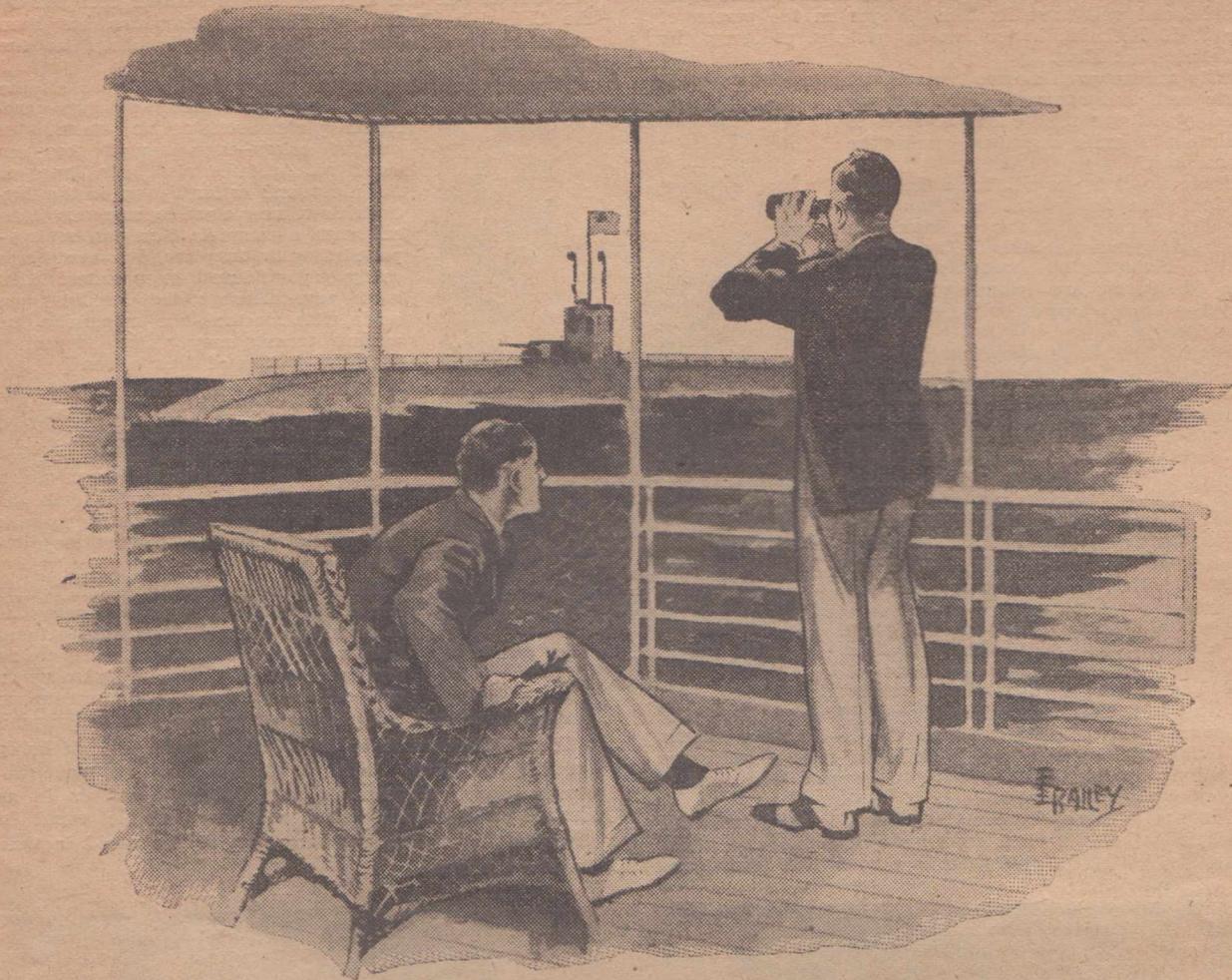


Plan view of the Sunken Plaza, which will be one of the features of "Radio City."



Spectators at the annual Radio Electric World's Fair, at Madison Square Garden, in New York City, were impressed with the display of the National Broadcasting Company which indicated on a giant geographical board, by means of little red lights, the cities and countries where overseas programmes were being picked-up, and relayed over the company's coast-to-coast network, in U.S.A. Commodious offices and studios of the National Broadcasting Company will occupy a considerable space in "Radio City" now being built.

A treasure ship, a submarine attack, and a thrilling rescue in which wireless plays an important part



"I'll stake my reputation that that ship is German built. . . . She is one of those submarine cruisers they built in the late war for long distance work," said Cornforth.

The Private Line

By Julian Storm

COMMANDER PETER CARNFORTH, R.N., looked round the spacious two-berth cabin of s.s. Dramatic, and sighed with satisfaction. Here he was at last, with a deck once more beneath his feet, New York basking in cloudless sunshine outside, and bound for dear old London on a much needed "drop o' leaf," as the Navy calls its leave. Moreover, by the time the sun was over the yard-arm they would be out of the fifteen-mile limit, and he would be able to enjoy an "aperitif" at leisure again, without glancing nervously over one's shoulder between hurried gulps. What more could a man want?

A cloud momentarily darkened his mental horizon, as he reflected that he had yet to meet the other occupant of the cabin; the one blot on what otherwise promised to be a perfect trip.

S.S. Dramatic was one of the latest turbo-electric giants on the Atlantic run, and accommodation had been difficult to obtain, even for one who had until

recently been Naval Attache at Washington, hence his inability to get a cabin to himself. His companion would probably be a dyspeptic American, who thrived on a bad temper and dry toast, with false teeth and a three-ply snore.

At this moment his reverie was interrupted by a commotion in the corridor, and the cabin door burst open. A dangerous-looking projectile, which reminded him vaguely of a Roman testudo, consisting of two large suitcases animated by a pair of grey trousers, was bearing down upon him at a rate of knots. Carnforth avoided a nasty-looking, brass-bound corner by a neat side-step, the swiftness and accuracy of which would have made Jack Dempsey envious.

"Ahoy, there!" he said, as the suitcases deposited themselves with a grunt on to the nearest bunk. "Handsomely, lads, handsomely. You ought to take a turn round something with your braces before you start careering about like that."

"I'm sorry," said the deep voice of the new-comer. "But they are devilish heavy, and I daren't trust them to a porter—"

He broke off and stared for a moment, and then two voices shouted in delighted unison.

"Peter! You old sonuvagun!" from the newcomer, and "P.J., by all that's lucky!" from Peter Carnforth.

Whereupon Lieut.-Commander Pierce-Jones, ex-R.N., and wireless inventor (hereinafter, as those lawyer fellows say, known as P.-J.), seized his erstwhile brother officer round the waist and waltzed him heavily round the cabin.

"Shipmate 'o mine," he warbled, in a voice that made the bulkheads bulge. "Laddie, this is going to be one 'wow' of a trip."

"You've said it!" gasped Comdr. Carnforth, from which it may be gathered that both had assimilated some of the speech of the land of their temporary adoption.

"And what are you doing in this perambulating home for millionaires?" demanded P.-J. some minutes later. "I thought you were still in the service."
 "So I am," said Carnforth. "I've been at Washington for some time, but when my revered uncle was sent over as Britain's representative at this big Gold Conference, I was loaned to him as his assistant. You know how successful the old boy has been for England. In fact, it is no secret that the first fruits of our labor are on board here now. We are carrying the first consignment of £5,000,000 in bullion in the strong-rooms up for'ard."

P.-J. whistled. "Five million 'jimmy-o'-goblins' in loose change, so to speak!" he said thoughtfully.

"Yes, it's a bit of a responsibility, isn't it?" said Carnforth gloomily. "What are you doing over here, anyway?"

"Oh, I've just been kicking around, doing some experiments with wireless, and so on," said P.-J. with elaborate carelessness. "Let's go on deck."

THREE days later, s.s. Dramatic was a bare 500 miles off the Fastnet, the first of the great lighthouses that warns the homeward-bound mariner of the dangerous Irish coast.

They were stretched comfortably in their deck-chairs on the boat deck, enjoying the "best pipe of the day," in the friendly silence that tells of true companionship, when suddenly, from high above them on the towering bridge, came the musical clang of bells. Carnforth sat up with a jerk and stared for'ard for a moment.

"Am I dreaming, or did I hear the engine-room telegraph?" he asked. P.-J. turned his head and blinked lazily.

"You certainly did, old busybody," he rumbled. "Can't they test replies, and see if the old gadget is workin', without you sendin' up distress signals? Let me digest my breakfast in peace."

Carnforth snorted. "Judging from the amount you managed to get outside, you'll have to hibernate for months, like the bears do," he retorted. Then, jerking up again, "Here, P.-J., can't you feel anything?"

"Holy Moses!" said P.-J., waking up at last. "I believe you're right. It's devilish hard to tell with these new-fangled electrics, but I'll bet a radio set to a beetroot we've stopped main engines. Let's go looksee!"

A moment later they joined the knot of passengers already collected at the rail, and an unusual sight met their eyes. About a cable's length away on the beam lay the long, low shape of a huge submarine, the almost imperceptible movement she made in the big swell indicating the vast hulk hidden under the water from the watching eyes high up on the liner's superstructure.

"Hullo 'ullo 'ullo!" said P.-J., who had served all his time in big ships. "Pretty grim-looking brutes, those 'tin-fish,' aren't they?"

"Curious!" he murmured. "I wonder what all the excitement's about!"

"Here comes Marks; let's ask him," replied P.-J., referring to the first officer, with whom the two were already fast friends. "What's the answer, Marks?" continued the speaker as that officer hurried up to them. "I thought you lads never pulled up a crack liner on any pretext whatever—besides the blockade was off, the last I heard of it."

Carnforth didn't reply. With a puzzled expression, he was gazing at her through his glasses.

The First Officer laughed. "Yes, she does look rather like the old 'U' boat, doesn't she?" and turned to speak to Carnforth, without noticing the latter's startled expression.

"We've got one over on you this time, Commander," he went on with a sly twinkle. "It isn't often the Navy calls for help from the Merchant Service, is it? Usually the other way round. As a matter of fact, she's had some sort of accident, and they wirelessed us, a short while ago, for a first-class surgeon, as we were the only ship in the vicinity. Some poor devil is so mangled that their own surgeon daren't touch him. We don't know yet if we can get him aboard to our hospital, or whether we shall have to leave our M.O. to do the job, and follow on in her," and, with a cheery nod, he continued on his hurried way to the bridge.

"So that's it," said Carnforth, heaving a sigh of relief. "But it's rummy all the same."

"What is?" demanded P.-J.

"Well, have a look at her through your glasses, laddie, and tell me if you see anything funny."

"Um!" said P.-J. a few minutes later. "Except that she's the biggest thing in the tin-fish line I've ever seen. I don't see anything particularly rummy about her.—Wait a minute, yes I do, though. She hasn't got any class marks or numbers on her conning-tower."

"It isn't only that," said Carnforth, "but I'll stake my professional reputation that that ship was German built: I know the breed only too well. She's one of those submarine cruisers they built late in the war, for long distance work. She displaces 3000 tons at least, and that is more than is allowed by the Geneva Convention; they had to be broken up. Besides, I never heard of us putting any captured ships into commission."

A large collapsible boat, driven by an out-board motor, had put off from the submarine, containing four men and an officer.

"Here comes her skipper, anyway," said P.-J., who had caught a glimpse of three gold rings on the officer's sleeve. "Let's slip down to the upper deck and have a yarn with him, when he comes aboard."

The two moved down the zig-zagging companions, through the shelter and two promenade decks, to where a rope ladder had already been thrown over the side. They arrived in time to see the captain of the liner greeting the naval commander, as the latter climbed aboard, followed by two naval ratings.

"Curiouser and curiouser!" murmured P.-J. to his friend as they approached. "It's the first time I've ever seen No. 1 rig worn at sea." He pointed to the badges of rank, worked in gold, instead of the usual red or working rig, on an L.T.O.'s (leading torpedo-man) sleeve. "Besides, I don't like that fellow's face."
 "Yes," agreed Carnforth. "And have a look at the officer. He's a three-ringed commander, but he hasn't got any oak-leaves on his cap-peak. I don't like the look of this, P.-J!"

THEY had joined the crowd round the two officers by this time, and failed to notice the actions of the L.T.O. with the peculiar eyes. The latter had started sidling towards the companion that led to the boat deck, as soon as he got on board; and presently glided up it without attracting any attention.

Once out of sight, he moved with a speed and certainty of direction that was amazing; due entirely to a long and careful study of the ship's layout, from a plan provided in the offices of the thoughtful shipping company.

Arriving on the boat-deck, he quickly made his way for'ard, to the space between the bridge and the foremost funnel, where the ship's wireless cabin was situated. Despite warning notices to the contrary, he opened the sound-proof

door without hesitation, and quietly stepped inside.

The wireless-room of the s.s. Dramatic was larger and better equipped than that of her older sisters.

The two operators on duty looked up with polite inquiry at the entrance of the stranger; but their expressions changes to ones of amazed incredulity when they found themselves looking down the barrel of a business-like automatic. Above the weapon gleamed a pair of cold green eyes, while swinging in the other hand the man held a heavy winch-handle.

"Git over to that wall, an' don't try any wise-cracks," said the stranger with a strong American accent.

Neither of the operators attempted to argue. They more than half guessed what was afoot, but a swift glance passed between them as they got up as though to obey. The operators' assistant, who was Irish, sidled slightly to one side, and then, with a shout to his companion, dived for the gun-man's legs.

It was a brave but foolish thing to do. Had they had more experience they would have read the deadly message behind those cold eyes. Also, they were not to know that they were dealing with a man whose life for many years had depended on his speed with a gun.

Irish Mike was dead before he touched the deck, with a bullet through his heart, and the operator dropped back with a smashed shoulder, before either of them had moved a foot—so quick and accurate was the shooting.

Knowing that the sound of the shots would not penetrate the sound-proof walls, the American lost no time, and, callously ignoring his victims, set to work to wreck the set with the winch handle. He did more havoc in three minutes than could be replaced in ten times that number of hours.

Leaving the wounded operator to shift for himself, he slipped along to where the emergency set was installed on a big raft, lashed down to the flying deck. Here he completed his destructive work, and swiftly returned to where he had left his chief. So quick and efficient had he been that barely five minutes had elapsed since he had slipped through the crowd on the deck below.

Here he found the whole atmosphere had already changed. The submarine commander had dropped his pose and got down to business with a brusqueness that banished all doubts as to what he was after.

One of his men was already on guard near the bridge, keeping a watchful eye on the captain's quarters, where he knew the ship's arms were kept.

In the meantime, with an ugly automatic in his hand, the pseudo-commander gently pointed out that, at the first sign of resistance, he would have no compunction in raking the passenger accommodation of the ship with the wicked-looking 15-pdr. gun that was now cleared for action on the fore-deck of the submarine. He much regretted that women and children should be exposed to such danger; but if the captain was sensible, and opened the strong-rooms and allowed him to remove the gold without interference, nothing of the sort would happen. Further, should the captain think his superior speed would save him, and attempt to get his ship under way, he would be forced, much against his will, to put a torpedo into her stern.

"Finally," he finished, understanding the nod of his subordinate coming down the companion, "as your wireless is now destroyed, and you cannot call for help, even if it were any good, I must ask you to order all passengers to their cabins, and to remain there until we are clear."

(Continued on page 62)

Broadcasting in America

Too Much Advertising Irritates Listeners

THE only cost to the radio listener in the United States of America is the amount he pays for his receiving set. There is no licence fee demanded by either the Government or the National Broadcasting Company of America.

The revenue of N.B.C. is derived from advertising firms which buy certain hours and provide the programme. This, of course, is interspersed with advertisements of their various commodities, business service, in fact, anything and everything that needs publicity. Advertising on the radio broadcast has reached to such dimensions that often only a short part of the time allotted to some firms and advertisers is devoted to entertainment. A concert by a famous orchestra may be listed on the programme sponsored by a certain firm. One tunes in to the station hopefully, but one has to endure so much talk about the firm's product, or business whatever it may be, that very little time is left for the music.

Tempted to give up in disgust, the listener shuts off the irritating advertisement, only perhaps to find, when tuning in later, that he has missed half of the item on the programme he wished to hear.

The N.B.C. also supplies entertainment as well as the advertising firms, or radio would become so unpopular that it would cease to be a payable proposition. Artists are engaged and paid by N.B.C. for special features, operatic productions, soloists, and orchestras, but a great part of their broadcasts is obtained at no cost to the company, which considers that the publicity obtained by the speaker or performer is sufficient payment.

Enormous fees are paid to popular entertainers such as "Amos and Andy," who are supposed to have more listeners than any other stars, and to Evangeline Adams, an astrologist, who plays on the credulity of people by advising and foretelling their actions according to the stars under whose influence they were born! The police were being given instructions, at the end of August, to raid all fortune tellers, tea-cup readers, and astrologers, so probably Evangeline Adams would be deleted from N.B.C.

One of the busiest places in New York is the N.B.C. station in Fifth Avenue, at 55th Street. Hundreds of people

crowd the elevators all day long—performers and would-be performers, hopeful aspirants who have at last received notice of an audition after months of waiting and inquiries of all description. On each floor is a large entrance lounge where a "hostess," as she is called, receives the visitors. Listeners to their requests, and arranges appointments. All of these hostesses are very charming and courteous, and the well-furnished lounges, decked with gay flowers, are very restful.

As one enters the thick padded doors of the broadcasting studio there is a cheerful scene. Chatting and laughter amongst those who are to give the programme, tuning of many instruments of the orchestra, last minute directions to accompanists and speakers. The studio is beautifully cool, even on the hottest days of summer, as there is a very efficient air-cooling system. Electric fans, of course, could not be used owing to the noise of their whirling propellers.

The moment the programme begins there is an instant hush as the hand of warning is raised. Thereafter not another sound must be made, as the "Mike" is ready for transmission.

Each performer or speaker has been carefully timed and tested days before, so each knows what he has to do.

A large glass partition separates the engineer's room from the studio, and all directions and interrogations are carried out by signals and pantomime gestures. The announcer has his whole programme for the hour written out, even to the playful comments he intends to make at the announcing of the various items of the orchestra.

An amusing incident occurred one afternoon when the writer was waiting for her turn to speak. The announcer had divided his programme into three parts and the orchestra had all their music in order for each announcement. The first part went smoothly, but in a moment of temporary aberration the announcer started on part three. Instantly the conductor of the orchestra, Vincent Lopez, saw the mistake and signalled his men. The change was quickly made, and a catastrophe averted.

When the transmission was finished the announcer breathed a deep sigh of relief, and said, "Thank you, Vincent! You saved my life!"

What's on the Air for Women?

Dear Sylvia,—

I HAD the good fortune to be present at the first meeting of the 3DB Women's Friendship Club, organised by Miss Iris Turnbull and Miss Margaret Manning, who conduct those very helpful morning talks for women from this station. The afternoon was a huge success, Sylvia, and even the musical programme included items by one of the listeners. This club is very rightly named, because the chief impression I gained was the friendly atmosphere which pervaded this meeting.

Prizes were awarded to listeners who sent in the best suggestions for the month to each of the four sessions of the Women's Radio Service. Afternoon tea was served in the attractive studio.

This club is sure to bring a great deal of happiness in its wake.

Beauty Suggestions

NOW that the swimming season is upon us, we would do well to listen to the helpful beauty suggestions given from the various broadcasting stations during the women's talks. I listened to Madame Jeanette speaking from 3UZ recently, when she gave some advice for refining and toning up the skin. She advised the woman who has a skin of normal texture to use this lotion—one teaspoonful of almond meal, one teaspoonful of oatmeal, the strained juice of one lemon, and an amount of water equal to the amount of lemon juice.

For those women who have slightly dry skins, this speaker advised the use of two teaspoonfuls of almond meal, with the other ingredients as above. On the other hand, the woman who has a skin which is inclined to be oily should use in this lotion two teaspoonfuls of oatmeal and only one teaspoonful of almond meal, using the same amount of lemon juice and water as in the first formula.

Christmas Cakes

I NOTICE that Miss E. H. Eddy is dealing with the subject of Christmas cakes at her next cookery talk from 3LO next Tuesday. This experienced speaker has been conducting cookery classes at

the Domestic Homecraft Exhibition at Capitol House.

Here is an economical Christmas shortbread recipe which was given from the Diet and Cookery Session of the Women's Radio Service from 3DB recently.

CHRISTMAS SHORTBREAD (Economical).—½ lb. flour, 2oz. sugar, pinch of salt, ¼ lb. margarine (or butter); ½ oz. lard, ½ teaspoonful vanilla essence. Butter a shallow oblong tin measuring approximately 10 by 1in. Mix the dry ingredients and rub in the butter. Work with the hand until the shortbread is thoroughly pliable. Press evenly into the tin, taking care to avoid thin edges. Pinch the edges and bake in a moderate oven for about ¾ hour or until pale brown and firm. Cut into fingers and turn out when cold.

VIRGINIA.

TALKS TO WOMEN

Subject	Speaker	Stn.	Time and Day
"Home Gardening"—"Iris"	Mr A. Antonio	3LO	2 p.m. . . Nov. 23
"Summer Foods"	Dr. John Dale	3AR	3 p.m. . . Nov. 23
"Women in Sport"	Miss M. A. Beckingsale	3LO	6.35 p.m. . . Nov. 23
"Fashions and Beauty Hints"	Miss Iris Turnbull	3DB	11 a.m. . . Nov. 24
"Christmas Cakes"	Miss E. H. Eddy	3LO	2 p.m. . . Nov. 24
"Homecrafts and Interior Decoration"	Margaret Manning	3DB	11 a.m. . . Nov. 25
Session for Women	Hattie Knight	3LO	2.10 p.m. . . Nov. 25
"Berry Preserves"	Miss A. Knight	3LO	7.25 p.m. . . Nov. 26
"Some Christmas Suggestions"	Miss Benningfield	3DB	11 a.m. . . Nov. 27
"Planning Your Child's Future"	Mr G. R. Giles	3AR	3.45 p.m. . . Nov. 27

Some Letters from Listeners

3LO and Favoritism—Sunday Evening with Sandy McNab—Appreciation — Criticism of Band Music Desired.

Address: The Editor, The Listener In, 62 Flinders Street, Melbourne.

THOSE PROGRAMMES

Sir,—In your issue of 24/10/31, "Hopeful" complains of the "Wretched and untuneful classical music" which is put over the air, and explains his attitude very clearly in the following words:—"Not 10 per cent. of listeners are sufficiently musically educated to appreciate this class of programme, nor do they want to be." Where ignorance is bliss, 'tis folly to be wise. "Hopeful" has an easy remedy, as he can tune in another station putting over some Yankee rubbish, so aptly described by "Floreat Jazz" and "Another G.A." in your issue of 31/10/31, also by "Anti-Adenoids" in L.I. 7/11/31.

I can appreciate classical music, and enjoy decent jazz, a march, or a humorous item, but I detest the abominable noises made by Yankee jazz bands, and



the weeping, wailing sob-stuff, per medium of the nose, which in most cases constitutes the so-called vocal refrain. It is high time we had an "All-British Empire Drive" in the realm of jazz.

"Be Fair" (L.I. 7/11/31) unjustly accuses 3LO of favoritism. This station is to be commended on its action in this matter, and the daily press clearly stated that the initiative in the action mentioned was taken by a member of the controlling body of the Church, at the request of 3LO.

In conclusion, I wish to thank The Listener In for the very interesting reading matter published, and I feel sure that if the programmes were followed by those who complain about our broadcasting stations, they would be able to find something to suit them, and would thus be saved the trouble of writing complaining letters. Constructive criticism such as that under the heading "The Critics Tune In" is never objectionable, and it is to be hoped that this spirit will very shortly become much more general.—Yours, etc.,
Pt. Lincoln, S.A. "TYRO."

SANDY McNAB

Sir,—Last week a letter in The Listener In castigated 3DB for its Sandy McNab programme, saying that this commercialised the Sabbath. The nicest thing I can say about this letter is that it is unkind. 3DB has dropped the broadcasting of church services, which cost nothing to put on the air, and, in a spirit of service, is spending a considerable sum each Sunday on this new feature, and we are then called "Commercial!" Actually, "Sunday evening with Sandy McNab," is a thoughtful attempt to provide a religious programme suitable to people of all creeds. It involves a lot of work and expense from which 3DB can hope for no financial return. If we cannot arouse the enthusiasm of listeners we certainly hope for their sympathetic interest.

By the way, 3DB does not earn any revenue from its Sunday evening programmes, and steadfastly refuses all advertising.

Another critic of 3DB last week blamed us for not apologising when we changed our Women's Radio Service programme from that published. The only case in which we are guilty occurred recently when a speaker was refused the air at the last moment because his material would have offended women. He made a nuisance of himself, flustered the women and they forgot to apologise.

The criticism hurts because 3DB prides itself on station efficiency.
D. WORRALL, Manager 3DB.

A SUGGESTION TO THE A.B.C.

Sir,—I would suggest that the A.B.C. make a relayed description of the last half-hour each day during the coming Test matches from either 3LO or 3AR from whichever ground the Test matches are played on.

During the last season listeners had to wait a long time for the scores when they were played in other States.—Yours, etc.,
"VICTORIAN TEST CRICKETER LISTENER."

APPRECIATION

Sir,—I wish to thank 3DB for its enterprise in bringing Captain Ballentine to the microphone during the cricket match between South Africa and Victoria. Captain Ballentine's resume on the day's cricket was excellent. I hope 3DB will make arrangements during the Test matches for Captain Ballentine to speak on the day's play.—Yours etc.,
CRICKET LISTENER.

Sir,—I wish to express my appreciation of the vaudeville programme presented on Monday evening, November 9, to which Mr Hector St. Clair contributed some amusing items.

In this time of depression, such enjoyable humor is most welcome.—Yours etc.,
Mont Albert. L. BRIEN.

Sir,—I wish to tender my thanks to the Shell Company for the excellent selections given through 3DB. It is a great pleasure to listen to the splendid numbers, and I trust the high standard will be maintained. As regards the Sundowners' Quartette, I consider that it is the best ever heard over the air, and I agree with "F.M." that anyone unable to enjoy its numbers must be lacking in an appreciation of good music.—Yours etc.,
Canterbury. G.W.W.

Sir,—Permit me to say how thoroughly I enjoyed Sandy McNab in his party broadcast from 3DB last evening. Eh, mon, 'twas fine. The old familiar hymns were so beautifully sung and the humor so perfectly wholesome. Please keep it going. It will, I am sure, give great pleasure to an immense number of listeners.—Yours etc.,
Geelong. A MINISTER OF RELIGION.

BAND CRITICISM WANTED

Sir,—I have been following with interest William G. James describing the best music for the week, also Louis Lavater. The Listener In's musical critic. Some time ago Mr Lavater used to give an educational criticism on the

playing of the various brass bands, but of late he has not been including the brass bands. Is there any chance of arranging with Louis Lavater to give a constructive criticism on the playing of the various brass bands broadcast from time to time?

Could it also be arranged to have William G. James to describe the music each week to be played by the brass bands? If that were done every amateur bandmaster would have a thorough knowledge of the structure and meaning of every movement in most of the difficult selections played by the various first grade bands from Melbourne. The country bandmasters would be able to teach them with some show of authority if he had a real love for music.—Yours, etc.,
BAND MUSIC LOVER.

[We think this suggestion is a good one, and are passing it on to our Musical Critic.—Ed. L.I.]

FRIEND MAURICE

Sir,—What of Maurice Dudley? He has vanished without a word of explanation after becoming quite one of the family circle of acquaintances over his years of "Three-El-Oh-Melbourne."

Surely this grand old man of radio should not fade away with never a par for farewell.—Yours, etc.,
"MT. GAMBIER LISTENER."

(Mr Dudley, who has been very ill, is recovering slowly, and it is hoped that he will soon be back at his accustomed place at the microphone.—Ed. L.I.)

MY CANARY

Sir,—A word to all those listeners who are everlastingly complaining about "My Canary." This song, I admit, is ridiculous, and speaks of things that could not happen; but if all our songs were about things that do happen, think what sordid things some of the songs would be. In these times of depression we want something bright and silly to take



our minds off the dismal things that are happening around us. I sincerely hope no notice will be taken of all the letters you have published from readers who are against American records. Personally, I think the only chance we get of hearing real vocalists and dance bands is through these records. Thanking you for your courtesy.—Yours, etc.,
"CHEER UP."

P.S.—May I suggest that anybody who thinks our orchestras are better than American listen for a few minutes to one of our dance bands any night and compare it with the poorest American combination.



THE CRITICS TUNE IN



The Classical Music Reviewed

By LOUIS LAVATER, The Listener In's Musical Critic

VICTORIAN PROFESSIONAL ORCHESTRA

ON Friday night, November 13, a programme given by the Victorian Professional Orchestra was transmitted from the Melbourne Town Hall through 3LO. Robert H. McAnally conducted.

The opening number was Meyerbeer's "Coronation" march from the opera "Le Prophete." With the exception that, as sometimes happens, the performance sounded "hollow," as if given in a tank, it was a spirited rendering and came through well.

A still better number—perhaps the most satisfactory of the evening—was Mendelssohn's overture known as "Fingal's Cave." The restless surge of the ocean and the delicious fragments of melody working up to exciting climaxes were perfectly heard. It was an unusually good transmission.

Then Florence Ericson sang (with piano accompaniment) the aria "Casta Diva," from Bellini's opera "Norma." The recitative was delivered with considerable dramatic power, the air more quietly, but still with emotional coloring. The voice was fresh and vital, but lacked something in flexibility. There were symptoms also of tremolo when pressure was applied. At "Return, O My Beloved," genuine feeling was conveyed to the listener. An "encore" number, "Music, When Soft Voices Die" (Maurice Besly), showed good taste and musical feeling. All through the words were distinctly heard.

The orchestra then played the chief item, Tchaikowsky's Sixth ("Pathetic") Symphony. There were a few flaws here: the horn once entered flat, but was afterwards "humored" successfully (this was in the first movement), and in the slow movement there were slight differences in intonation among the wind instruments; the tone in the scherzo was too heavy; and the opening of the last movement was a little ragged. The pizzicato scale-passage, however, which occurs at the end of the slow movement, and the court points in the scherzo, were excellently done and came through well.

From a musician's point of view it was unfortunate that the finale was interrupted in the middle by a discourse on the "Prosperity" campaign, delivered by the Federal Treasurer, E. G. Theodore.

Mabel Nelson followed with a very well played group of piano works, mostly modern. A Chopin polonaise was succeeded by Chassin's "Flirtation in a Chinese Garden," light stuff, but neat and clever. Then came Grainger's "Colonial Song," in his manner of repetitions slightly varied; "Quand il Pleut" ("When It Rains"), by Buishneff, good descriptive stuff, and Grainger's "Irish Tune from County Derry," with his own band of contrapuntal accompaniment. All these clear and interesting.

The conductor (Robert McAnally) here introduced a composition of his own, a tone-poem for orchestra, entitled "Life Triumphant." It was

fairly well played, and the orchestration is skilful, but one did not at first hearing retain any memorable theme.

The intermezzo from Mascagni's "Cavalleria Rusticana," and the "Barcarolle," from Offenbach's "Tales of Hoffmann," were bracketed for the next number. The latter was the best played, and, moreover, owing to the thin, clear texture of the scoring is better suited for broadcasting. It came through beautifully.

Another tone-poem of the conductor's, "The Philosophy of Life," was now begun. I say "begun," because I did not hear it all; at the sounding of the bells I thought the end had come. This is a work of inordinate length, and difficult to follow without the accompanying "story." Moreover, I heard many obviously wrong notes, and it is clear that, though some parts sounded impressive, others were in need of more rehearsal.

The Tchaikowsky Symphony and these two tone-poems were "much too much" for one programme, and I had to miss the rest.

Sunday Night Programme

ON Sunday night, November 15, through a slight fault, which, however, it took some time to locate, I missed the early part of the programme at 3LO, which I had planned to hear.

The first number I got in its entirety was a brace of part-songs, "My Love is Like a Red, Red Rose" (Cyril Jenkins), and "Comrades in Arms" (Adolphe Adam), sung by the Victorian Postal Institute Choir, under George English. The choir showed fine balance of tone, clean attack and release, and well-managed contrasts of loud and soft. The

delivery of the second song was most dramatic and effective.

The A.B.C. Light Orchestra then played incidental music to "The Merchant of Venice" by Fred Rosse, not very striking; though a slow waltz-subject and the freakish march-like final were not unpleasing. This composer is not afraid of monotony, for he repeats figures of accompaniment without variation for considerable periods at a stretch.

The Postal Institute Choir then sang Granville Bantock's beautiful and original "On Himalaya" very expressively, though the intonation was not always perfect. Elgar's "My Love Dwelt in a Northern Land" was perhaps better sung in this respect, but the music, though effective, lacks the charm of the former item.

Allan McCristal, pianist, then gave a short recital, opening with Brahms's Caprice in B minor. This genial little work was neatly shaped and the finger-work was exceptionally clean.

Five of Chopin's shorter preludes followed, of which the first and last were the best. Those in G (ostinato in left hand) and F (ditto in right hand) were the least satisfactory in that the rapid figures of the ostinato were blurred.

The Light Orchestra then played three movements from Delibes's "Sylvia" ballet, of which (much to my surprise) the "Pizzicato" came through best.

The choir's final number was "Worthy is the Lamb," from Handel's "Messiah," sung with fine vigor and true intonation.

H. Green, flautist, then gave three short numbers of which I unfortunately (owing to the fault already referred to) had to miss the first and most important.

Recent Popular Broadcasts

By "CRITICUS"

"An Ideal Husband"

MORE than any form of entertainment, perhaps, save music, is the English comedy naturally adapted to wireless. Plays from such diverse dramatists as Shaw, Milne, and Wilde seem to come over the air with equal ease.

In Wilde's "An Ideal Husband," broadcast from 3LO on Tuesday night, there was not a difficult moment. The tangle of voices which greeted one on the opening of the first act, quickly straightened itself out, and, from then on till the end, each character stood out clearly.

This was thanks, naturally, not only to Wilde, but to producer and actors. Evident care had been taken to fit each role suitably, and the voices matched the characters remarkably well.

Lady Markby, though a comparative pawn in the game, was quite outstanding in this respect. Her crisp voice, touched with an occasional drawl, painted in a few deft strokes a personality we have all met at times. A woman of middle years, to whom life has been so amiable that she can afford to pass on this ami-

ability, she is the possessor of a manner inconsequent enough to call forth the remark of Mrs Cheveley's "she talks more, and says less, than any woman I know . . ." yet manages to slide forward under this manner as many quick comments as anyone in the play.

Mrs Cheveley was excellent. And here we must thank the player more than the playwright. It is not easy at any time to make of an adventuress a convincing character, and the Mrs Cheveley, according to Wilde, is frankly, at times, a rather improbable character.

Clever people often make false steps, certainly, but to force a character of any brains at all to steal a unique ornament, and then wear it at a gathering at which she might meet any number of her victim's friends, is rather a too violent sacrifice of psychology to plot.

Yet the voice which controlled this part was so good that it took the edge off this crudity. Very fine and clear, it managed the scene with Sir Robert Chiltern exceedingly well, smoothing out any possibility of melodrama with its

(Continued Opposite)

TALKS TO TUNE TO 3LO, 3AR. November 22 to 28

Subject	Speaker and Title	Station.	Time and Day
Popular Science	Dr. O. V. Tiegs "Evolution"	3AR	8 p.m., Monday . 23
	Dr. R. D. Collman "Everyday Psychology"	3AR	8 p.m., Tuesday . 24
	Prof. N. Greenwood "The Use of Metals by Early Man"	3LO	7.25, Wednesday . 25
	J. Stanley Rogers "Physical Science"	3AR	3.30, Thursday . 26
Art and Literature	Kathleen Booth, B.A. Haslet on "Going on a Journey."	3AR	5.30, Sunday . 22
	Stephanie Taylor "Two Statues by Rodin"	3AR	12.15, Monday . 23
	N. Benporath "National Gallery Treasures"	3AR	12.15, Tuesday . 24
	Prof. G. H. Cowling Milton's "Paradise Lost," Part 2	3AR	3.30, Tuesday . 24
	Capt. C. H. Peters "The Literary Log-Book"	3LO	7.45, Thursday . 26
	J. Howlett Ross Recitals from School Literature	3LO	6.35, Friday . 27
History and Travel	Harold Browning "Songs and Their Singing"	3LO	7.25, Saturday . 28
	George Matthews "An Infidel in Islam"	3LO	7.10, Sunday . 22
	Miss M. Link "Vienna Sidelights"	3LO	2.30, Tuesday . 24
	W. Richard Norris "Niagara Falls to Geneva"	3AR	3.0, Tuesday . 24
	Miss Frances Fraser "Aberdeen and the Dee Side"	3LO	7.45, Tuesday . 24
	Capt. Donald MacLean "The White Arab"	3AR	12.15, Wednesday . 25
	J. Howlett Ross "Notable Australians—Francis Ormond"	3AR	3.45, Wednesday . 25
	C. R. Long, M.A. "Early Banking and Finance in Melbourne"	3AR	3.0, Thursday . 26
	W. H. Ellum "Cement Creek and the Acheron Way"	3AR	8.0, Thursday . 26
	H. Burton "Australian Settlement and Self-Government"	3AR	3.0, Friday . 27
	Anthony Bridges "Forgotten Turnov"	3AR	2.0, Saturday . 28
	Capt. Donald MacLean "The Tichborne Claimant"	3LO	7.45, Saturday . 28
Farm and Garden	A. Antonio Gardening—"Iris."	3LO	2 p.m., Monday . 23
	H. W. Davey "Current Orchard Work"	3LO	7.25, Tuesday . 24
	R. Lee "Chrysanthemums"	3LO	7.25, Friday . 27
Health and Home	Dr. J. Dale "Summer Foods"	3AR	3 p.m., Monday . 23
	Miss E. H. Eddy "Christmas Cakes"	3LO	2.0, Tuesday . 24
	J. S. Gawler "Homes and Gardens in Australia"	3AR	8.0, Wednesday . 25
	Miss A. Knight "Preserves"	3LO	7.25, Thursday . 26
	Miss B. L. Osborne "Home Decorative Effects"	3LO	2.0, Friday . 27
	G. R. Giles, B.Sc. "Planning Your Child's Future"	3AR	3.45, Friday . 27
General	"The Watchman" "The News Behind the News"	3LO	7.35, Sunday . 22
	Rev. C. Irving Benson "Questions and Answers"	3AR	1.45, Sunday . 22
	"The Financial Barometer" "Stock Exchange Activities"	3LO	7.25, Monday . 23
	Dr. G. L. Wood "Man—The Maker"	3AR	3.30, Monday . 23
	The Watchman "At Home and Abroad"	3LO	6.35, Tuesday . 24
	Mons. Rouel and W. H. Frederick "French Pronunciation"	3AR	3.0, Wednesday . 25
	Mme. Soward "French"	3LO	6.35, Wednesday . 25
	H. K. Love "Radio Service to Listeners"	3LO	7.45, Wednesday . 25
	The Watchman "At Home and Abroad"	3LO	6.35, Thursday . 26
	"Scribe" "On Domestic Pets—The Cat & the Dog"	3AR	12.15, Friday . 27
	Charles Nuttall "Everyday People—The Country Doctor"	3AR	8.0, Friday . 27
	Sporting and Descriptive	Miss M. A. Beckingsale "Women in Sport"	3LO
E. C. H. Taylor "School Life and Sport"		3LO	7.45, Monday . 23
Eric Welch Description—Bendigo Cup Races		3LO	2.0, Wednesday . 25
Eric Welch Bendigo Cup Races—2nd Day		3LO	2.0, Thursday . 26
From 4QG, Brisbane 1st Test Match—Aust. v. Sth. Africa		3AR	1.15 p.m., Friday . 27
Eric Welch Tomorrow's Epsom Races		3LO	7.45, Friday . 27
Descriptions "Henley"		3AR	2.15, Saturday . 28
Eric Welch Epsom Turf Club Races		3LO	2.15, Saturday . 28
From 4QG, Brisbane 1st Test Match—Aust. v. Sth. Africa, 2nd Day	3AR	1.15, Saturday . 28	
From 4QG, Brisbane Summary of Day's Play	3LO	10.15, Saturday . 28	

RECENT POPULAR BROADCASTS—(Continued from opposite page)

naturalness — the type of voice which has probably helped many ladies of this ilk to rich reward.

Sir Robert Chiltern himself was also good. His even, rather heavy voice was very pleasing, and revealed easily a man who, having made one bad slip in his youth, has spent the rest of his career in sincerely trying to run straight. His state of mind when asked to choose between exposure and another slip worse than the first was portrayed with simple restraint.

His wife's accent followed her character like a glove. The quiet inflexible voice to which this part was entrusted could not have been chosen better. It was not really attractive, but then Lady Chiltern is not an attractive person. A woman living her deep, narrow life with the intensity with which the Victorians did live, knowing black and white, but no shades in between, hard as nails and not at all appealing from the 20th century standpoint, she yet claims our interest by her very rigidity.

Only once did she fail to convince, and here again Wilde himself was to blame. There was something irritatingly unnatural in her intense anxiety over the discovery of her letter in Viscount Goring's flat.

Viscount Goring is a type very popular with certain English dramatists. He seems so much a lily of the field that we feel sure he is going to be particularly useful before the end of the third act, and we are not disappointed. The voice itself was an attractive one; clear and crisp; eminently well suited, as was Mrs Markby's to Wildian wit.

It is this last, of course, which saves "An Ideal Husband" from being merely a mechanical play with a rather banal end.

Characters may squeeze themselves into various strange shapes to suit the plot, but while they make remarks such as "Surely Providence can resist temptation by this time! . . . Women can discover everything except the obvious. . . . It is dangerous to be too modern;

it's apt to grow old-fashioned so suddenly . . ." who grumbles?

"For Valor"

This play, specially written for Armistice Day by the Melbourne author, John Scott Simmons, was an interesting example of what can be done over the air in the way of quick scene-changing. In fifty minutes one was taken through a boy's life, commencing with his parents' comments on him in his cradle, and ending with their rejoicing when he returns from the Front, and his subsequent comments on his son.

Certain scenes, such as the dinner-table conversation between Mr and Mrs Rutherford, and their son, Hugh, were most natural. The talk was typically that of any family at dinner, and Hugh managed a very good boy's voice.

The boat-race scene gave 3AR good opportunity for sound effects, and the station certainly availed themselves of it. A really vivid picture of the Yarra, with its wildly excited banks, its maze of voices, sometimes muffled, sometimes swelling louder, came over the air.

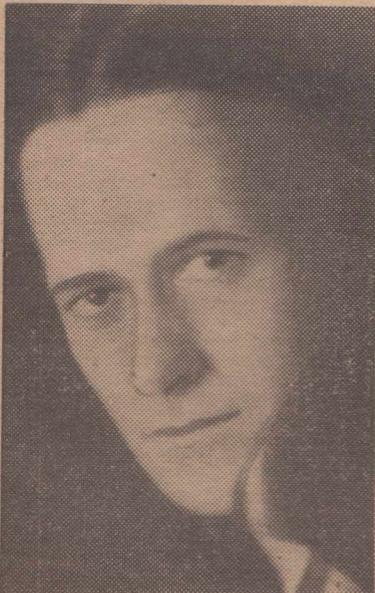


W. H. L. MAWSON, A.L.C.M., conductor of the Hawthorn Banjo Club, to be heard over 3AR, November 28.

"Shamus O'Brien"

A LOVABLE gossoon, a bewitching colleen, bands of soldiers, the cry of the Banshee under the Irish moon—all these play their part in the romantic comic opera, "Shamus O'Brien," which is being relayed from 3LO to 5CL, Adelaide, on November 23. The story (which is founded on the poem of Jos. Sheridan Le Fanu, and set to music by Sir Charles Villiers Stamford, the famous Irish composer), concerns the fortunes of Shamus O'Brien, the beloved outlaw, who has a price on his head, and the scene is laid in the village of Ballyhamis, in the mountains of Cork, at a time immediately after the suppression of the rebellion of 1798, when the loyal villagers are seeking to shelter their hero.

But one, Mike Murphy, who is enamored of Shamus' wife, Nora, and stirred by greed of gold, turns informer, and promises (for the reward of 100 guineas) to lead Captain Trevor, of the British Army, and his men to the house where Shamus is hiding. Mike leads the way, but ere the soldiers reach the house Shamus has heard of their approach and appears in the disguise of the village idiot. In this guise he persuades Captain Trevor that he knows where Shamus is hiding, and following the "idiot" the Captain and his men are led by Shamus into a bog. The pursuit of Shamus—assisted by Mike Murphy—does not end with this, however, and there are many



JOHN WARREN, tenor, who will be heard from 3LO on Tuesday, Nov. 24.

A Tour of The Studios

Gossip about this Week's Programme Features and People in the Programmes, gleaned from a visit to the Broadcasting Stations.

other exciting incidents before the play reaches its conclusion.

Well-known operatic artists will be heard in the leading roles, and the ensemble numbers—in the hands of a specially chosen chorus, and under the direction of William G. James—will complete an excellent performance.



ART CHAPMAN, who regularly conducts the Rex Orchestra over 3LO and 3AR.

"Ma Mie Rosette"

A REPEAT performance of "Ma Mie Rosette," a romantic comedy opera, in two acts, by Paul Lacombe and Ivan Caryl, will be given from 2FC, relaying to 3LO on Friday, November 27. The opera, which has a delightful old-world atmosphere, to which the charming melodies contribute, created a furore when it had its Australian premiere at the old Princess Theatre, Melbourne, when the late Nellie Stewart, in the hey-day of her youth and charm, played Rosette.

The period of the play is in the days of the French King, Henry of Navarre, and is the story of the village belle, Rosette, and her love for one, Vincent, a young gardener. The A.B.C. Light Opera Company will present this attractive musical play.

Henley-On-the-Yarra

MELBOURNE'S great water pageant Henley-on-the-Yarra, will be held on Saturday, November 28, and as well as being a delightful spectacle for those present to witness, it will also provide those who stay at home with a picturesque broadcast—and some little excitement.

The picturesqueness will come from the description of the scenes on the river bank, where the fair sex will be seen in their Spring and Summer finery, and the excitement . . . ! Well, that will come from the relating of rowing races in which the interstate competitive spirit will be much in evidence.

Crews have come from Queensland, New South Wales, South Australia and West Australia, while scullers will also be there from every State for the important sculling races, such as the Grand Challenge Sculls and the Diamond Sculls.

From a carnival point of view, Henley is Melbourne's most spectacular function, and 3AR is making the most of it in their broadcasts on this Saturday.

"The Sun Vow"

FROM 2FC on Thursday, November 26, an enjoyable programme will be presented to listeners in which the outstanding attraction is "The Sun Vow," a romantic North American fantasy, adapted for broadcasting by John Bevan, and presented by the A.B.C. Players.

The scenes are a backwater of the River of Leaping Waters—the Waters of Mairama—and the mountain village of Tarshinga, and the story is that of tribal warfare between the rival chiefs, Ranaoake and Tarshinga. It tells of the treachery of the former, who by false moves towards peace desires to overthrow Tarshinga—and how the latter calls upon the Sun God's wrath to avenge the wrongdoing of his rival.

'Strad Trio Pianist

MISS MAY BRODERICK is the pianist of the Strad Trio, who is to be heard next week from 3DB, in its Household Harmonies Hour, at 2.15 p.m. Miss Broderick—who in private life is Mrs Cecil Parkes—is a former student of the late Benno Scherek, Edward Goll and A. G. Nickson. She has had wide concert experience, and was selected by the Sistine Choir while in Australia as the ideal pianist for their rehearsals.



MISS MAY BRODERICK, pianist of the Strad Trio, now being heard from 3DB.

Joseph Bates

LISTENERS to 3LO and 3AR this week may have wondered, if they tuned-in in the middle of a Joseph Bates item, how it was that these stations were playing Maurice Chevalier records in the middle of their ordinary evening session. But the familiar voice crooning "You've brought a new kind of 'lov' to me", was not that of the fascinating Maurice but of his Australian imitator, Joseph himself, who has for some time past been singing the songs of the favorite Frenchman—accent included.

Mr Bates was recently heard at the Capitol Theatre during the season of Maurice's "The Smiling Lieutenant," when he gave his imitations to Wurlitzer accompaniment, and it was after this that he was given his opportunity to broadcast from the Melbourne "A" class stations.

Mr Bates first broadcast at the Queensland Radio Exhibition some five years ago. At the time he was appearing at the Bohemian Theatre, in partnership with Blanche Burns, and since then has been on the air regularly with 4QG. He has also been heard from 7LA, Hobart.

"Household Pests and Their Control"

MR T. McCARTHY, Senior Assistant Entomologist of the Department of Agriculture, will give a talk on "Household Insect Pests and Their Control," from 2BL at 6.45 p.m. on Tuesday, November 24.

The study of economic entomology includes the study of the investigation of the life history and control of various species of insect pests that affect the welfare of man, both from the point of view of his health and the various phases of his activities. Perhaps one of the most important is the study of household insects, which may affect man by attacking the human body, and also his own personal property.

Composer-Comedian From 3AR

THOSE who enjoy something really funny (and who doesn't?) must not forget to tune in to 3AR on November 23, when Alf Lawrence and his versatile partner, Nell Crane, will be heard in two original comedy numbers. It is some time now since Mr Lawrence leapt into fame by writing the popular melody, "I Wouldn't Leave My Little



ALBAN WHITEHEAD, baritone, who will contribute vocal numbers to the Dance programme over 3LO on Thursday, November 26.

Wooden Hut for You," but he has steadily added to his successes ever since, and his songs have been popular on both sides of the Atlantic.

"The Enemy"

A PLAY in four acts by the distinguished American playwright, Channing Pollock, will be broadcast from 2FC and 2NC on Sunday, November 24, at 8.45 p.m. with the A.B.C. Players, and will be relayed to 4QG and 4RK.

The four acts of the play will take place in Vienna in June, 1914-August, 1919-March, 1917- and June, 1919, and the characters are a little group of "the enemy" during the crisis of the Great War, and after. Enemy hate in war-time is a tremendous thing which no one can account for, and this play—dealing as it does with the thoughts and feelings of those who were not our Allies—will make people register the hope that war will not again blot the escutcheon of civilisation.

"The Solenelle"

ONE night about 18 months ago extreme pleasure was given to listeners by the broadcast from 3LO of Gounod's "Mass of St. Cecilia"—usually referred to as "The Solenelle"—by choir and orchestra.

There was a rare beauty in it that appealed to all music lovers, but, apart from that, the performance struck a new note in broadcasting, giving to listeners for the first time in this State a suggestion of the impressive ritual and liturgy of Catholicism—the broadcast being enlightened by verbal explanations of the relation of the music to august ceremonies of the ancient Church. Since that memorable night other masses by Gounod, Haydn and Beethoven have been broadcast, and the general desire is for more and still more.

That 3LO is able to meet this demand is due to its having the whole-hearted co-operation of Mr Hugh McRae, the



DAVID CRAVEN, who takes the part of Henry IV. of France, in the romantic comedy-opera "Ma Mie Rosette," to be broadcast from 2FC on Friday, Nov. 27.

director of St. Ambrose's choir, Brunswick—a choir that has come out of comparative obscurity into the limelight in no small way. Of the several Masses which have been broadcast—Haydn's "Imperial," with its coronational splendor; Beethoven's in C, with its profound depths and sublime heights; and Gounod's softly-breathed "Sacre Coeur"—it is the "Mass of St. Cecilia" which is dearest to Catholic hearts, and makes the widest appeal.

The Mass will be sung at 3LO on Sunday night, November 30, with full orchestral accompaniment.

RADIO CLUB NOTES

3DB "Smile Away" Club

A BIG Smile Away party is to be held in the Auditorium next Wednesday, Thursday and Friday, and more than 6000 will be entertained by the club in this way. The entertainment will be somewhat similar to that given previously at the King's Theatre and at the Auditorium, and will consist of minstrel show items, a one-act play, vaudeville, farces, and so on. The previous entertainments were voted a tremendous success, and it has been decided to give this year's members a final opportunity of seeing it.

This probably will be the last big party for 1931 members, but an ambitious programme of entertainment and cheerful activity is being planned for 1932 members. Enrolment for members for 1932 will commence at the beginning of December.

The Tailwaggers' Club now has more than 800 members and a number of activities are now being arranged for these. The Tailwaggers' parliament will be selected soon, and a special Tailwaggers' show is being discussed.

The fortnightly hikes have been attracting large crowds, and the leader of the hikes (Mrs Way) has been begging for less publicity since the number of hikers threatens to become too large to handle conveniently.

The Smile Away club rooms, underneath the Capitol Theatre, were opened recently, and are proving a convenience. Tickets given out nightly are now distributed there between the hours of 9.30 and 5. The tickets for the big Auditorium parties will be distributed from the club rooms except after 5 p.m.

Fox Hoyts Radio Club

THE membership of Fox Hoyts Radio Club is now nearly 13,000, and branches are well established at Albury and Ballarat. A branch has also been formed at Oakleigh.

Last Sunday, the club gave a private screening to its members at the Regent Theatre. A very good programme was provided and the theatre was packed. The orchestra and Choral Society, under the leadership of Mr Kevin Bradley, gave a splendid performance before the show. Many hikers were present, special arrangements having been made with the Railways Department to enable them to get back in time. They have gone from Berwick via Harkaway, to Selby, and, although they received a thorough wetting, this did not dampen their spirits in the least.

The motor cyclists were out last Sunday on the same route as the hikers. They are having another outing on November 22, and will be meeting outside the club rooms at 10.30 a.m.

There will be a meeting of the Camera Club at Mr Vivian Harrison's rooms, Empire Arcade, Flinders Street, on Monday, November 23, when a lecture on "Exposure and Development of Films" will be given.

The cricket club has a fixture arranged for the season. The ground is No. 29 pitch, Carlton.

Commencing on Monday, November 23, the Central Council of Victorian Benevolent Societies is holding a carnival at the Green Mill. On the Friday night, the combined musical societies of the Fox Hoyts Radio Club are providing the programme. Tickets, 1/ each, are obtainable at the club rooms, and attached to each ticket is a coupon which may entitle the holder to a free first-class trip to Tasmania.

Listen in to the club's sessions every Monday, Wednesday, Friday, and Saturday, at 7 p.m., and to the Fox Talkietone half hour, from 7.30 till 8 p.m. every Sunday.

AUSTRALIAN PROGRAMMES

Note. — Programmes of Melbourne, Sydney, Brisbane and Hobart Stations are arranged according to Eastern or Melbourne Time—5CL Adelaide is half an hour behind Melbourne, and Perth two hours behind Melbourne time.

MORNING

- 10.0: Time Signal.
Latest Cricket Information. Programme Review.
10.10: "Australio"
Musical Reproduction.
10.20: Express Train Information. British Official Wireless News. Items of Interest. Police Messages.
10.30: Bells of St. Paul's Cathedral.
10.45: DIVINE SERVICE From ST. PAUL'S CATHEDRAL
SERMON: ARCHDEACON HERRING.

AFTERNOON

- 3.0: PLEASANT SUNDAY AFTERNOON SERVICE From WESLEY CHURCH CENTRAL MISSION.
Soloist: MISS GRACE JACKSON.

EVENING

- 6.0: "BROTHER BILL'S" Talk is entitled—"ARMY OR ARK"
6.15: THE OPTIMISTS' CHORUS SINGERS Led by TREVOR MORRIS in Children's Songs and Choruses.
6.53: Birthday Greetings
7.10: AN INFIDEL IN ISLAM—"Kahns and Caravanserals." MR GEORGE MATTHEWS.
7.30: Musical Interlude.
7.35: THE NEWS BEHIND THE NEWS—By "THE WATCHMAN."

NIGHT

BAND MUSIC

- 8.0: RAILWAYS MILITARY BAND: (Conductor: A. BELCHER)—

SUNDAY

November 22
3LO, Melbourne

WAVE LENGTH, 375 METRES

- Grand March: "Entry of the Gladiators" (Fucik).
Gavotte: "Flirtation" (Langey).
8.10: COLIN THOMSON, Tenor:
Two Songs by Roger Quilter:
"Weep You No More."
"To Daisies."
8.17: TWO PIANO RECITAL—
RITA HOPE AND KATIE LIDDELL—
"Piece in A Minor" (Ropartz).
8.27: RAILWAYS MILITARY BAND:
March: "The Bull-Fighters."
(Relaying to Station 2BL).
8.30: Selection: "The Count of Luxembourg" (Lehar).

The Story of a Famous Song

- 8.44: MR. J. HOWLETT ROSS—
Will tell the story of "The Rosary" and its Author.
8.59: RAILWAYS MILITARY BAND:
Overture: "Les Cloches de Corneville"

3AR, Melbourne

WAVE LENGTH, 491 METRES

MORNING

- 11.0: DIVINE SERVICE from COLLINS STREET BAPTIST CHURCH, MELBOURNE.
Sermon: REV. W. D. JACKSON, B.A.

AFTERNOON

- 12.15: A Studio Programme of Special Reproduced Music. "Belphegor" (Brepsant).
"Marche Lorraine" (Canns).
BAND OF H.M. GRENADIER GUARDS.
Conductor, Captain G. Miller.
"Onaway, Awake, Beloved" (Cowen).
"Can't Remember" (Goatly).

- HAROLD WILLIAMS, Baritone, with piano.
"Do Not Go, My Love" (Hageman).
"Homing" (Del Riego).
MARGUERITE D'ALVAREZ, contralto, with piano and organ.
"Somewhere a Voice is Calling" (Tate).
"I Know of Two Bright Eyes"
NEW MAYFAIR ORCHESTRA.
"Murmuring Breezes" (Jensen).
"Cherry Blossom"
GRAND CINEMA ORCHESTRA.



HAWTHORN BANJO CLUB, under the direction of W. H. L. Mawson, who will be heard from Station 3AR on November 28.

(Tubular bell solo, by E. MARRIOTT).
"Dance of the Mountain Gnomes" (Eilenberg).

"By the Fireside"

9.5: "THE SUNDOWNERS' QUARTETTE—

with ARNOLD COLEMAN at the Grand Organ.

- 9.25: RAILWAYS MILITARY BAND:
"Slavonic Dance No. 6" (Dvorak).
"Humoreske" (Dvorak).
9.33: COLIN THOMSON, Tenor:
"The Vagabond" (Vaughan Williams).
"Sylvia" (Oley Speaks).
9.40: RITA HOPE AND KATIE LIDDELL:
In a Further Two-Piano recital:
"Berceuse" (Aubert).
"Romance" (Arensky).
"La Coquette" (Arensky).
"Nocturne" (Gliere).
"Les Nymphes" (Gliere).
9.50: RAILWAYS MILITARY BAND:
Entr'acte No. 2 from "Rosamunde"
Serenade: "By Moonlight" (Moret).
Cornet Solo: "The Trumpeter" (Dix).
(Soloist: ROBERT BOWDEN).
10.3: British Official Wireless News. Official Weather Data. Police Messages. Items of Interest.

EPILOGUE

- 10.15: "Seek, Ye Shall Find."
10.30: Close Down.

"I Travel the Road" (Thayer).
"My Sword and I" (Byng).
PETER DAWSON, baritone, with orchestra.
"Wand of Youth" Suite (Elgar).
March, "Little Belles—Moths and Butterflies."
Fountain Dance:
Tame Bears—Wild Bears.

LONDON SYMPHONY ORCHESTRA:
Conductor: SIR ED. ELGAR.
"Way Down Upon the Swane River"
Negro spiritual.
"I Got Shoes."
Negro spiritual.
EDNA THOMAS, soprano, with piano by COLIN CAMPBELL.
"The Court Ball"
Op. 161 (Lanner).
GRAND SYMPHONY ORCHESTRA—
Conductor, Dr. Weissman.
"The Far Away Bells" (Gordon).
JOHN McCORMACK, tenor, with orchestra.
"L'Heure Exquise" (Vorlaine-Hahn).
"Si Mes Vers Avient des Ailes" (Hahn).
NINON VALLIN, soprano, with piano.

Sousa Marches: "National Game"
"Gridiron Club."
SOUSA'S BAND, Conductor, "Sousa."
1.45: "QUESTIONS AND ANSWERS"
THE REV. C. IRVING BENSON'S half-
hour talk on Biblical, moral and ethical
problems, submitted by Listeners.
2.15: ARNOLD COLEMAN at the GRAND
ORGAN
Will illustrate the story of the opera
"Giroffe-Giroffa."
By Lecocq.
3.0: Close down.
4.30: "Rakoczy" — March "Damnation of
Faust" (Berlioz).
PHILADELPHIA ORCHESTRA.
Duet: from "Hansel and Gretel" (Hum-
perdinck).
META SEINEMEYER, with orchestra.
"The Beggar's Opera" Selection (Gay).
BAND OF H.M. GRENADIER GUARDS—
Conductor, LIEUT. GEORGE MILLER.
"Wein, Wein und Gesang" (Strauss).
B.B.C. WIRELESS CHORUS AND OR-
CHESTRA.
"L'Apprenti Sorcier" (Dukas).
NEW YORK SYMPHONY ORCHESTRA.
(Conductor, Arturo Toscanini).
"Butterfly's Entrance" from "Madame
Butterfly" (Puccini).
ALESSANDRO GRANDA, GINO VAN-
ELLI, GUISEPPI NESSI, ROSETTA PAM-
PANINI, with chorus and orchestra.
"Spanish Dances" (De Falla).
PHILADELPHIA SYMPHONY ORCHES-
TRA.

"Solweig's Song" (Grieg).
"Know'st Thou the Land" from "Mig-
non" (Thomas).
EMMY BETTENDORF, soprano, with or-
chestra.
"Slavonic Dances No. 6" (Dvorak).
BERLIN STATE OPERA ORCHESTRA.
5.30: CULLED FROM THE CLASSICS:
Second Series: "Haslet, on 'Going on a
Journey,'"
KATHLEEN BOOTH, B.A.
5.45: "Tod und Verklarung" Op. 24 (Strauss)
LONDON SYMPHONY ORCHESTRA,
Conductor: ALBERT COATES.
"O Paradiso" (Meyerbeer).
BENIAMINO GIGLI, tenor, with orches-
tra.
"Christmas Concerto" (Corelli).
BERLIN STATE OPERA ORCHESTRA,
Conductor, Dr. Weissman.
6.20: Request numbers.
6.40: Programme review.
6.45: What's on the Air Tonight.
6.47: St. Paul's Cathedral Bells.

EVENING
7.0: DIVINE SERVICE
from
SCOTS CHURCH, MELBOURNE.
SERMON: Rev. DR. W. BORLAND, M.A.
NIGHT
8.30: PROGRAMME
Arranged
by
PROFESSOR BERNARD HEINZE, F.R.C.M.
ARTISTS.
ELISE STEELE—Violinist.
HELEN SPEEDING—Pianist.

CARRIE CAIRNDUFF—Soprano.
GORDON PEART—Baritone.
Sonata for Violin and Piano in D. Major
(Mozart).
Soli: (a) "Jeune Fillette" — Bergerette
(Arr. Weckerlin).
(b) "Je sais Attacher des Rubans"
(Dourlens).
(c) "Je ne veux pas d'autre chose"
(Widor).
Pianoforte: Chorale—
"Jesu, Joy of Man's Desiring" (Bach-
Myra Hess).
(From 147th Cantata).
"Nocturne D. Flat Major" (Chopin).
"Mazurka A. Minor" (Chopin).
"Mazurka C. Major" (Chopin).
Gavotte (Gluck-Brahms).
Violin Soli (Unaccompanied)
"Prelude in E" (Bach).
"Andante Sostenute" (Bach).
"Tempo di Bourree" (Bach).
Baritone Solo: Aria: "Credo" from
"Othello" (Verdi).
Pianoforte: "Minuet" (Sur le nom d'Haydn)
(Ravel).
"Une Barque sur l'Ocean" (Ravel).
"Three Preludes" (Debussy).
"April" (Frank Bridge).
Soprano Soli: "Twilight Fancies" (Debussy).
"Someone" (Maurice Besley-Quilter).
"April" (D. J. Coultts).
Baritone Soli: A Group of English Songs.
(a) "Isabel" (Frank Bridge).
(b) "An Epitaph" (Maurice Besly).
(c) "Silver" (C. Armstrong Gibbs).
9.55: Weather Information. Police Messages.
10.0: Close Down.

2FC, Sydney

WAVE LENGTH, 451 METRES

MORNING

10.0: Announcements.
10.5: Studio Music.
10.30: This Morning's News from The Sun-
day Sun, Truth and the A.B.C. Service.
10.40: Musical Items.
11.0: From St. Mary's Basilica—
High Mass.
Missa Regina Pacis (Yon).
Celebrant: REV. J. MCCOEE.
Preacher: REV. W. HURLEY.
12.15: Studio Music.
12.30: Close.

AFTERNOON

(Relayed to 2NC, Newcastle)
3.0: A Celebrity Recital
4.30: Close.

EVENING

(Relayed to 2NC, Newcastle, between 6
and 7 p.m. and 8.30 and 10.30 p.m.)
6.0: A Celebrity Recital.
6.30: C. PRICE CONIGRAVE will tell
Listeners
Something About Camels.
6.45: A Celebrity Recital.
LILY PONS, Soprano—
"Lucia di Lammermoor (Donizetti).
"Ardon gl' incensi."
"Spargi di amaro pianto."

VLADIMIR HOROWITZ, Pianist—
"Paganini Etude in E Flat Major" (arr
Busoni).
Children's Corner Suite—"Serenade for
the Doll" (Debussy).
LONDON SYMPHONY ORCHESTRA—
"Crown of India Suite" (Elgar).
"Pomp and Circumstance" (Elgar).
7.15: From St. John's Presbyterian Church,
Wahroonga—
Evening Service.

NIGHT

8.30: Relayed to 2 NC, Newcastle.
WILLIE MENGELBERG AND HIS
ORCHESTRA (recorded)—
Leonora Overture (Beethoven).
8.45: (Relay to 4QG Brisbane and 4RK
Rockhampton from 8.45).

THE A.B.C. PLAYERS
in

"THE ENEMY"

A Play in Four Acts
by
Channing Pollock.

Produced by Laurence Halbert.

"His purpose was to show how like
ourselves were creatures we should
have called contemptible; how like
ourselves they thought and felt, and
how they regarded us; and so to show
us ourselves through their eyes."
—William Dean Howells with refer-
ence to "Gulliver's Travels."

The Persons:

(In the order in which they speak)
Carl Behrend . . . ARTHUR KEANE
Pauli Arndt . . . NANCY STEWART
Baruska . . . LORIS BINGHAM
Bruce Gordon . . . ERIC MASTERS
August Behrend ARTHUR CORNELL
Jan . . . JOHN DURNE
Dr. Arndt . . . ARTHUR GREENAWAY
Mizzi Winckelman . . . ROSLYN VANE
Fritz Winckelman — JOHN BEDOUIN
The action takes place in the Arndt
flat in Vienna—
Act 1—June, 1914.
Act 2—August, 1914.
Act 3—March, 1917.
Act 4—June, 1919.

10.0: Meditation Music.
10.30: Close.

2BL, Sydney

WAVE LENGTH, 351 METRES

MORNING

10.55: Announcements.
11.0: Morning service from St. Jude's
Church of England.
Rector: CANON CAKEBREAD.
Organist: Mr. F. R. COOKE.
12.15: Musical items.
12.30: News.
12.40: A specially-arranged Programme of
recorded vocal and instrumental music.

2.30: Mental and Musical Reflections.
3.0: Close.

AFTERNOON

4.30: A Celebrity Recital.
4.45: "BRINGA" will tell of
"The Aboriginal Bushranger."
5.0: A Celebrity Recital.

EVENING

6.0: The Children's Session, conducted by
JUDITH.
6.50: Musical Items.
7.0: Evening Service from Killara Con-
gregational Church.
Conducted by Rev. A. P. CAMPBELL.

NIGHT

8.30: Relayed from 3LO, Melbourne. See
3LO for details.
9.58: Weather forecast.
10.0: Close.

PRIVATE FOR
SALES
DAILY
Till 6.
FRI., 9 p.m.

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SALES
EVERY
MONDAY
12 NOON

MORNING

Relayed to 4RK, Rockhampton Until 11.0 a.m.
 10.30: City Hall Chimes.
 10.31: GATTY SELLARS, Organist—"At the Temple Gates" (Dellans).
 10.40: Weather Information.
 10.42: Cable News.
 10.43: MASTER JOHN BONNER, Boy Soprano, and TEMPLE CHURCH CHOIR—"Hear My Prayer" (Mendelssohn).
 10.48: News.
 11.0: The Morning Service will be Broadcast from the City Congregational Church.
 12.15: Close.

MORNING

10.30: Message of Cheer.
 10.31: Sabbath Chimes and Music.
 11.0: Time signal.
 11.1: Morning Service from Maughan Methodist Church. Preacher: REV. S. FORSYTH.
 12.25: Items of Interest.
 12.30: Close down.

AFTERNOON

3.0: Time Signal.
 3.1: A Pleasant Sunday Afternoon Service from Maughan Central Mission.

3DB, Melbourne

WAVE LENGTH, 255 METRES

AFTERNOON

2.30: Two Hours of Melody.

EVENING

6.0: An Hour of Harmony—ROYAL ALBERT HALL ORCHESTRA—"Carnival Overture, Op. 92." FRASER GANGE, Baritone—"On the Road to Mandalay." W. H. SQUIRE, Cello—"Prize Song" ("The Mastersingers"). MURIEL BRUNSKILL, Contralto—"There Reign'd a Monarch in Thule." DAJOS BELA ORCHESTRA—"La Tosca"—Fantasia. CHARLES HACKETT, Tenor—"Beloved It Is Morn." IGNAZ FRIEDMAN, Piano—"Viennese Dance, No. 1." DORA LABETTE & HUBERT EISEDELL, Duet—"Come, Silver Moon." HARRY GOSS-CUSTARD, Organ—"La Nuit." EVEREADY HOUR GROUP—"Goin' Home." VICTOR SYMPHONY ORCHESTRA—"Kamennoi-Ostrov." ARMAND CRABBE, Baritone—"Place au Factotum." NATIONAL SYMPHONY ORCHESTRA—"La Traviata"—Prelude.
 7.45: International Programme—Greece.
 8.45: Your Eyes.
 9.15: Sunday Evening at Sandy McNab's—3DB's Big Feature.
 10.0: Sun News; weather.

3UZ, Melbourne

WAVE LENGTH, 319 METRES

5.45: Programme of light music. 6.45: "Mill on the Cliff Overture" (Reissiger); BERLIN STATE OPERA HOUSE ORCHESTRA. 6.54: "Cavatina" (Faust-Gounod); M. MICHELETTI. 6.59: "Caprice Espagnole"; WILHELM BACKHAUS. 7.3: "The Heavens Are Telling" (Haydn); SHEFFIELD CHOIR. 7.7: "Rigoletto Fantasia" (Verdi); DAJOS BELA ORCHESTRA. 7.16: "Rose Songs" (Eilenberg); EMMY BETTENDORF. 7.21: "William Tell Overture" (Rossini); NEW QUEEN'S HALL ORCHESTRA. 7.43: "Asleep in the Deep" (Petrie); PETER DAWSON. 7.50: "The Sacred Hour" (Ketelbey); REGINALD FOOT. 7.54: "Academic Festival" (Brahms); BERLIN STATE OPERA HOUSE ORCHESTRA. 8.4: "Song of the Sea" (Kunneke); FOSTER RICHARDSON. 8.7: "Shepherd's Hey" (Grainger); MARK HAMBURG. 8.10: "Listen Lord" (Turandot) (Puccini); ROSA TORRI. 8.13:

4QG, Brisbane

WAVE LENGTH, 395 METRES

AFTERNOON

Relayed to 4RK, Rockhampton.
 3.0: Garden of Roses—"The Wedding of the Rose." "The Rose of Tralee." "To a Wild Rose." "The Last Rose of Summer." "Roses." "Rose in the Bud." "Roses of Picardy." "Roses and Women." "Rose For Every Heart." "Roses of the South." "Rose Softly Blooming." "Hedge Roses." "Rose Marie."
 4.30: Close.

5CL, Adelaide

WAVE LENGTH, 411 METRES

4.30: Close down.

EVENING

6.0: Children's Birthday Greetings by "Big Brother."
 6.10: Children's Sing Song. Conducted by "The Bird Lady."
 6.30: Sabbath Celebrity Reproductions.
 7.0: Evening Service from Scots Church, North Terrace. Preacher: REV. N. L. D. WEBSTER.

NIGHT

7.30: From Wests Olympia—

"Grand March" — Tannhauser (Wagner); ROYAL GUARDS BAND. 8.18: "The Curtain Falls" (D'Hardelot); PETER DAWSON. 8.21: "New Sullivan Selection" (Arr. Dan Godfrey); REG. BAND OF H.M. GRENADIER GUARDS. 8.30: Requests.
 9.0: "Ballet Music" — Faust (Gounod); MASSES BANDS. 9.8: "Melisande in the Wood" (Goetz); ESSIE ACKLAND. 9.12: "Triumphal March—Aida" (Verdi); CHORUS and ORCHESTRA of STATE OPERA HOUSE, BERLIN. 9.21: "Romance in F" (Violin) (Beethoven); JACQUES THIBAUD. 9.29: "Souvenir Waltz" (Pazeller); DAJOS BELA ORCHESTRA. 9.35: "Hine Kura" (Niura); THE TAHAWIS. 9.39: "Slavonic Dance No. 8" (Dvorak); BERLIN STATE OPERA HOUSE ORCHESTRA. 9.45: Close down.

3KZ, Melbourne

WAVE LENGTH, 222 METRES

2.30 to 3.0: Recorded music. 3.0 to 4.0: "Labor Hour." 4.0 to 4.30: Watchtower Bible Society. 4.30: Close down.
 6.0 to 7.30: Evening music. 7.30 to 8.0: Fox Hoyts Talkie Session. 8.0 to 8.30: Melbourne College of Music. 8.30 to 9.0: Clyde Shoe Session. 9.0 to 10.0: Akron Tyre "Happy" Session. 10.0: Close down.

7ZL, Hobart

WAVE LENGTH, 517 METRES

10.30: Message of cheer. 10.31: Reproduced Music. 10.35: Comments on Current Topics. 10.45: Trinity Church Chimes and Organ Music. 11.0: Divine Service this morning will be broadcast from St. David's Cathedral, Hobart. Preacher: VERY REV. DEAN RIVERS. 12.15: Close down.
 3.0: G.P.O. Clock chimes the hour. Pleasant Sunday Afternoon Programme, arranged by the visiting captain of the Church Army in England, CAPTAIN COWLAND. 4.0: G.P.O. Clock chimes the hour. Piano and Violin Recital. WILLIAM MURDOCH (Pianist) will play: Sonata—"Appassionata" F Minor, "Allegro Assai." "Andante con Moto." "Allegro ma non troppo." FRITZ KREISLER (Violinist) will play: "Caprice Viennois" (Kreisler), "Humoresque," "Gavotte" in E (Brach), "Hungarian Dance" (Brahms). 4.30: Close down.
 6.0: G.P.O. Clock chimes the hour. 6.1: Service of Song — Children's Community Singing. Under the leadership of C. THOMSON. 6.45: Original Tales and Stories by BERTHA SOUTHEY BRAMMALL. 7.0: Evening Service this evening will be broadcast from Memorial Congregational Church. Preacher: REV. A. C. NELSON. 8.30: Orchestral Concert, arranged and directed by E. J. McCANN. Full Professional Orchestra. Assisting Artists:—MADAME VERA TASMA, Soprano; FRED

EVENING

Relayed to 4RK, Rockhampton.
 6.0: A Special Service for Children, arranged by The Queensland Council of Churches.
 6.30: The Children's Own Hour, conducted by "THE SANDMAN."

NIGHT

Relayed to 4RK, Rockhampton, from 8.45 p.m.
 7.30: Evening Service will be Broadcast from St. Andrew's Church of England. Preacher: REV. L. J. HOBBS.
 8.45: A Programme from Sydney. See 2FC for Details.
 10.0: Close.

Grand Concert

for The Toc H Xmas Cheer and Comforts Fund. Performers Unley Symphony Orchestra Conducted by NORMAN SELICK CLIVE CAREY, Baritone. PETER BORNSTEIN, Violinist. ADA WORDIE, Soprano. JAMES CURRIE, Tenor. MARY EDSON, Soprano. HAROLD TIDEMANN, Baritone. LOMBARNI'S NEAPOLITAN QUARTETTE. LYNNIE GILBERT, Soprano. 9.50: News Session. 10.0: Close down.

HERAUD, Baritone. Overture: "Barber of Seville" (Rossini). Incidental Music.—Music, "Monseur Beaucaire" (Rossi), "Intermezzo" (Bizet). March, "Cleopatra" (Mancinelli), "Serenade" (Titli) (Flute and Horn), "Melodie" (Rachmaninoff), "Dance of the Tumblers" (Snow Maiden). 9.45: News. Resume of tomorrow's programme. Comments on Current Topics. 9.50: Epilogue on the theme: "Light." 10.0: Close down.

2GB, Sydney

WAVE LENGTH, 316 METRES

10.0: Music from studio. 10.25: Organ music from St. Alban's Church, Regent St., Sydney. 10.30: Morning service from St. Alban's Church. 12 noon: Music from studio. 12.30: Close down.
 2.0: Sunday afternoon musical programme.
 3.0: The Radio Comain, conducted by UNCLE FRANK, from Savoy Theatre.
 5.0: The Radio Sunday School, conducted by UNCLE FRANK. 5.15: Cheer Up Community Singing Service for children, conducted by UNCLE FRANK. 6.45: Music. 7.0: Address by Mr. A. E. BENNETT, 7.30: Address from Savoy Theatre. 8.20: Music. 8.30: Wilks Concert Programme. Piano solo by VINCENT BLIGHT—"Valse in E" (Moscowski). 8.34: CASSIE HUGHES, contralto—"Ave Maria" (Mascheroni), "To Music" (Schubert). 8.38: RENE RICH, violinist—"Souvenir de Moscow" (Wienawski); "The Canary" (Poliakini). 8.52: LEONARD HOWELL, tenor—"You are My Heart's Delight" (Lehar). 8.54: Orchestra. 8.55: LEONARD HOWELL, tenor—"Wonderful" (Lehar). 9.0: Piano solo by VINCENT BLIGHT—"Arabesque" (Arnold). 9.4: CASSIE HUGHES, contralto—"Ombra mal fu" (Handel). 9.7: Orchestra. 9.11: CASSIE HUGHES, contralto—"Nearer My God to Thee" (Clarey). 9.15: RENE RICH, violinist—"Hejre Kati" (Hubat); "Romanza Andalusia" (Sarasate). 9.24: LEONARD HOWELL, tenor—"When Dawn Breaks Through" (Wood); "Oh Maiden, My Maiden" (Lehar). 9.32: Piano solo by VINCENT BLIGHT—"Fiedermaus" (Strauss). 9.40: Orchestra. 9.45: Close down.

2KY, Sydney

WAVE LENGTH, 280 METRES

7.30: Fostars Happy Musical Session. Conducted by GOODO FOSTAR. 9.30: Sam Lands Request Programme. 10.30: Closing announcements.
 6.0: The Sam Lands Request Programme. Presented by HARCOURT GARDENS. 7.0: The Heenzo Entertainment. Presented by UNCLE RUSS. 8.0: Sweet Bros' Dance Hour. Presented by HERBERT BEAVER. 9.0: Popular programme. Presented by BEAR and CO. 9.30: Continuation of Sam Lands Request Programme. 10.0: Closing announcements.

SUNDAY—Continued

2UW, Sydney

WAVE LENGTH, 267 METRES

10.30: Music and request items. 11.0: "Surprise" symphony in G major (Hayden). 12.39: Moonlight Sonata (Beethoven). 1.0: Close down.
 3.0: Music. 3.30: Suite from music to "Le Bourgeois Gentilhomme" (R. Strauss). 4.30: Music. 5.0: Close down.
 5.15: The Quiet Hour: Orch: Hungarian Rhapsody, No. 1 (Liszt). 5.23: Vocal: Hail Smiling Morn (Spofforth). 5.27: Organ—The Pilgrim's Song of Hope (Batiste). 5.30: Orch.—Operatic gems. 5.38: Violin—Goir: Home (Dvorak-Kreisler). 5.41: Organ—March (Handel-Guilmant). 5.45: Orch.—Sel. Princess Ida (Sullivan). 5.53: Violin—Song of Volga Boatmen (arr. Kreisler). 5.56: Quartet—Sweet and Low (Barnby). 6.0: Organ—Lhargetto (Wesley). 6.4: Orch.—Spanish Rhapsody (Chabrier). 6.14: Vocal—Shelum Boat Song (Woodforde Finden). 6.20: Organ—Offertoire pour deux Noels (Guilment). 6.24: Vocal—Kingsfisher Blue (W. Finden). 6.30: Piano Recital by Mr. FRANK HUTCHENS. 7.0: Musical programme. 8.45: Shuron programme: "Your Eyes." 9.0: Story and music of "La Gioconda" (Ponchielli). 10.0: Music. 10.30: Close down.

5KA, Adelaide

WAVE LENGTH, 250 METRES

10.0: "Blue Danube Waltz" (Strauss). INTER. CON. ORCHESTRA. 10.5: "O Worship the King" (Thalben Ball). CHOIR OF THE TEMPLE CHURCH, LONDON. 10.10. COUSIN ADELAIDE conducting the children's session. 10.25: "Fiddle and I" (Good- eve). ALMA GLUCK, Soprano. 10.30: Lecture by JUDGE J. F. RUTHERFORD. 10.45: "Cavatina" (Raff). Violin and Wurlitzer Organ. DE GROOT AND CASE. 10.48: "Orpheus Ballet" (2 parts) (Gluck). SYMPHONY ORCHESTRA OF PARIS.
 3.0: "Marien Klange" (Strauss). DAJOS BELA ORCHESTRA. 3.5: "There Is a Green Hill" (Gounod). SYDNEY COLT-HAM. 3.10: "The Dance of the Moonbeam Fairies" (Varney). INS. 3.14: "Coronation March." (Saint Saens). BLACK DIAMOND BAND. 3.20: Lecture. 3.40: "Polish Life" (Nebdal). DAJOS BELA ORCHESTRA. 3.45: "Cherry Ripe" (Cyril Scott). V. OLAF SEXTET. 3.50: "Aloha Oe." HAWAIIAN INS. QUINLETTE.
 7.0: "Dancing Demoiselle" (Fall). DAJOS BELA ORCHESTRA. 7.5: "Feuillet D'Album" (Chalrui). RENEE CHEMET, Violin. 7.10: Lecture, "Satan," by JUDGE J. F. RUTHERFORD. 7.25: "The English Rose" (German). CORNET GODARD, WITH BLACK DIAMOND BAND. 7.30: Organ music from the Regent Theatre. 8.0: Special Fox Talkie feature. 8.30: "The Skaters" (Waldteufel). INT. CONCERT ORCHESTRA. 8.40: "1812 Overture" (Tschalkowsky). Orchestral. 8.45: "What Has Come O'er You Lovely Forest" (Mendelssohn). SEIBER CHOIR. 8.50: Radiologue. 9.10: "O Come All Ye Faithful." JOHN MCCORMACK, Tenor. 9.15: "Andantino in D Flat" (Lemare). Organ. 9.25: "Serenade" (Moszowski). DAJOS BELA ORCHESTRA. 9.30: Close down.

5AD, Adelaide

WAVE LENGTH, 229 METRES

5.30: Children's Choral Service, under the direction of the National Council of Religious Education of South Australia. 6.0: Time, Orchestral Selections. 7.0: Grand Organ Recital, with Vocal Interludes. 7.30: Excerpts from Opera. 8.0: Recital. 9.0: News Bulletin, Weather Forecast. 9.5: Special Musical Presentation. 9.45: "Dream Ship" Melodies." 10.0: Close Down.

MONDAY

November 23

3LO, Melbourne

MORNING

7.0: Time Signal.
 7.1: Shipping News.
 7.3: Physical Exercises to Music.
 7.18: Musical Interlude.
 7.40: Mail Notices.
 7.42: What's on Today?
 7.45: Market Reports.
 7.53: Weather Forecast.

7.55: News Service. Cable News Service. Police Messages.
 8.0: Time Signal.
 8.1: Arrival Times of Express Trains.
 8.2: Musical Interlude.
 8.15: Close down.
 10.30: CURRENT HAPPENINGS IN SPORT
 By MEL. MORRIS.
 10.45: "Austradio" Musical Reproduction.
 (Continued overleaf)

8.30 ——— A Romantic Comic Opera in Two Acts ——— 3LO

"SHAMUS O'BRIEN"

Founded on
 the Poem
 by
 Joseph
 Sheridan Le Fanu



Written by
 Geo. H. Jessop

Composed by
 Charles
 Villiers Stanford

With Full Orchestral Accompaniment under the Direction of
 WILLIAM G. JAMES.

Characters—

SHAMUS O'BRIEN ("On his keeping" —i.e., outlawed).
 FATHER O'FLYNN (the Parish Priest of Ballyhamis).
 CAPTAIN TREVOR (of the British Army).
 MIKE MURPHY (a Peasant Farmer).
 SERGEANT COX (of Captain Trevor's Company).
 NORA O'BRIEN (Wife of Shamus).
 KITTY O'TOOLE (Sister to Nora).
 LITTLE PAUDEEN (the Heir to the O'Briens).
 Soldiers, Peasants, Villagers, etc.
 Period—
 Immediately after the suppression of the rebellion of 1798.
 Scenes—
 Act I.—Village of Ballyhamis, in the Mountains of Cork.
 Act II.—Scene 1: The Barrack Square.
 Scene 2: A Country Road.
 Musical Numbers—
 ACT I.—
 Overture.
 Chorus: "It's Bitter News."
 Recitative: "Peace Be With You."
 Song (Father O'Flynn, with Chorus): "I'll give ye to next Michaelmas."
 Chorus: "Let the Army Come On."
 Song (Kitty): "Where is the Man That is Coming?"
 Trio (Mike, Captain and Kitty): "He's as Straight as a Dart."
 Duet (Kitty and Captain): "Well, He'd Take me by the Hand."
 Song (Shamus): "I've Sharpen'd the Sword."
 Quartet: "Come Boys, Come."
 Chorus: "From the Moor, from the Hill."
 Trio and Ensemble: "Is it Shamus You Seek?"
 Finale: "Push the Jug Around."
 Song (Nora): "A Grave Yawns Cold."
 Song (Shamus): "The Soldiers Are Safe."
 Reel.
 Chorus: "Come, All Ye True Bred Irishmen."
 Entracte.
 ACT II.—
 Introduction.
 Song (Captain): "My Heart is Thrall to Kitty's Beauty."
 Duet (Captain and Mike): "What the Devil are you Doing?"
 Song (Mike): "Ochone, when I used to be oung."
 Ensemble: "Walk, Girls, Walk."
 Duet (Kitty and Captain): "So It's Kisses You're Craving."
 Duet (Nora and Shamus): "Darling, Darling."
 Ensemble and Melodrama.
 Introduction to Scene II.
 Chorus and Ensemble: "They're Taking Him from the Jail."
 Finale.
 Solo (Shamus): "Listen to Me, Men."

Your Eyes!

Are your most priceless possession.

Have Them Examined Regularly



ALFRED NOTT

OPTICIAN

T. & G. Building, Cr. Russell and Collins Sts.—Melbourne
 'Phone Central 2684

3LO, MONDAY—Continued

- 11.0: Express Train Information.
 11.3: "Austradio" Musical Reproduction.
 11.30: Morning Sales. Melbourne Stock Exchange.
 11.33: "Austradio" Musical Reproduction.
 12.1: "Austradio" Musical Reproduction.
 12.10: Programme Announcements. News Service. Cable News Service. Police Messages. Corn Exchange Midday Report. Newmarket Stock Sales. Associated Stock and Station Agents' Official Report.

AFTERNOON

- 1.0: Time Signal. Stock Exchange Information. Sydney Prices of Tasmanian Farm Produce. Shipping Information. Meteorological Data. Weather Forecast. Ocean Forecast. Rainfall Data. River Reports.
 1.15: Comments on Current Topics.
 1.30: "Austradio" Musical Reproduction.
 2: THE WEEK'S WORK IN THE GARDEN. "Iris."
 MR. A. ANTONIO.
 2.15: Musical Interlude.
 2.20: THE A.B.C. WOMEN'S ASSOCIATION. Conducted by HATTIE KNIGHT.
 This session will include an interview with a prominent woman.
 2.50: Musical Interlude.
 3: ST. VINCENT DE PAUL'S BOYS' BAND. (Conductor: LES HOFFMAN)—
 Selection, "Stars and Stripes" (Greenwood).
 3.8: COLIN THOMSON, Tenor—
 "Out Where the Big Ships Go" (Hewitt)
 "Time, You Old Gipsyman" (Warren).
 3.14: PICCINI and CERA, Novelty Instrumentalists—
 "My Florence" (G. Dorio).
 Selection, "La Traviata" (Verdi).
 3.21: ST. VINCENT DE PAUL'S BOYS' BAND—
 "Reminiscences of the Plantation" (Godfrey).

- 3.31: COMPTON COUTTS, Comedian—
 Supplies a little "Radio Relish."
 3.37: EDITH PARNELL, Piano—
 "Romance." (Sibelius).
 3.40: MORAN HILFORD, Basso—
 "Grey Days" (Johnson).
 "Nita Gitana" (Newton).
 3.46: ST. VINCENT DE PAUL'S BOYS' BAND—
 An Eastern Romance, "Under the Palms" (Rimmer).
 March, "The Gladiator" (Souza).
 3.55: COLIN THOMSON, Tenor—
 "O Flow'r of All the World" (Woodforde-Findon).
 "The Gates of 'I' Ever" (Eric Coates).
 4.1: PICCINI and CERA, Novelty Instrumentalists—
 Overture, "Tancredi" (Rossini).
 March, "On the Paragon."
 4.10: COMPTON COUTTS, Comedian—
 "Aerial Anecdotes."
 4.16: MORAN HILFORD, Basso—
 Two Desert Love Songs.
 4.22: ST. VINCENT DE PAUL'S BOYS' BAND—
 Selection, "The Yeoman of the Guard"
 During the afternoon progress scores in the International Cricket Match—South Africa v. Queensland—played at Brisbane, will be broadcast as they come to hand.

EVENING

- 5.45: "BILLY BUNNY" has a chat to his little listeners, and then tells a delightful story suitable for tiny folk. The News from the Children's Bulletin will be read next.
 6: The Cuckoo Clock.
 A SURPRISE ITEM
 By—
 "JACK HORNER" and "LITTLE MISS MUFFET."

- 6.20: Birthday Greetings by "BILLY BUNNY."
 6.30: Musical Interlude.
 6.35: WOMEN IN SPORT—
 A Summary of the Week's Activities.—
 MISS M. A. BECKINGSALE.
 6.50: Musical Interlude.
 6.58: What's on the Air Tonight.
 7: Time Signal.
 7.1: COUNTRYMAN'S SESSION.
 7.25: THE FINANCIAL BAROMETER—
 The Official Weekly Report from the Stock Exchange of Melbourne.
 7.40: News Service. Cable News Service. Police Messages.
 7.45: SCHOOL LIFE AND SPORT—
 MR E. C. H. TAYLOR.
 At approximately 7 p.m. "Stumps" scores in the International Cricket Match—South Africa versus Queensland — at Brisbane, will be broadcast.

NIGHT

- 8.0: A.B.C. Concert Orchestra—
 "In a Lover's Garden" (Ketelbey).
 8.10: THE MASTER FOUR—
 Harmonised Numbers.
 8.20: HON. J. A. BOYD, "Prosperity Campaign."
 8.30: See panel on previous page.
 After Act I. of scene I. of "Shamus O'Brien," PAUL EDMONDS, Examiner for Trinity College in London, will speak on "The Value of Elocution in Education."
 10.30: Official Weather Data. Police Messages. Items of Interest.
 10.33: ART, CHAPMAN AND HIS REX ORCHESTRA—
 Latest Numbers.
 11.30: Close Down.

3AR, Melbourne**MORNING**

- 8.15: "Austradio" Musical Reproduction.
 8.45: Weather data.
 9.1: News Service. Cable News Service. Police Messages.
 9.5: "Austradio" Musical Reproduction.
 10.1: "Austradio" Musical Reproduction.
 10.10: Announcements.
 10.15: "Austradio" Musical Reproduction.
 10.30: ARNOLD COLEMAN at the Grand Organ.
 10.45: THE DAILY BROADCAST SERVICE.
 12.1: "Austradio" Musical Reproduction.
 12.15: SOME PROBLEMS IN MODERN ART
 "A Contrast in Sculpture—Two Statues by Rodin."
 MISS STEPHANIE TAYLOR.
 12.30: "Austradio" Musical Reproduction.

AFTERNOON

- The Artistic Reproduction of Absent Artists.
 2.1: GRAND OPERA: "Tannhauser" Act 1. (Wagner.) Sung in German at the Beyreuth Festival, by Principals, Chorus and Orchestra.
 Note.—During the afternoon, Progress Scores of the SOUTH AFRICA v. QUEENSLAND Cricket Match will be broadcast as they come to hand.
 3.0: THE WEEK'S HEALTH TALK:
 "Summer Foods"
 DR. J. DALE, Melbourne Medical Officer of Health.
 3.15: Musical Interlude.

3.30: HUMAN GEOGRAPHY:

- "Man, the Maker"
 DR. G. L. WOOD, M.A.
 4.0: Musical Interlude.
 4.15: "Austradio" musical reproduction.
 5.0: G.P.O. chimes.
 5.1: "Austradio" musical reproduction.
 5.30: weather data. Shipping information.
 5.45: Close down.

EVENING

- 6.15: DINNER MUSIC
 7.30: What's on the Air Tonight.
 7.32: Sporting results. Stump scores of cricket match, SOUTH AFRICA versus QUEENSLAND at Brisbane.
 7.55: Latest musical releases.

NIGHT

- 8.0: EVOLUTION—
 No. 8: "Sex and Sexual Selection."
 DR. O. V. TIEGS.
 BRASS BAND MUSIC AND VARIETY.
 8.20: ST. AUGUSTINE'S BOYS' BAND—
 Selection: "Irene" (Tierney).
 8.30: J. CLARKE SCOTT, tenor—
 "My Beloved Queen."
 "Skippers of St. Ives" (Roedel).
 8.36: PICCINI AND CERA, instrumentalists,
 "Pot-pourri Populaire" (Arr. Piccini and Cera).
 "Capriccio" (Deiro).

- 8.44: ST. AUGUSTINE'S BOYS' BAND—
 Selection: "L'Arlesienne" (Bizet).
 8.54: MINNIE MARKS, mezzo-soprano—
 "Happy Song" (Del Riego).
 "The Little Hills" (Gleeson).
 "Joy" (Harvey Gaul).
 9.0: Comedy sketch—"WELL, I DECLARE,"
 By ALF. J. LAWRENCE.
 Scene: H.M. CUSTOMS
 He ALF. J. LAWRENCE
 She NELL CRANE
 9.15: ST. AUGUSTINE'S BOYS' BAND—
 (a) "Millions of Harlequins" (Drigo).
 (b) "Good Night, Sweetheart."
 9.23: J. CLARKE SCOTT, tenor—
 "Afton Water" (Hume).
 Selected.
 9.30: PICCINI AND CERA, instrumentalists,
 "Lucia di Lammermor" (Donizetti).
 "La Paloma" (Yradier).
 9.39: ST. AUGUSTINE'S BOYS' BAND—
 (a) "Hungarian" (Berlioz).
 Cornet solo, "My Song of Songs" (Moya).
 9.47: MINNIE MARKS, mezzo-soprano—
 "La Serenata" (Tosti).
 "Wait" (D'Hardelot).
 9.53: "MUSICAL MUSINGS," by
 ALF. J. LAWRENCE and NELL CRANE.
 10.5: ST. AUGUSTINE'S BOYS' BAND—
 Selection, "The Condoliers" (Sullivan).
 10.15: Weather information and Herald news. Cable News Service. Police Messages.
 10.30: Close down.

2FC, Sydney**MORNING**

- (Relayed to 2NC, Newcastle)
 7.0: "Big Ben." Early Rising Music, Meteorological Information for the Man on the Land.
 7.10: This Morning's News.
 7.13: Cables.
 7.15: Studio Music.
 7.20: A Short Daily Commentary for the Man Outback.
 7.28: Radio Rhythm.
 7.45: Mails and Shipping.
 7.48: What is on Today.
 7.50: Music from the Studio.
 8.15: Close.
 (Completion of Relay to 2NC, Newcastle.)
 (Relayed to 2NC from 10.40 a.m.)
 10.30: Announcements.

- 10.42: HORACE WEBER at the Grand Organ.
 10.45: Morning Devotion.
 11.0: Studio Music.
 11.5: Household Helps.
 11.20: Austradio Musical Reproduction.
 12.0: "Big Ben," Stock Exchange and Metal Quotations.
 12.5: Current Topics.
 12.20: Metropolitan Forecast and Weather Synopsis. Special Produce Market Session for the Man on the Land.
 12.30: Close.
 (Completion of Relay to 2NC, Newcastle.)
 Important Note.—Scores in the Match, South Africa v. Queensland, played at Brisbane, will be given at the fall of

each wicket, lunch, and tea adjournments, and stumps drawn.

- 1.0: THE A.B.C. STRING SEPTET.
 1.57: Sectional Weather Forecast.
 2.0: Stock Exchange.
 2.2: A Glance at the Afternoon Sun and World.
 2.8: Austradio Musical Reproduction.

AFTERNOON

- (Relayed to 2NC, Newcastle)
 2.30: Announcements.
 2.32: MISCHA DOBRINSKI, Violinist—
 Largo from "New World Symphony" (Dvorak-Kreisler).
 "Serenade" (Lehar).
 2.39: ROBERT AGNEW, Tenor—
 "O, Maiden, My Maiden" (Lehar).

- 2.42: VICTOR OLOF SEXTET—
A Group by MacDowell—
"To a Water Lily."
"To a Wild Rose."
"In Autumn."
- 2.48: MADAME DOBRINSKI, Monologues—
"Janie" (Scott-Gatty).
"Butterflies" (Shaw-Mayer).
"Foolish Questions" (Sloane).
- 2.55: LOTTE LEHMANN, Soprano—
"How Like a Flower Thou Bloomest" (Schumann).
- 2.58: ARNOLD BRILHART, Saxophonist—
"Fascination" (Bernie).
- 3.1: The Latest Melodies.
- 3.8: ROBERT AGNEW, Tenor—
"Look Down, Dear Eyes" (Fisher).
- 3.11: Music of the Moment.
- 3.19: MISCHA DOBRINSKI, Violinist—
"Minuetto" (Martini-Corti).
- 3.22: Popular Numbers.
- 3.30: CAPTAIN FRED AARONS will tell of "The Democracy of Athens."
- 3.45: Musical Items.
- 3.52: MISCHA DOBRINSKI, Violinist—
"Danse Szigane" (Nachez).
- 3.55: MADAME DOBRINSKI, Monologues—
"There are Fairies at the Bottom of Our Garden" (Lehmann).
"Jest Her Way" (Aitken).
"Daddy's Sweetheart" (Lehmann).
- 4.2: Popular Melodies.
- 4.9: ROBERT AGNEW, Tenor—
"God Put a Rose in My Garden" (Lohr).
"The Waltz of Love" (Armstrong and Dyson).

- 4.16: RAIE DA COSTA, Novelty Pianist—
"The Big Pond" (Fain).
- 4.19: Music of Today.
- 4.28: Stock Exchange.
- 4.30: Close.

EVENING

- (Relayed to 2NC, Newcastle)
- 5.45: Children's "Good-night" Stories, told by the "HELLO MAN," assisted by AUNT EILY.
- 6.15: The 2FC Hospital Birthday League.
- 6.30: The Serial.
- 6.45: THE A.B.C. STRING SEPTET.
- 7.20: A.B.C. Sporting Service. Special Country Session. Stock Exchange Resume.
- 7.45: Late News.
- 7.51: Cables.
- 7.58: Announcements.

EVENING

(Relayed to 2NC, Newcastle, Between 8 and 11 p.m.)

NIGHT

- 8.0: (Relayed to 2NC, Newcastle) from the Mosman Town Hall—
Community Singing.
Under the direction of
CHARLES LAWRENCE.
Assisting Artists—
THE KAMALA TROUPE, Instrumentalists—
"Southern Blues" (Keowi).
"My Canary Has Circles Under his Eyes" (Kohler, Pola, Golden).

- "Hawaiian Twilight" (Keowi).
"Apple Blossom Time" (De Rose, Tobias).
"Hello, Beautiful" (Donaldson).
"Hawaiian Hotel" (Oeman).
"Dream a Little Dream of Me" (Schwant).
"You're Driving Me Crazy" (Donaldson).
THE CAVALIERS, Vocalists—
"Pale Moon" (Logan).
"Bells of Notre Dame" (Klemm).
"Marika" (Peters).
"Plantation" (Steiner).
"Drink to Me Only" (arr. Parks).
"Funiculi, Funicula" (Denza).
JOHN STUART, Comedian—
"The Wise Man and the Fool" (Rutherford and Elliott).
"Dame Study: Now You Know" (Rose).
SADIE ANDERSON, Soprano—
"Yours and Mine" (Burke).
"Girl of Yesterday" (Lawrence).
"My Rose" (Malcolm).
"Carolina Mammy" (James).
10.30: Late Official Weather Forecast.
10.32: MERV LYONS' ORCHESTRA, from Romano's Cafe. (Completion of Relay to 2NC, Newcastle, at 11 p.m.)
11.30: Close.

2BL, Sydney

MORNING

- 8.15: G.P.O. Chimes.
A Musical Interlude.
- 8.40: Meteorological data for the country.
- 8.45: Mails and shipping information.
- 8.50: Memory Melodies.
- 9.0: This Morning's Story.
- 9.30: Songs grave and gay.
- 9.40: Moments Musical.
- 10.5: News.
- 10.8: Cables.
- 10.10: Studio Music.
- 10.15: A Racing talk by the A.B.C. Racing Observer, M. A. FERRY.
- 10.30: Musical Items.
- 10.35: The Australian Broadcasting Company's Women's Association, conducted by MISS GWEN VARLEY.
"Tennis Queries and their Answers."
"Intimate Facts About Fashion," by MRS. MARY LIDDELL.
- 11.0: Close.
- 12.0: G.P.O. chimes and announcements.
Metropolitan forecast and weather synopsis.
- NOTE.—Cricket scores at the fall of each wicket and at lunch and tea adjournments, and stumps drawn in the match, South Africa v. Queensland, played Brisbane, will be transmitted as received.
- 12.2: Studio music.
- 12.30: THE A.B.C. STRING SEPTET.
- 1.0: Afternoon News.
- 1.6: Cables.
- 1.8: Sectional weather forecast.
- 1.11: Radio Rhythm.
- 1.25: Austradio Musical Reproduction.
- 2.0: This Afternoon's Story.

AFTERNOON

- 2.30: BROWNING MUMMERY, Tenor—
(a) "Love Went a-Riding" (Bridge).
(b) "Had You But Known" (Denza).
- 2.36: Selections by Orchestras of the world.
- 2.45: The Women's Hour, conducted by THE A.B.C. WOMEN'S ASSOCIATION.
"C.W.A. News."
A Musical Interlude.
"Women's Contribution on Municipal Councils," by MRS. HOWELL.
Musical items.

"Keeping Your Child Busy and Happy," by MISS GWEN VARLEY.

- 3.45: JOHN BARBIROLLI'S CHAMBER ORCHESTRA—
Introduction and Allegro for Strings (Elgar).
- 4.0: WITH THE OLD MASTERS—
LONDON SYMPHONY ORCHESTRA.
"Fantasia and Fugue" (Bach)
LOTTE LEHMANN, Soprano—
"Frauenliebe und leben" (Schumann).
"Seit ich ihn gesehen—er, der Herrlichste von allen."
- 4.15: RAYMOND NEWELL, Baritone—
"I Married a Wife" (arr. Melvin).
- 4.18: MADAME VAN BARENTZEN, Pianist
"Andaluz" (de Falla).
- 4.22: DR. EUGENE ORMANDY, Violinist
"Hymn to the Sun" (Rimsky-Korsakoff).
- 4.35: Radio Rhythm.
- 4.45: Demonstration music.
- 5.40: Weather information.
- 5.45: Close.

EVENING

- 6.15: THE A.B.C. STRING SEPTET.
- 6.45: The Boy Scouts and Girl Guides' Session.
- 7.5: The Country Man's Market Session.
- 7.20: THE A.B.C. STRING SEPTET.
- 7.35: The University Extension board lecture.
General subject: "Some Writers of this and the last generation."
Tonight MR. H. M. GREEN will speak on "Galsworthy as a Satirist."
- 7.55: A Musical Item.
- 7.58: What's on the air tonight?

NIGHT

- 8.0: THE NATIONAL BROADCASTING ORCHESTRA, conducted by E. J. ROBERTS—
"Mignon Overture" (Thomas).
- 8.10: MOLLY DE GUNST, Soprano—
(a) "Aimons-nous" (Saint-Saens).
(b) "Le Cloche" (Saint-Saens).

- 8.17: "Leaves of Memory."
This is chapter four of "Leaves of Memory," and is arranged for radio by ELLIS PRICE.
- 8.32: THE NATIONAL BROADCASTING ORCHESTRA—
Poem Symphonique, from Viennese Nights (Romberg, arr. Fred White).
- 8.42: JOYCE AND INEZ LANG, Harp and Violin—
(a) "Nina" (Pergolesi).
(b) "A Rose" (Ethelbert Nevin).
- 8.49: FRANCIS HALLS, Basso. A group by Allitsen—
(a) "Since My Love Now Loves Me Not."
(b) "Oh Death, It is the Cold, Cold Night."
(c) "King Duncan's Daughters."
- 8.56: THE NATIONAL BROADCASTING ORCHESTRA—
"Surprise Symphony" (Haydn).
- 9.11: JULES VAN DER KLEI, Cellist—
"Air" (Bach).
- 9.18: MOLLY DE GUNST, Soprano—
Two numbers by Kramer.
(a) "The Last Hour."
(b) "We Two."
- 9.25: THE NATIONAL BROADCASTING ORCHESTRA—
"From India, Suite Orientale" (Popy).
- 9.35: JOYCE AND INEZ LANG, Harp and Violin—
"La Capricciosa" (Ries).
- 9.42: THE NATIONAL BROADCASTING ORCHESTRA—
Fantasia from the Opera, "Don Juan" (Mozart, arr. Schreiner).
- 9.54: FRANCIS HALLS, Basso—
(a) "Doubt" (Coates).
(b) "Charity" (MacDermid).
(c) "Sons of the Sea" (Coleridge-Taylor).
- 10.1: JULES VAN DER KLEI, Cellist—
(a) "Moment" (Schubert).
(b) "Ave Maria" (Schubert).
- 10.8: THE NATIONAL BROADCASTING ORCHESTRA—
(a) "Jueux d'Enfants, Petite Suite" (Bizet, arr. Finck).
(b) "Gipsy Rondo" (Haydn).
- 10.25: Late news.
- 10.28: Late weather forecast.
- 10.30: Close.

Sunday Evening
at
Sandy McNab's

HAVE you become acquainted with Sandy McNab, Ma, Cap'n Rogers, Dr. Tanner, Peter, Lizzie, Mrs Parker and the other Jonesport folk who are heard from 3DB at 9.15 every Sunday evening?

MORNING

- (Relayed to 4RK Rockhampton)
 7.30: The Radio Chimes.
 7.31: Musical Greetings.
 7.34: Weather Information.
 7.40: Cable News.
 7.43: News Service.
 7.50: Morning Melodies.
 8.0: Comments on Today's News.
 8.10: Musical Interlude.
 8.25: What's On Today.
 8.30: Close.

- (Relayed to 4RK Rockhampton, except from 11.23 a.m. to 11.30 a.m.)
 11.0: The Daily Broadcast Service.
 11.10: The Morning Musicale.
 11.23: Social News.
 11.30: Popular Musical Releases.

12.0: The International Cricket Match between Queensland and South Africa will be described from the Cricket Grounds. The relay will continue until the luncheon adjournment, the commercial session being delayed for half an hour in order to enable listeners to follow the whole of the morning's play.

- 1.30: Countryman's Service-Section.
 2.0: Close.

AFTERNOON

- (Relayed to 4RK Rockhampton)
 3.0: A description of the International match between Queensland and South Africa will be broadcast from the Brisbane Cricket Ground.
 4.0: During the afternoon tea adjournment mail train running times will be announced followed by a musical interlude from the Studio.

4QG, Brisbane

4.15: With the resumption of play the description will be continued until stumps are drawn.
 6.0: Stumps Drawn.

EVENING

- Relayed to 4RK Rockhampton from 6.15.
 6.0: Musical Interlude.
 6.5: Listeners' Shipping Service. Express Train Information. Mail Notices. Stock Exchange Notes.
 6.15: For the Children.
 6.45: Countryman's Service Section.
 7.0: Dinner Music.
 7.23: News Service.
 7.30: MR J. DOYLE will talk on "Books."
 7.40: A.B.C. Sporting Notes.
 7.55: Musical Interlude.
 7.59: Time Signals.

NIGHT

- (Relayed to 4RK Rockhampton).
 8.0: THE 4QG QUINLETTE—
 Overture: "Maid and Minstrel" (Greunwald).
 8.8: JAMES MARTIN (Tenor): "A Spirit Flower" (Campbell - Tipton). "Duna" (McGill).
 8.15: HILDA WOOLMER (Pianist): "The Submerged Cathedral" (Debussy). "Valse in E Minor" (Chopin).
 8.22: LOLA DEACON (Contralto): "Like to the Damask Rose" (Elgar). "Kashmiri Song" (Woodforde-Finden).
 8.28: THE 4QG QUINLETTE: The "Andante" and "Scherzo" Movements from the Quintette in F Minor for Piano and Strings (Brahms).

- 8.44: PATRICIA McONIGLY (Soprano): "O Divine Redeemer" (Gounod).
 8.48: MAX MULLER (Cellist): "Madrigal" (Gillet). "Petite Valse" (Wittenbecker).
 8.54: JAMES MARTIN (Tenor): "Ave Maria" (Mascagni). "I Hear a Thrush at Eve" (Cadman).
 9.0: Metropolitan Weather Forecast.
 9.2: Trio for Piano, Violin and Cello: "Lullaby" (Brahms). "Sizilietta" (Von Blon).
 9.7: PATRICIA McONIGLY (Soprano): "Pleading" (Elgar). "Along the Willows".
 9.14: THE 4QG QUINLETTE: Suite, "A Lover in Damascus" (Woodforde-Finden). 1. "Far Across the Desert Sands." 2. "Where the Abana Flows." 3. Beloved, in Your Absence." 4. How Many a Lonely Caravan." 5. If in the Great Bazaars." 6. Allah, be with us."
 9.25: LOLA DEACON (Contralto): "Thanks be to God" (Dickson). "Little Rose of Love" (Forster).
 9.31: Trio for Piano, Violin and Cello: First Movement from Trio in B Flat (Schubert).
 9.41: JAMES MARTIN (Tenor): "Like Stars Above" (Squire).
 9.45: STRING QUARTETTE: "2nd Movement from Quartet No. 7" (Dohnanyi).
 9.50: PATRICIA McONIGLY (Soprano): "Pale Moon" (Knight Logan). "Home, Little Maori Home" (Alfred Hill).
 9.56: THE 4QG QUINLETTE: "Love Waltz" (Moskowski).
 10.0: Weather Information. Cable News. News Service.
 10.15: A Review of Today's Play in the International Match—South Africa versus Queensland.
 10.30: Dance Music.
 11.0: Close.

5CL, Adelaide**MORNING**

- 7.30: Cheer Up and Cheer On Message.
 7.31: The Morning's News.
 7.40: Bright Morning Music.
 8.0: Time Signal.
 8.1: News and Notes of Many Topics.
 8.10: Bright Morning Music.
 8.30: Close down.
 During the day scores of the cricket—South Africa v. Queensland, at Brisbane, will be broadcast immediately they come to hand.
 11.0: The Daily Broadcast Service, conducted by REV. E. A. DAVIES.
 11.10: Morning Melodies.
 11.28: Sporting fixtures.
 11.30: Homecrafts, conducted by "SUZETTE."
 11.45: Popular Songs and Music (Latest recordings).
 12.0: Time Signal.
 12.1: Commercial Session.

- 12.15: News Session.
 12.30: Austradio Mid-day Melodies.
 12.50: Weather and Grain Report.
 1.0: Popular Music Session.
 1.5: The World's News.
 1.15: Popular Musical Session (continued).
 1.59: Items of Interest.
 2.0: Time Signal. Close down.

AFTERNOON

- 3.0: Time Signal.
 3.1: "In Town and Out," by "LADY TULLIVER."
 3.15: A selection of light classics with vocal interspersions.
 4.29: Items of Interest.
 4.30: Close down.

EVENING

- 5.50: Birthday Greetings and Correspondence.

- 6.0: "AUNTIE PEGGY" will entertain.
 6.30: Bright Dinner Music Reproductions.
 7.0: "News" Service. Sporting service, including cricket scores in the match—South Africa v. Queensland, at Brisbane. Stock Exchange information. Market reports.
 7.15: Musical Interlude.
 7.25: The 5CL Twinkler Boys' Club. Conducted by "THE TWINKLER" (MR F. J. MILLS).
 7.50: Let's Talk of Places and Things—of People and Kings.

NIGHT

- 8.0: Shamus O'Brien. A delightful old Irish comic opera in two acts. See 3LO for details.
 10.15: News Session.
 10.20: ART. CHAPMAN AND HIS REX ORCHESTRA. Latest numbers.
 11.0: Close down.

3DB, Melbourne**MORNING**

- 7.0: Brighter Breakfast Session, conducted by DAYBREAK DAN.
 10.45: Studio Programme.
 12.0: Community Singing, conducted by CHARLIE VAUDE and RENN MILLER.
 1.30: Market Reports.

AFTERNOON

- 2.15: A. & R. Ingwersen's Session.
 2.30: Household Harmonies—
 STRAD TRIO—
 (a) "Andante" (Beethoven).
 (b) "Guitar Player" (Schytte).
 DOROTHY D'ORN, Soprano—
 "Waltz Song" from "Romeo and Juliet."
 MAY BRODERICK, Piano—
 "Musical Box" (Liadoff).
 DOROTHY D'ORN and PERCY BLUNDELL—
 "The Miserere" from "Il Trovatore."
 CECIL PARKES, Violin—
 "Caprice No. 20" (Paganini).
 PERCY BLUNDELL, Tenor—
 "Moire My Girl."
 STRAD TRIO—
 (a) "When the Clock is Striking Twelve" (Wayne).
 (b) "The Toy Soldiers' March" (Kreisler).
 3.15: The Sun Sunshine Hour.

EVENING

- 5.30: Musical Interlude.
 6.0: Dinner Music—
 BERLIN PHILHARMONIC ORCHESTRA—
 "Carnaval Romain."

- PETER DAWSON, Bass-baritone—
 "Follow Me Ome."
 ALBERT SPALDING, Violin—
 "Cavatina."
 SYLVIA CECIL, Soprano—
 "Early in the Morning."
 NEW MAYFAIR ORCHESTRA—
 "Five O'clock Girl."
 PERCY HEMING, Baritone—
 "Salaam."
 B.B.C. MILITARY BAND—
 "Dance of the Tumblers."
 MARIE MORRISEY, Contralto—
 "When Twilight Comes."
 RAIE DA COSTA, Piano—
 "Ol' Man River."
 RICHARD TAUBER, Tenor—
 "Spring."
 GRAND SYMPHONY ORCHESTRA—
 "Caliph of Bagdad."
 7.0: Smile Away Club Free Theatre Tickets.
 7.15: Market Reports.
 7.30: Pompadour Salon Concert—
 LA GARDE REPUBLICAINE BAND OF FRANCE—
 "La Marseillaise."
 PAUL GODWIN QUINTET—
 "Chant d'amour."
 TUDOR DAVIES, Tenor—
 "Ah, Moon of my Delight."
 MAURICE COLE, Piano—
 "Automne."
 ALMA GLUCK, Soprano—
 "The Lass With the Delicate Air."
 MELSA, Violin—
 "Gypsy Airs."
 PETER DAWSON, Bass-baritone—
 "Lover in Damascus."
 MINNEAPOLIS SYMPHONY ORCHESTRA—
 "Waiata Poi."

- 8.15: Rowntree's Revels.
 8.45: Shur-on presents "Your Eyes."
 9.0: Shell Company's Entertainment, conducted by Mr F. J. CAVE.
 9.30: A. W. Allen's Session.
 9.45: Anderson's Home Furnishing.
 10.30: News.
 10.45: Slumber Music—

3UZ, Melbourne

- 7.0-7.30: John Browning's brighter outlook session.
 7.30-8.30: Cheerful breakfast session.
 9.0-9.30: Wittner's foot comfort session.
 9.30-10.0: Nilsen's housewives' session.
 10.0-11.0: Veall's Radiola hour.
 11.0-11.30: Women's World morning tea session.
 11.30-12.0: S. L. Hickman's furnishing session.
 12.0-12.30: R. H. Brooks' furnishing session.
 12.30-1.0: Huntsman's millinery session.
 1.0 to 2.0: Community singing from the Assembly Hall, conducted by Mr. G. J. MACKAY.
 2.0-2.30: New Idea and Every-lady's Journal Housewives' session.
 3.30-4.30: Argus hour of specially selected music.
 4.30: Radio Club session.
 5.30: Swallow Cook entertainments.
 6.0: Birthday greetings.
 6.50-7.0: 3UZ Listeners' Club—free theatre tickets.
 7.15-7.30: Preservene entertains.
 7.30-7.45: Pioneer Motor Tours' session.
 7.45-8.15: Maples musical session.
 8.15-8.30: Mr. C. Carlson's Eugene permanent wave session.
 8.30-8.45: MacRobertson's novelty centres' session.
 8.45-9.0: Coles and Garrard's session.
 9.15: A. W. Allen's "Florison" session.
 9.15-9.30: Gramophone selections.
 9.30-9.45: Fisher's "Champion" brand session.
 10.15: Argus news service.
 11.0: Close down.

3KZ, Melbourne

8.30 to 9.0: H. S. K. Ward's breakfast session. 9.0 to 10.0: Morning music. 10.0: Station announcements. 10.5 to 10.20: Morning music. 10.20 to 10.50: Davis Bros. furniture session. 11.30 to 12.0: Russell's yeast. 12.0 to 12.30: Pears Pty Ltd. Furniture Session. 12.30 to 1.0: Luncheon music. 1.30 to 2.30: Campbell's car and radio session. 2.30 to 3.0: Rev. Dr. BLACKNEY (health talk). 3.0 to 3.30: Robur Tea session, conducted by Robur Tea girl. 3.30 to 4.0: Swallow Cook session. 4.0: Close down. 5.30 to 6.0: UNCLE JOE talks to all kiddies in hospitals. 6.0 to 6.30: Evening music. 6.30 to 6.40: Old Man Talkie (10min.). 6.40: Drawing of theatre tickets. 6.45 to 7.0: Universal motor cycle parts session. 7.30 to 8.0: Madame Pompadour's session. 8.0 to 8.15: Lifesavers session. 8.15 to 10.0: Evening music. 10.0: Station announcements. 10.5: Dance music. 11.30: Close down.

7ZL, Hobart

7.30: Time signal. 7.31: News. Cable news. 7.40: Morning melodies. 8.0: G.P.O. clock chimes the hour. 8.1: News and Notes of many topics. 8.10: Musical reproductions. 11.0: G.P.O. Clock chimes the hour. 11.1: The Daily Broadcast Service. 11.15: The A.B.C. Women's Session. The younger set session, conducted by MISS M. EADY, MISS E. VAGLE, Talk: "Items of Interest." 11.45: Midday Melodies. 12.30: Comments on Current Topics. 12.40: Commercial News. Stock Exchange information. 12.47: News. 12.53: Weather information. 1.0: G.P.O. clock chimes the hour. 1.1: "Austradio" Reproductions. 2.0: Close down.

3.0: G.P.O. clock chimes the hour. A programme of Springtime Melodies. "Wild Flower Selection." SAVOY ORPHEANS. "To a Wild Rose" (MacDowell). FELIX SALMOND, Cello. "Sweetest Flower that Blows" (Hawley). EDNA THORNTON, Contralto. "Rose Mousse" (Bosc). Band. "Last Rose of Summer" (Moore). FLORENCE AUSTRAL, Soprano. "A Sprig of Boronia" SYDNEY COLTHAM, Tenor. "Rustle of Spring" (Sinding). MAX DORRESKI, Piano. "Lilac Time" (Schubert). COLUMBIA LIGHT OPERA ORCHESTRA. "Fair Rosemary" (Kreisler). FRITZ KREISLER, Violin. "The Rose of Tralee." JOHN McCORMACK, Tenor. "Spring Song" (Mendelssohn). NEAPOLITAN TRIO. 3.50: Today's Short Story. 4.0: G.P.O. Clock chimes the hour. An Afternoon Concert. "Maid of the Mountains" (Simpson). "Caprice Viennois" (Kreisler). SAN FRANCISCO ORCHESTRA. "Song of the Nightingale." EVELYN SCOTNEY, Soprano. "Blue Danube" (Strauss). "Tales of the Vienna Woods." PHILADELPHIA ORCHESTRA.

6.0: G.P.O. Clock chimes the hour. 6.1: The Children's Corner, with "THE RAINBOW MAN" and "WITENA." 6.30: Dinner music. 7.15: News. Stock Exchange information. Market reports. 7.25: PROFESSOR A. B. TAYLOR, M.A. Talk: "English Books—The Making of English Grammar." 7.50: Sporting interlude. 8.0: G.P.O. Clock chimes the hour. Unit I. Music and Song of the Orient. An Oriental Mosaic in sound with poetry, comedy and philosophy, and romance. March: "Crown of India" (Elgar). Suite: "Lover in Damascus" (Finden). A.B.C. STUDIO ORCHESTRA. "Where My Caravan Has Rested" (Lohr). "Temple Bells" (Finden). JACK CARTER, Baritone. "Hymn to the Sun" (Rimsky-Korsakov). "In a Persian Market." A.B.C. STUDIO ORCHESTRA. "Song of India" (Rimsky-Korsakov). "Feast of the Lanterns" (Bantoc). LILA HARVEY, Soprano. "Orientale" (Cul). LYNDIA SHEEN, Violin. "Kashmiri Love Song" (Finden). JACK CARTER, Baritone. "Vision of Salome" (Joyce). A.B.C. STUDIO ORCHESTRA. "Hindoo Song" (Bemberg). LILA HARVEY, Soprano. "In a Persian Garden" (Lehmann). A.B.C. STUDIO ORCHESTRA. 9.0: Unit 2. "Uanmee's Old Curiosity Shop." 9.15: Unit 3: "A Rhapsody in Blue." Played by RITA AND NANCY FOX. 9.30: Unit 4: Fireside Fantasy. A Reproduced Musical Scene entitled Slumber Time. 10.0: Unit 4: News. Meteorological information. Resume of tomorrow's programme. Comments on current topics. 10.15: Unit 5: Dance session.

2GB, Sydney

7.0: Breakfast session, conducted by Miss GOODIE REEVE. Music. 7.8: News from the Daily Telegraph. 7.15: Music and entertainment by Miss GOODIE REEVE. 8.30:

Tiny Tots' Breakfast Session, by Miss REEVE. 9.0: Morning talk to old and sick folk by Mrs. JORDAN. Personal problems by Mrs. JORDAN. 10.0: Storeyette of industry. 10.1: Address by Mr. A. E. BENNETT—"The Happiness Doctor." 10.15: Women's radio service by Mrs. DOROTHY JORDAN. Music. 11.0: Recipe by Mrs. JORDAN. Music. 11.30: Close down. 12.15: Lunch hour musical session. 2.0: Women's session, by Mrs. W. J. STELZER, founder of the 2GB Happiness Club. House-keeping hints and shopping guide. Music. 3.0: Address by Mr. HAROLD MORTON. 3.10: Afternoon tea musical programme. 2GB at home. Radio hostess, Miss GOODIE REEVE. 4.30: Storeyette of industry. 4.32: Music. 4.45: UNCLE GEORGE'S Tiny Tots' Session. 5.0: Children's Session by UNCLE GEORGE. 6.0: Choco's Aeroplane trip. 6.45: Advanx Radio Club. 7.15: Storeyette of industry. 7.16: Music.

8.0: Orchestra. Overture. 8.10: EILEEN MACK, soprano—"It is a year almost, 'Star of love.'" 8.18: Violin solo. 8.22: ALFRED BARCLAY, baritone—"Red Star of Romany" (Sanderson). 8.26: Piano solo by VINCENT BLIGHT—"Sylvia Ballet" (Delibes). 8.30: ALFRED BARCLAY, baritone—"Slow Coach" (Bennett). 8.35: Banjo solo. 8.40: Piano solo by VINCENT BLIGHT—"Liebesreud" (Kreisler). 8.45: Violin solo. 8.50: EILEEN MACK, soprano—"Dearest Love, I love the morning." 8.54: Cello solo. 8.58: EILEEN MACK, soprano—" 'Twas in the Merry Month of May." 9.0: Weather report. 9.3: Piano solo by VINCENT BLIGHT—"Silver Stream" (Barnes). 9.7: ALFRED BARCLAY, baritone. 9.11: ALFRED BARCLAY, baritone—"Dedication" (Schumann). 9.20: Violin solo. 9.30: Orchestra. 9.35: Cello solo. 9.40: Banjo solo. 9.50: Vocal quartet. 9.55: Orchestra. 10.0: Instrumental music. 10.45: Slumber music.

2KY, Sydney

10.0: Tune in to the ticking of the clock. 10.3: Popular Fox Trots. 10.15: Musical and vocal entertainment. 11.0: Women's Session. Conducted by MRS GRAY. 11.30: Music from the studio. 11.55: Resume of tonight's programme. 12.0: Closing announcements.

6.0: Birthday calls, request numbers and Kiddies' Entertainment—UNCLE BERT. 6.45: Fostars Dinner Entertainment. With GOODOH FOSTAR. 7.40: A Talk on the Garden—MR G. L. GELLATLY. 7.55: Musical interlude.

8.0: Clock chimes. 8.1: Studio programme. 9.0: Popular Dance Music. Presented by HARCOURT GARDEN.

2UW, Sydney

7.30: Breakfast music and news. 8.45:

Housewives' Guide. 9.0: Close down. 10.30: "Carnival Overture" (Dvorak). 10.40: Music and news. Women's Session, conducted by LOUISE, comprising news, The Adventures of Mrs. Arris, music, homecrafts, birthday readings. 12.0: "Waltz of the Flowers" (Tschaiakowsky). 12.10: Music.

Note—During the afternoon, at 2, 3, 4 and 5 p.m., the latest scores in the cricket match, South Africa v. Queensland, played at Brisbane.

2.30: Music for the trade. 5.15: Farmer's Children's Session, conducted by THE PROFESSOR and JILL. 6.0: Farmer's Dinner music. 6.30: Fox Hoyts Radio Club. 6.40: Music. 6.58: "Miss Sydney" Competition. 7.0: Comments on today's play South Africa v. Queensland. 7.10: Music. 8.0: Piano recital, "Liebestraume" (Liszt). 8.4: "Naila Waltz" (Delibes). 8.8: "Military March in E Flat" (Schubert). 8.13: "Triana" (Iberia) (Albaniz). 8.32: "Appassionata Sonata" (Beethoven). 8.32: "O April" (John Ireland). 8.35: "Waltz E Minor" (Chopin). 8.38: "Waltz C Sharp Minor" (Chopin). 8.40: A Mystery Play—"The Haunted House"—in 13 episodes, sponsored by Philips radio. The last episode (Part 13) will be given tonight. 9.0: Improvisation, C. J. ARNOLD. 9.10: Musical competition. 9.15: Request items.

5KA, Adelaide

6.30: Dawn music. 7.15: Watchtower Early Morning Service. 7.30: Splashes from the Frying Pan. 8.0: Close.

10.0: Special Women's Session conducted by COUSIN ADELAIDE. 12.0: Close.

5.45: Children's session. 6.15: Dinner music. 6.45: "Old Man Talkie." 7.0: Extract from Life. 7.15: News service. 7.30: Wurlitzer organ recital. 8.0: Topical chorus and birthday greetings by LES DAFFY. 8.10: Selections. 9.0: Shell Company's Session. 9.30: Musical programme.

5AD, Adelaide

7.0: Morning News. Weather, Commercial. 7.15: Morning Melodies. 8.30: Close. 10.0: News. 10.10: Musical Pot Pourri. 11.0: Homecraft by "NANETTE." 11.10: Morning Tea Musicale. 12.30: Close.

3.0: Grain Report, Weather, Music. 3.15: Radio Serial. 3.25: Pianoforte Recital. 4.0: Afternoon Tea Musicale. 5.0: Close.

5.30: Junior Listeners and Wireless Kangaroo. 6.0: Dinner Music. 6.55: Sunshine Club Notes. 7.0: RON and DON the Singing Serenaders. 7.45: Citizens' League Address. 8.0: News Bulletin. 8.6: Musical Session. 8.36: Recital. 9.0: News, Weather, Market Report, Stock Exchange, Fat Stock Market. 9.15: Band Concert. 10.0: News. 10.3: Listeners' Request Numbers.

OTHER STATIONS ON THE AIR

Station	Location	Wave length Metres	Power Watt	Hours on the air
3GL	Geelong	214	50	Sunday 1.30 to 3.0 p.m. W. Days 1.0 to 10.0 p.m.
3BA	Ballarat	231	50	Sunday 1.30 to 10.0 p.m. W. Days 7.0 to 10.30 p.m.
3TR	Trafalgar	234	50	Saturdays 7.0 to 11.0. W. Days 12 to 1.0 p.m.—7.0 to 10.0. Sundays 7.0 to 9 p.m.
3WR	Wangaratta	238	50	Sunday 8.0 to 9.30 p.m. W. Days 7.45 to 10.30 p.m.
3SH	Swan Hill	278	50	W. Days 7.30 to 10. Sunday 12.15 to 2.15. 4.15 to 6.30. 7.30 to 10.
3HA	Hamilton	297	200	12.0 to 2.0. 3.30 to 5.0. 6.30 to 11.0.
3BO	Bendigo	309	200	Sunday 7.0 p.m. to 9.30. W. Days 8 p.m. to 10.30.
2AY	Albury	203	50	Sunday 7.30 to 10.0. W. Days 7.0 to 10.30.
6WF	Perth	435	5000	Sunday 10.40 to 11.0. 12.0 to 4.55. 6.30 to 10.30. W. Days 7.30 to 8.30. 1.0 to 2.0. 3.0 to 4.30. 6.0 to 11.0.
6PR	Perth	341	200	10.30 to 11.30. 12.30 to 1.30. 4.30 to 5.30. 6.30 to 10.30.
4BC	Brisbane	262	600	Sundays 6.0 to 10.30. W. Days 10.30 to 12.0. 2.0 to 3.30. 5.45 to 10.0.
4TO	Townsville	256.4	100	Sunday 6.0 to 10.0 p.m.
3YB	Mobile	262	25	W. Days 3.0 to 4.30 p.m. 6.0 to 10.30 p.m.
7LA	Launceston	273	200	

TUESDAY

November 24

3LO, Melbourne

MORNING

7.0 to 8.15 as on Monday.

10.30: CURRENT HAPPENINGS IN SPORT
By ERIC WELCH.

10.45: "Austradio" Musical Reproduction.
11: Fish Market reports. Express train information.

11.5: "Austradio" Musical Reproduction.
11.30: Morning sales. Melbourne Stock Exchange. Metal prices.

11.33: "Austradio" Musical Reproduction.
12.0: Time Signal.

12.1: "Austradio" Musical Reproduction.
12.10: Programme announcements. News Service. Cable News Service. British Official Wireless News. Police Messages.

Corn Exchange Midday report. Newmarket Stock Sales. Associated Stock and Station Agents' Official Report.

12.30: Close down.

1.0: Time signal. Stock Exchange information. Shipping information. Meteorological data. Weather forecast. Ocean forecast. Rainfall data. River reports.

1.15: Comments on Current Topics.

1.30: "Austradio" Musical Reproduction.

AFTERNOON

2.0: ATTRACTIVE COOKERY—
"Christmas Cakes."
MISS E. H. EDDY.

2.15: Musical Interlude.

2.30: VIENNA SIDELIGHTS—
"The Courtesy of the Viennese."
MISS MOLLIE M. LINK.

2.45: Musical Interlude.

3.0: Time Signal.

3.0: A.B.C. QUINTETTE—
"The Pipes of Pan" (Logan).

3.8: NORMAN BRADSHAW, tenor.
"May the Maiden" (Carpenter).
"Ma Banjo."

3.14: LES RAPHAEL at the piano—
Novelty Numbers.

3.20: J. HOWARD KING, Baritone—
Two Songs by Frederick Keel:
"The Port of Many Ships."
"Trade Winds."

3.26: A.B.C. QUINTETTE—
"Merrie England" (German).

3.36: NORMAN BRADSHAW, tenor, and
VIOLET SEMPLE, contralto—
"Still as the Night" (Bohm).
"You'd Better Ask Me" (Lohr).
"The Little Red Lark" (Traditional).

3.42: TASMA TIERNAN, 'Cello—
"Consolation" (Squire).

3.46: A.B.C. QUINTETTE—
Scenes from "An Imaginary Ballet"
(Coleridge-Taylor).

3.54: VIOLET SEMPLE, Contralto—
"Have You Seen but a Whyte Lily Grow"
(Trad., Air arr. Liza Lehmann).
"I Attempt from Love's Sickness to Fly"
(Purcell).

4.0: LES RAPHAEL—
More "Piano Pyrotechnics."

4.6: A.B.C. QUINTETTE—
Waltz from "Faust" (Gounod).

4.12: J. HOWARD KING, Baritone—
"The Lowland Sea" (Branscombe).
"Five Eyes" (Armstrong Gibbs).

4.20: A.B.C. QUINTETTE—
"Twilight Lullaby" (Chenoweth).
"Can't You See" (McKay).

4.30: Close Down.

During the afternoon progress scores in the international cricket match, South Africa v. Queensland, played at Brisbane, will be broadcast as they come to hand.

EVENING

5.45: A "Stray Sunbeam" commences the Children's Hour, then "BOBBY BLUEGUM" has a jolly chat to the members of the Name Club, also a word of welcome to new clubbers. The Children's News Bulletin comes next.

6.0: The Cuckoo Clock.
Tonight 'ORACE sings a special new number.
'BOBBY BLUEGUM' entertains with the assistance of 'Ector and 'Orace.

6.20: "BOBBY BLUEGUM" says "Many Happies."

6.30: COMMUNITY SINGING NEWS.

6.35: AT HOME AND ABROAD—
By "THE WATCHMAN."

6.50: British Official Wireless News.

6.58: What's on the Air Tonight.

7.0: Time Signal.

7.1: COUNTRYMAN'S SESSION.

7.25: FOR THE MAN ON THE LAND.

"Current Orchard Work."
MR H. W. DAVEY,
Under the auspices of the Department of Agriculture.

7.40: News Service. Cable News Service. Police Messages.

7.45: THE CHARM OF TRAVEL—
"Aberdeen and the Dee Side."
MISS FRANCES FRASER.

At approximately 7 p.m. "Stumps" scores in the International Cricket match—South Africa versus Queensland—at Brisbane will be broadcast.

8.0: Time Signal.

NIGHT

8.0: See panel.

9.0: AN INTERLUDE
of
MEMORIES OF OLD MELBOURNE.

Vaudeville

9.15 JOHN WARREN
Tenor.

COMPTON COUTTS,
Comedian.

JACK O'HAGAN,

with
MARGOT SHERIDAN at the Piano.

COURTNEY FORD in Old Time
Comedy Numbers.

MacDUFF WILLIAMS,
with his
Saxophone.

Mr. and Mrs. FIELD-FISHER
A Comedy Sketch.

"DARBY" and "JOAN,"
In

Old Favorite Duets.

A.B.C. CONCERT ORCHESTRA.

10.30: Official Weather Data. Police messages. ERIC WELCH'S selections for the first day of the Bendigo Cup meeting tomorrow. Items of interest.

10.35: "MEDITATION" MUSIC.

11.30: Close down.

8.0 ——— TONIGHT ——— 3LO

ORCHESTRAL AND CHORAL RECITAL



by the

A.B.C. Concert Orchestra

and

Royal Victorian Liedertafel

8.0: A.B.C. CONCERT ORCHESTRA:
Suite: "Where the Rainbow Ends"
(Quilter.)

ROYAL VICTORIAN LIEDERTAFEL
(conducted by WILLIAM MCKIE).

(Accompanist: JOHN SIMONS.)

"Full Fathom Five" (Dunhill).

Old English Part Songs:

(a) "Lady, Those Eyes" (Morley).

(b) "How Merrily We Live" (Michael East).

THE ORCHESTRA:

Two Salon Pieces:

(a) "Menuet Impromptu" (John Ireland).

(b) "Villanella."

ROYAL VICTORIAN LIEDERTAFEL
Cavalier Tunes (Bantock):

(a) "Marching Along."

(b) "Give a Rouse."

THE ORCHESTRA:

"Lord Peter's Stable Boy" (Grainger).

ROYAL VICTORIAN LIEDERTAFEL

Traditional Songs:

"Drink To Me Only" (Arr. Elliott).

"All Through the Night" (arr. Green).

THE ORCHESTRA:

"Gavotte and Musette" (Raff).

ROYAL VICTORIAN LIEDERTAFEL

"Drake's Drum" (Coleridge-Taylor).

THE ORCHESTRA:

Suite: "Joyous Youth" (Eric Coates).

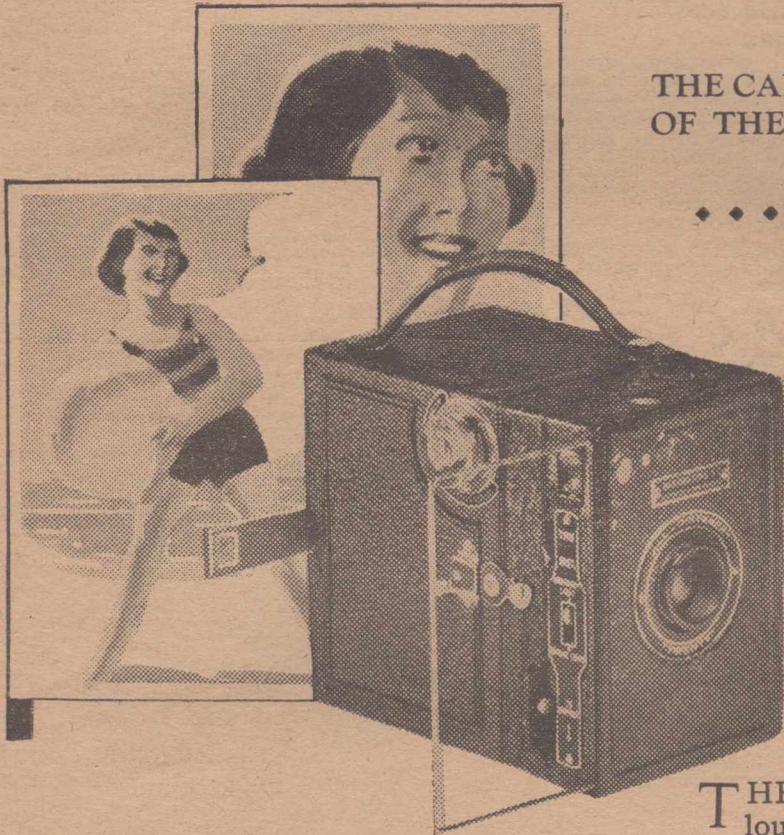
A LISTENER'S THANKS TO 3DB

Mrs L. V., Black Rock, writes:—When I had a wireless installed about a year ago I was suffering a great sorrow, and my world seemed to have fallen to pieces, but Charlie and Renn, with their nonsense, taught me to laugh again, and you with your bright morning sessions have been a wonderful tonic. So, my dear friends of the air, please accept my heartfelt thanks.

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MORNING

- 8.15: "Austradio" Musical Reproduction.
 8.45: Weather data.
 9.1: News Service. Cable News Service. Police Messages.
 9.5: "Austradio" Musical Reproduction.
 10.0: G.P.O. chimes.
 10.1: British Official Wireless News.
 10.10: Announcements.
 10.15: "Austradio" Musical Reproduction.
 10.45: THE DAILY BROADCAST SERVICE.
 11.0: Close down.
 12.0: G.P.O. chimes.
 12.1: "Austradio" Musical Reproduction.
 12.15: NATIONAL GALLERY TREASURES. "The Coffin of the Egyptian Theby."
 MR. N. BENPORATH.
 12.30: "Austradio" Musical Reproduction.
 2.0: G.P.O. chimes.

AFTERNOON

- The Artistic Reproduction of Absent Artists.
 2.1: GRAND OPERA: "Tannhauser." Act. II. (Wagner).
 Sung in German at BEYREUTH FESTIVAL by PRINCIPALS, CHORUS and ORCHESTRA.
 2.45: "Merchant of Venice Suite."
 JOHN BARBIRALLIS CHAMBER ORCHESTRA.
 NOTE.—During the afternoon Progress Scores in the Cricket Match, SOUTH AFRICA versus QUEENSLAND, at Brisbane, will be broadcast as they come to hand.

3AR, Melbourne

- 3.0: SEEING AMERICA UNCONVENTIONALLY—
 "Niagara Falls to Geneva."
 MR. W. RICHARD NORRIS.
 3.15: Musical Interlude.
 BROADCAST TO SCHOOLS.
 3.30: ENGLISH LITERATURE—
 "Milton's Paradise Lost," No. 2.
 PROFESSOR G. H. COWLING.
 4.0: Musical interlude.
 4.15: "Austradio" Musical Reproduction.
 5.0: G.P.O. chimes.
 5.1: "Austradio" Musical Reproduction.
 5.30: Weather data. Shipping information.
 5.45: Close down.

EVENING

- 6.15 DINNER MUSIC
 Supplied by the
 RADIO PLAYERS.
 7.30: What's on the Air Tonight.
 7.32: Sporting Results. Stump scores of Cricket Match, SOUTH AFRICA versus QUEENSLAND, at Brisbane.
 7.45: Latest Musical Releases.
 8.0: G.P.O. Chimes.

NIGHT

- 8.0: EVERYDAY PSYCHOLOGY—
 No. 9, "Learning—Are We Ever too Old to Learn."

2FC, Sydney

7.0 to 2.8: As on Monday.

AFTERNOON

- (Relayed to 2NC, Newcastle)
 2.30: Announcements.
 2.32: DAJOS BELA ORCHESTRA—
 "The Three Waltz Kings" (Strauss).
 2.40: TERENCE NUGENT, Tenor—
 "Caroline" (Freire).
 "When the Lilac Blooms Again" (Doelle).
 2.47: EDWARD D'EVRY, Organist—
 "Albumleaf" (D'Evry).
 2.51: Gems from Light Opera.
 2.59: OLGA LE GRAY, Soprano—
 "With You" (Berlin).
 3.2: CEDRIC SHARPE, 'Cellist—
 "The Gentle Maiden" (Sharpe).
 3.5: An Interlude of Humor.
 3.11: EDITH LORAND ORCHESTRA—
 "After the Ball" (Harris).
 3.15: TERENCE NUGENT, Tenor—
 "I Remember You from Somewhere" (Warren).
 3.18: With the Modern Composers.
 3.23: OLGA LE GRAY, Soprano—
 "Yours and Mine" (Burke).
 "For You" (Burke).
 3.30: ELSIE SEGARET will tell listeners of Austrians.
 3.45: J. H. SQUIRE CELESTE OCTET—
 "Collette" (Fraser Simson).
 "Memories of Devon" (Evans).
 3.51: MILDRED DILLING, Harp Solo—
 "Am Springbrunnen" (Zabel).
 3.55: TERENCE NUGENT, Tenor—

- "While Harps are Singing" (Strauss).
 3.58: H.M. COLDSTREAM GUARDS BAND
 "Tannhauser March" (Wagner).
 4.2: OLGA LE GRAY, Soprano—
 "Love Boat" (Brown).
 4.5: EVELYN HOWARD-JONES, Pianiste—
 "Fugue No. 12 in F Minor" (Bach).
 4.9: Radio Rhythm.
 4.28: Stock Exchange.
 4.30: Close.

EVENING

- (Relayed to 2NC, Newcastle.)
 5.45: Children's "Good-night" Stories, told by the "HELLO MAN."
 6.0: "BRINGA" will speak of the "Aboriginal Children."
 6.15: The 2FC Hospital Birthday League.
 6.30: The Serial.
 6.45: THE A.B.C. STRING SEPTET.
 7.20: A.B.C. Sporting Service. Special Country Session. Stock Exchange Resume.
 7.45: Late news.
 7.51: Cables. Forecast.
 7.58: Announcements.

NIGHT

- (Relayed to 2NC, Newcastle, between 8 and 11 p.m.)
 8.0: (Relayed to 2NC, Newcastle).
 THE A.B.C. DANCE BAND—
 Dance Music.

2BL, Sydney

8.15 to 2.0: As on Monday.

AFTERNOON

- 2.30: Half an hour with absent celebrities.
 3.0: CHRISTIAN HELLEMANN will speak on "Composers' Ages."
 3.15: Popular numbers.
 3.23: THOE KARIE, Tenor—
 "Come Where My Love Lies Dreaming" (Foster).
 3.26: CEDRIC SHARPE, 'Cellist—
 "Serenade" (Pierne).
 3.29: Musical items.
 3.39: THE BIG FOUR, Vocalists—
 "Waiting by the Silvery Rio Grande" (Mencher).
 "I'm Alone Because I Love You" (Young).
 3.45: Pot Pourri of Popular Melodies.
 3.52: ELIZABETH SCHUMANN, Soprano—
 "Wegenlied" (Mozart).
 3.55: SANDY MACPHERSON, Organist.
 "Starlight" (Brownsmith).
 3.58: Popular music of the day.
 4.5: Favorite songs of yesteryear.
 4.15: MADEMOISELLE CHATAUD will give a French Language Talk. She will speak on Sarah Bernhardt.
 4.30: Favorite melodies of today.
 4.45: Demonstration music.

- 5.40: Weather information.
 5.45: Close.

EVENING

- 6.15: THE A.B.C. STRING SEPTET.
 6.45: Department of Agriculture.
 MR. T. MCCARTHY, Senior Assistant Entomologist, will speak on "The Control of Household Insect Pests."
 7.5: The Country Man's Market Session.
 7.20: THE A.B.C. STRING SEPTET.
 7.40: PROFESSOR MILLS will speak on "Inflation and Deflation."
 7.55: A musical item.
 7.58: What's on the air tonight.

NIGHT

- 8.0: THE A.B.C. ORCHESTRA—
 "La Feria," Spanish ballet (Lacome).
 8.7: ELSIE FINDLAY, Soprano—
 A group by Dvorak.
 (a) "The Rose."
 (b) "A Bird Singing in the Night."
 (c) "Like a Linden Tree Am I."
 8.14: LAURENCE GODFREY SMITH,
 Pianist—
 A Chopin group.
 (a) Study.
 (b) Waltz.
 (c) Impromptu.

- "HOW TO STUDY,"
 DR. R. D. COLLMAN, B.Sc., B.A.
 8.20: A Programme of Special Reproductions—
 Selection, "Land of Smiles" (Lehar)—
 GRAND SYMPHONY ORCHESTRA, Conductor, DR. WEISSMANN.
 "Thy Love is He" (Goldmark).
 "Yet, Ere I to the Vale of Death" (Goldmark).
 MARIA NEMETH, Soprano, with Vienna State Opera Orchestra.
 "Ein Heldenleben," Op. 40 (Richard Strauss). (Symphonic Picture in 10 parts).
 Solo Violin—LEOPOLD PREMYSLAV.
 BERLIN STATE OPERA ORCHESTRA, Conductor, RICHARD STRAUSS.
 "Now Vanquish the Fear," "Siegfried" (Wagner).
 "Where Tristan Now is Going" (Wagner).
 LAURITZ MELCHIOR, Tenor, with LONDON SYMPHONY ORCHESTRA (Conductor, PROFESSOR R. HEGER).
 9.25: UNDER THE AUSPICES OF THE MELBOURNE RECORDED MUSIC SOCIETY.
 RECITAL
 OF THE WORLD'S FINEST RECENT RECORDINGS.
 Selected by
 MR. CHARLES MANBY.
 10.15: British Official Wireless News. Weather information and Herald News. Cable News Service. Police Messages.
 10.30: Close Down.

- Assisting Artists—
 AUSTIN PUNCH, Tenor:
 "At Dawning" (Cadman).
 PHIL SMITH, Comedian:
 "How Ya Goona Keep Your Mind on Dancing" (Brown and Hanley).
 DOROTHY LOUISE, Contralto:
 "Love's Echo" (Newton).
 AUSTIN PUNCH, Tenor:
 "Bird Songs at Eventide" (Coates).
 PHIL SMITH, Comedian:
 "Wottle" (Miller and Hurst).
 DOROTHY LOUISE, Contralto:
 "If I Might Come to You" (Squires).
 AUSTIN PUNCH, Tenor:
 "Boat Song" (Ware).
 PHIL SMITH, Comedian:
 "Riley's Cow Shed" (Damerell).
 DOROTHY LOUISE, Contralto:
 "Trees" (David).
 "I Wonder If Ever the Rose" (Slater).
 10.15: Late Official Weather Forecast.
 AUSTIN PUNCH, Tenor:
 "O Western Wind" (Brahe).
 "Since We Parted" (Allitsen).
 THE A.B.C. DANCE BAND in popular numbers.
 (Completion of relay to 2NC, Newcastle at 11 p.m.)
 11.30: Close.

- 8.26: THE A.B.C. ORCHESTRA—
 Selection, "Frederica" (Lehar).
 8.36: ELSIE FINDLAY, Soprano—
 (a) "Ingrid's Song" (Kjerulff).
 (b) Symmova's Song" (Kjerulff).
 (c) "The Statue Czarskoe-Felo (Cesar Cui).
 8.43: LAURENCE GODFREY SMITH,
 Pianist—
 A group of Brahms.
 (a) "Intermezzo."
 (b) "Rhapsodie."
 8.55: THE A.B.C. ORCHESTRA—
 "Ballet Russe" (Inigini).
 9.0: THE A.B.C. PLAYERS
 in "The Ship,"
 By St. John Ervine.
 Cast.
 Old Mrs. Thurlow Madeline Howell
 John Thurlow George Willoughby
 Janet Mrs. Heath Green
 Jack Arthur Keane
 Hester Phyllis Magrath
 Captain Cornelius Eric Masters
 George Norwood Leo Stark
 Maid.
 10.0: Celebrity recital.
 10.25: Late news.
 -10.28: Late weather forecast.
 10.30: Close.

7.30 to 7.23 as on Monday.

EVENING

7.30: "Soft Fruit Packing—Its Troubles and How to Overcome Them," by MR J. GREGORY, Instructor in Fruit Packing, Department of Agriculture and Stock.

7.40: Sporting Session.

7.55: Musical Interlude.

7.59: Time Signals.

NIGHT

(Relayed to 4RK Rockhampton from 10 p.m.)

8.0: Relayed from 4RK Rockhampton.

9.45: A Reproduced Musical Programme from the Studio.

10.0: Weather information. Cable news. News service. British Official Wireless news.

10.15: A review of today's play in the International match between South Africa and Queensland.

10.30: Dance music.

11.0: Close.

5CL, Adelaide

7.30 to 2.0: As on Monday.

AFTERNOON

3.0: Time Signal.

3.1: "Romances of Famous Lives," conducted by BERYL ALFORD.

3.15: A Pot Pourri Programme of Light Orchestral and Popular Ballad Reproductions.

4.30: Close Down.

EVENING

5.50: Birthday Greetings and Correspondence.

6.0: "THE WATTLE LADY" will Entertain.

6.30: Bright Dinner Music Reproductions.

7.0: News Service. Sporting Service, including Cricket Scores in the Match, South Africa v. Queensland, at Brisbane.

7.15: Stock Exchange Information. Market Reports.

7.20: Musical Interlude.

7.35: "Off the Beaten Track," by MR H. BREWSTER-JONES.

7.45: Latest Austradio Reproductions.

NIGHT

8.0: From the Theatre Australia — Grand Complimentary Concert to JAMES RILEY (the Popular Tenor). A Feature Parade of South Australia's Most Popular Artists. Artists:—ST. CECILIA CHORAL SOCIETY; JEANNE ILLINGWORTH, Soprano; JAMES ANDERSON, Elocutionist; HAROLD DENTON'S MADRIGALS; LINDA WALD, Soprano; MADAME CARYS DAVIES-DENTON, Contralto; HAROLD S. DENTON, Baritone; ORME FARLEY, Tenor; JEAN FINLAY, Pianist; HARRY HUTCHINS, Violinist; ALHARD VON DER BORCH, Baritone; MRS W. J.

O'DONNELL, Pianist; CECILIA NASH, Soprano; MARGARET PIRIE, Contralto; MARIE HORGAN, Pianist; GWEN COLLETT, Contralto; OLIVE LYONS, Accompanist; MARCELLE BERARDI, Soprano; MOSTYN SKINNER, Baritone; TOM KING, Pianist; MURIEL MARKS, Entertainer; THELMA BAULDERSTONE, Elocutionist; AUSSIA REKA, Soprano; SPRUHAN H. KENNEDY, Pianist; PHYLIS EVERETT, Contralto; WALTER HURST, Pianist; VERA VAN RIJ and Pupils; JEAN SINCLAIR, Contralto; MARJORIE WALSH, Soprano; NORMAN MORPHETT, Tenor; GORDON HELE, Baritone; TRIXIE WILSON and Pupils.

10.20: News Service. Meteorological Information. British Official Wireless News.

10.25: Dance and Popular Musical Reproductions.

11.0: Close Down

3DB, Melbourne

MORNING

7.0: Brighter Breakfast Session, conducted by Daybreak Dan.

10.45: Studio Programme.

11.0: Women's Radio Service, conducted by MISS IRIS TURNBULL—"Fashions and Beauty Hints."

12.30: Market Reports.

AFTERNOON

2.15: A. & R. Ingwersen's Session.

2.30: Household Harmonies—

STRAD TRIO—

(a) "Ave Maria" (Schubert).

(b) "Moment Musicale" (Schubert-Kreisler).

PERCY BLUNDELL, Tenor—

"Mary."

CHRISTINE FRAILLON, Cello—

"Gavotte" (Popper).

CECIL PARKES, Violin—

"Dance of the Goblins" (Bazzini).

DOROTHY D'ORN, Soprano (with violin obbligato by Cecil Parkes)—

"Il re Pastore."

STRAD TRIO—

(a) "Menuett" (Paderewski).

(b) "Serenata" (Toselli).

(c) "One Night, Madame" (Brown).

3.0: Strand Furniture Programme.

3.15: Sun Sunshine Hour.

4.15: Strad Trio from Myer Emporium.

EVENING

5.30: Musical Interlude.

6.0: Dinner Music—

ST. LOUIS SYMPHONY ORCHESTRA—

"Fingal's Cave"—Overture.

MELVILLE GIDEON, Baritone—

"Amsterdam."

BENNO MOISEVITCH, Piano—

"Hunting Song."

THE JOLLY CAMPERS—

"Nocturne Java."

JOHN MCCORMACK, Tenor—

"When You and I Were Seventeen."

REGAL NOVELTY ORCHESTRA—

"Hiawatha's Melody of Love."

ESSIE ACKLAND, Contralto—

"My Treasure."

REGINALD GOSS-CUSTARD, Organ—

"Coronation March."

FRANK CRUMIT, Vocal—

"A High Silk Hat and a Walking Cane."

JOHN COCKERILL, Harp—

"At the Fountain."

J. H. SQUIRE CELESTE OCTET—

"Memories of Chopin."

7.0: Smile Away Club Free Theatre Tickets.

7.10: Market Reports.

7.15: Preservene Session.

7.30: First Radio Broadcast of "New Moon" (by special permission of J. C. Williamson Ltd.).

8.0: Vacuum Oil Musical Programme.

8.30: Akron Minstrels.

9.0: Coles and Garrard's "Smiling Eyes."

9.15: Golden Bell.

9.30: Russell's Yeast Programme.

10.30: News.

10.45: Slumber Music—

"Madelon."

"Liebestraume."

"O Star of Eve."

"Songs My Mother Sang."

"Morgen."

3UZ, Melbourne

DAY SESSIONS AS ON MONDAY

8.0-8.15: Life Savers' Merry Session.

8.15-8.30: Anderson's Entertain Old Friends.

8.45-9.15: MR F. J. CAVE, conducting The Shell Company's Entertainment. 9.15-9.30: Thomas Norman's Turf Session. 9.30-9.45: Kewley's Musical Programme. 10.15: Argus News Service. 11.0: Close down.

3KZ, Melbourne

DAY SESSIONS AS ON MONDAY.

8.0 to 8.15: Coles and Garrard entertainment.

8.15 to 8.30: Evening music. 8.30 to 9.0: Maples (South Melbourne) session. 9.0 to 9.30: Evening music. 9.30 to 9.45: Mark Pizzey's session. 10.0: Station announcements. 10.5: Evening music. 11.30: Close down.

7ZL, Hobart

DAY SESSIONS AS ON MONDAY

8.0: G.P.O. Clock Chimes the Hour. Unit 1.—The Artists of the Music Lovers' Hour in a Programme of American Music. Artists: MRS B. E. SAUNDERS, Piano; MADAME VERA TASMA, Soprano; HAZEL GUEST, Violin; BLANCHE SINCLAIR, Mezzo. MRS B. E. SAUNDERS, "American Aubade" (Mowrey), "Wind on the Prairie" (Morel), "Prelude Arabesque" (Rodgers), "Scherzo" (Cadman); MADAME VERA TASMA, "The Star" (James Rodgers), "Life" (Pearl Curran), "Rain" (Pearl Curran), "Change of Mind" (Pearl Curran), "Will o' the Wisp" (Spross), "Ah, Love but a Day" (Beach), "The Grey Blue Dove" (Sauer), "A Birthday" (Woodman); HAZEL GUEST, "Cradle Song" (Ern), "Contemplation" (Peery), "Berceuse" (Donath), "Gipsy Serenade" (Banks), "Negro Spirituals," "Nobody Knows" (Burlleigh); BLANCHE SINCLAIR, "The Last Song" (James Rodgers), "The Love Note" (James Rodgers), "A Spirit Flower" (Tipton), "The Boat Song" (Ware), "Banjo Song" (Homer), "O That We Two Were Maying" (Nevin). 9.0: Unit 2.—"The World by the Way," by the "Man With a Lantern." 9.15: Unit 3.—MILITARY BAND, conducted by T. W. HOPKINS—Overture, "Light Cavalry" (Suppe), "Liebestraum" (Czibulka). A Recital of Verse, by BERYL BRETT—"He Fell Among Thieves," "Up Hill," "Ambition," "I Have Lived." BAND—"Reminiscences of the South" (Solomon), "La Zarine" (Ganne), "Memories of Scotland," March, "Crusaders"

(Finck). 10.0: G.P.O. Clock Chimes the Hour. 10.1: News, Meteorological Information. Resume of Tomorrow's Programme. British Official Wireless Rebroadcast from 3AR, Melbourne. 10.15: Meditation Session.

2GB, Sydney

DAY SESSIONS AS ON MONDAY.

8.0: 2GB INSTRUMENTAL QUARTET, leader, HORACE KEATS—"Tannhauser Selection" (Wagner). 8.12: Tenor solo. 8.17: HERBERT WARDLEY, violinist—"Traumer" (Wagner). 8.22: Soprano solo. 8.27: 2GB QUARTET—"Three Dream Dances" (Coleridge Taylor). 8.37: A little humor. 8.42: HORACE KEATS, pianist—"Chant d'Amour" (Paderewski); "Danse Poetique" (Dutton), 8.50 Tenor solo. 8.55: Vocal quartet. 9.0: Weather Report. 9.3: 2GB TRIO—"O Star of Eve" (Wagner); "Humoreske" (Dvorak).

9.11: Soprano solo. 9.16: CEDRIC ASHTON, cellist—"Tarantelle" (Popper). 9.21: Vocal quartet. 9.26: Flute solo. 9.31: 2GB QUARTET—"While Hearts are Singing" (Strauss); "One More Hour of Love" (Strauss). 9.39: Novelty orchestra. 9.44: Vocal duet. 9.50: Band selection. 10.0: Instrumental music. 10.45: Slumber Music. 11.15: Close down.

2KY, Sydney

DAY SESSIONS AS ON MONDAY

8.0: Clock chimes. 8.1: From the Auburn Town Hall. F. J. Palmer's Community Singing Concert, with SYD. HAYNES leading. UNCLE BERT and GEORGE and assisting artists. 10.30: Closing announcements.

2UW, Sydney

DAY SESSIONS AS ON MONDAY.

8.0: Paling's Sponsored Session of Music—Piano and Orchestra, "Nights in the Gardens of Spain" (de Falla). 8.24: Vocal, Spanish songs (de Falla). 8.30: Orch., Spanish dances (Granados). 8.46: Spanish songs (de Falla). 8.55: Orch., "Granada" (Albeniz). 9.0: Talk on Foreign Affairs by MR. J. M. PRENTICE. 9.10: Music. 9.15: Shell Interlude by Saxon. 9.45: Music.

5KA, Adelaide

DAY SESSIONS AS ON MONDAY

8.0: Topical chorus. 8.10: Musical pot pourri. 8.40: Broadcast of talkie production. 10.30: Close down.

5AD, Adelaide

DAY SESSIONS AS ON MONDAY

8.0: First News Bulletin. 8.6: Concert for The News. 8.30: Recital. 9.0: News, Weather, Wheat Market, Stock Exchange. 9.15: Recital. 9.30: Song Medley. 9.45: Orchestral Interlude. 10.0: News. 10.3: Listeners' Request Numbers. 10.59: News.

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- 1 .20 ohm fil. resistance, C.T., 1 500 ohms "C" Bias Resistor, 1 RF Choke, 1 Voltage Divider, Two 4 mf Condensers, Three .5 Condensers, 2 Shield Cans, 3 x 4in., 1 30 Henry Choke, 1 plug-in cable, 1 Chassis (green), 1 UY224 Valve, 2 UY Sub Panel, Sockets, 1 Aluminium Panel 16 x 7, coil Luftux Wire, 1 box Nuts and Bolts.

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55/ Philips 4005 Magnetic Pick- ups	25/
5/ Silverknight 85/MA RF Chokes	2/9
9/6 Polymet 8mf. Electrolytic Condensers	7/
6d Nickel Plated Alligator Clips	4d
3/6 Ayanbee "A" and "E" Bat- tery Hydrometers	2/9
28/6 TMC Headphones, 4000 ohms. Made by British General Electric	18/11
17/6 Thorens No. 12 Gramo Motor with 12 inch turntable	12/6
Special Pressed Steel Chassis for 3 Valve Electric or 4 V Battery Sets already drilled	3/6
Banana Plugs and Sockets	3d ea.
15/ Morse Keys, specially re- duced	8/6
14/6 Bradleymeter 400 ohm. Po- tentiometer	3/6
Phone cords, 6ft. long	1/6
2/6 Spring aerials (ideal for in- door and Portable use)	1/6
2/ Phosphor Bronze aerial, 50ft. coils	1/9
9d Special small screw drivers for Radio use	6d
Glazite in 10ft. coils	2/
Ediswan 2V West B Batt Units	1/6
1/9 AWA UX sub panel sockets	9d

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Just opened up. Handsome Black Bake- lite 4-inch Dial with finest friction drive.



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Standard Price, 23/6
Homcrafts' Prices from 7/11
Guaranteed Brand New

Type.	Purpose.	Equiv. Philips	Standard Price.	Homcrafts' Price.
MH4	General Purpose	E438	23/6	7/11
		E435		
MHL4	Audio & Det.	E424	23/6	7/11
		E409		
U9	Full Wave Rectifier	506		
		2506	25/-	7/6
ML4	Power	E409	23/6	7/11
MS4	Screen Grid	E442	29/6	11/3
PX4	4V Super Power	D404	25/	10/6
P425	Power	B403	16/6	6/11
PT425	UY Penthode	B443	27/6	12/6

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MARCONI 6/11
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Type.	Purpose.	Equiv. Philips	Standard Price.	Homcrafts' Price.
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H410	Det. & R.F.	A415	14/	6/11
L410	General Purpose	A409	14/	6/11
P410	Power	B406	14/	6/11
H610	Det. & R.F.	A615	14/	6/11
HL610	General Purpose	A609	14/	6/11
P610	Power	B605	14/	6/11
S410	Screen Grid	A442	27/6	9/11
P625A	Super Power	C603	16/6	7/6
S610	Screen Grid	A642	27/6	9/6
S625	Screen Grid	A642	27/6	7/6

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Crystal Set Competition

Good prizes and lots of fun.

Entries close December 14th.

Set Builders See for Yourselves

Actual built-up models of new Constructional 4- Valve Set featured in this issue Listener In, page 46.

At both shops, 63 and 211 Swanston St.

WEDNESDAY

November 25
3LO, Melbourne

7.0 to 1.15 as on Monday.

AFTERNOON

- 1.30: Transmission from the ROTARY CLUB LUNCHEON.
- 1.58: Description by ERIC WELCH of Hurdle Race—two miles—BENDIGO CUP RACE MEETING.
- 2.5: Musical Interlude.
- 2.10: MAINLY FOR WOMEN THE A.B.C. WOMEN'S ASSOCIATION—Conducted by HATTIE KIGHT.
- 2.25: Musical Interlude.
- 2.38: Description of Epsom Plate—six furlongs.
- 2.45: Musical Interlude.
- 3.0: Time Signal.

- 3.0: THE RADIO PLAYERS—“Earl Carrol's Vanities.”
- 3.7: JESSIE SHMITH, Contralto—“When the Night with Stilly Silence.” “The Market” (Carew).
- 3.13: Description of Bendigo Cup—1 mile, 3 furlongs.
- 3.20: THE RADIO PLAYERS—Fantasie of Works by Bizet.
- 3.26: SYD. EXTON, Tenor—“A Spirit Flower” (Campbell Tipton). “Pale Moon” (Logan).
- 3.32: MONA THOMAS, Soprette—“Girl of a Million Dreams.” “I Wanna Sing About You.”
- 3.38: THE RADIO PLAYERS—“Scenes Pittoresque” (Massenet).

- 3.43: Description of Three-year-old Handicap—6 furlongs.
- 3.50: JESSIE SHMITH, Contralto—“The Auld Nest” (Longstaffe). “Four Ducks on a Pond” (Needham).
- 3.56: C. RICHARD CHUGG, Flute—“Bolero” (Pessard).
- 4.1: THE RADIO PLAYERS—Waltz: “Waltzing Around with Rosie” (Wayne). Foxtrot: “Mother Indiana” (Skinner).
- 4.8: SYD. EXTON, Tenor—“My Queen” (Blumentha). “Inter Nos” (MacFadyen).
- 4.13: Description of President's Welter—one mile.
- 4.20: THE RADIO PLAYERS—Selection from “Chu Chin Chow” (Norton).
- 4.30: MONA THOMAS, Soubrette—“Pardon Me, Pretty Baby.” Selected.
- 4.36: Two Request Numbers.
- 4.43: Description of Novice Handicap—6 furlongs.
- 4.50: Close down.

EVENING

- 5.45: “LITTLE MISS KOOKABURRA” will commence the Children's Hour with a happy laugh for all and then tell “How Mr Gander made a Goose of Himself.” This will be followed by the Children's News Bulletin.
- 6.0: The Cuckoo Clock. “MONTE THE DAME” meanders into the Children's Corner, bringing heaps of merry jokes and stories. “MANDOLIN MADOLINE” will play a tune or two. “LITTLE MISS KOOKABURRA” will now tell the second instalment of the exciting Yorkshire Moors story.
- 6.20: Birthday Greetings by “LITTLE MISS KOOKABURRA.”
- 6.30: Musical Interlude.
- 6.35: FRENCH. MADAME SOWARD.
- 6.50: British Official Wireless News.
- 6.58: What's on the Air Tonight.
- 7.0: Time Signal.
- 7.1: COUNTRYMAN'S SESSION.
- 7.25: UNIVERSITY EXTENSION BOARD LECTURES. “The Use of Metals by Early Man.” PROFESSOR N. GREENWOOD.
- 7.40: News Service. Cable News Service. Police Messages.
- 7.45: OUR RADIO SERVICE TO LISTENERS. MR H. K. LOVE.
- 8.0: Time Signal.

NIGHT

- 8.0: See panel.
- 10.30: Official Weather data. Police messages. Items of interest.
- 10.33: ART CHAPMAN AND HIS REX ORCHESTRA—Popular Dance Numbers.
- 11.30: Close down.

8.0 ——— Transmission from Melbourne Town Hall ——— 3LO

ORCHESTRAL CONCERT

Relaying to
2FC, Sydney.

By the
Victorian
Professional
Orchestra.



Conducted by
HENRI PENN.

The Programme Will Include:

- ORCHESTRA: Overture, “Carnival Romaine” (Berlioz).
- ELVIE BERLYN, Winner of the South Street Pianoforte Championship, 1931.
- First Movement Beethoven Concerto No. 4 in G. With Orchestra.
- ORCHESTRA: Overture, “The Land of the Mountain and the Flood” (Hamish McCunn).

3AR, Melbourne

8.15 to 11.0 as on Monday.

AFTERNOON

- 12.0: G.P.O. Chimes.
- 12.1: “Austradio” Musical Reproduction.
- 12.15: THE WHITE ARAB: “The Caravans of the Dead” CAPTAIN DONALD MACLEAN.
- 12.30: “Austradio” Musical Reproduction.
- 2.0: G.P.O. Chimes.
- The Artistic Reproduction of Absent Artists.
- 2.1: GRAND OPERA, “Tannhauser” Act 3 (Wagner). Sung in German at Beyreuth Festival by Principals, Chorus and Orchestra.
- 2.37: ESSIE ACKLAND, Contralto.
- 2.41: JOHANN STRAUSS and SYMPHONY ORCHESTRA.

- 2.49: LOTTE LEHMANN, KARIN BRANZELL, RICHARD TAUBER, etc. CHORUS and ORCHESTRA. STATE OPERA HOUSE, Berlin.
- 2.57: TOSSY SPIVAKOWSKY, Violin. BROADCAST TO SCHOOLS.
- 3.0: FRENCH: Pronunciation Practice—“Reading and Explanation of Poem—“Le Savetier et le Financier” MONS. TH. ROUEL. Mr. W. H. FREDERICK.
- 3.30: Musical Interlude.
- 3.45: NOTABLE AUSTRALIANS: “Francis Ormond, the Founder of The Working Men's College.” MR. J. HOWLETT ROSS.
- 4.0: Musical interlude.
- 4.15: “Austradio” musical reproduction.

- 5.0: G.P.O. Chimes.
- 5.1: “Austradio” musical reproduction.
- 5.30: Weather data; shipping information.
- 5.45: Close down.

EVENING

- 6.15: DINNER MUSIC—Supplied by th: A.B.C. STRING ENSEMBLE.
- 7.30: What's on the Air Tonight.
- 7.32: Sporting results.
- 7.50: Latest musical releases.
- 8.0: G.P.O. Chimes.

NIGHT

- 8.0: ARCHITECTURE AND TOWN PLANNING — HUMAN HABITATIONS—No. 5—“Homes and Gardens in Australia” Mr. J. S. GAWLER.

SISTERS OF MERCY CENTENARY

BROADCAST BY 3DB

The Sisters of Mercy Centenary Celebrations will be broadcast by 3DB from the Auditorium on Saturday evening, November 21, from 8 to 10.30.

8.20: Thirty Minutes Light Classics.

by

THE JEDAL ENSEMBLE—

Miss ALVA HATTENBACH, violin.

Miss EDNA HATTENBACH, 'cello.

Miss LILIAN FINSTER, piano,

Mr. ALAN EDDY, basso.

Trios: (a) "Romance sans Paroles" (D. van Goens).

(b) "Bolero" (Moszkowski).

Song: "Had a Horse" (Korbay).

'Cello: "Elegie" (Massenet).

Piano: "Shadow dance" (MacDowell).

Violin: "Caprice Viennois" (Kreisler).

Song: "Now Sleeps the Crimson Petal" (Quilzer).

(With violin obligato).

Trios: (a) "Cradle Song" (Schubert),

(b) "Mazurka Russe" (Glinka).

A PROGRAMME OF POPULAR MUSIC.

8.50: ART. CHAPMAN and his REX ORCHESTRA—

9.0: FRANCES LEA

In Popular Numbers.

9.7: ART CHAPMAN AND HIS REX

ORCHESTRA—

Latest Dance Numbers.

Solo: Selected. A. B. WALTERS, pianist.

9.11: SYD. HOLLISTER and "THE GIRL

FRIEND"

in Cleverly Concerted Comedy Concoctions.

9.20: ART. CHAPMAN AND HIS REX

ORCHESTRA—

9.30: THE MASTER FOUR QUARTETTE

In "Harmony Up-to-Date."

9.36: ART. CHAPMAN AND HIS REX

ORCHESTRA—

Latest Dance Numbers.

9.46: FRANCES LEA

In Popular Numbers.

9.53: ART. CHAPMAN AND HIS REX

ORCHESTRA—

Latest Dance Numbers.

10.0: SYD. HOLLISTER and THE GIRL

FRIEND again in

Cleverly Concerted Comedy Concoctions.

10.8: ART. CHAPMAN AND HIS REX

ORCHESTRA—

Latest Dance Numbers.

10.15: British Official Wireless News. Weather information and Herald news. Cable

News Service. Police Messages.

10.30: Close down.

2FC, Sydney

7.0 to 2.25 as on Monday

AFTERNOON

(Relayed to 2NC, Newcastle.)

2.30: Announcements.

2.32: FLORENCE WADDELL, Contralto:

"The Silver Ring" (Chaminade).

2.35: GWEN ROBSON, Pianiste:

"Concert Study" (Liszt).

"Four Preludes" (Chopin).

2.45: ROTORUA MAORI CHOIR:

"Haeremai te arawa."

2.48: THE NEW SYMPHONY ORCHESTRA:

"Le Cid, Ballet Music" (Massenet).

2.56: MYRA LEARD, Elocutioniste:

"Taronga Jamboree" (Courtney).

"A Black Story" (Anon).

3.3: LAWRENCE SALERNO, Baritone:

"La Rosita" (Dupont).

3.6: EFRAM ZIMBALIST, Violinist:

"Tallahassee" (Scott).

3.9: Music of the Moment.

3.18: FLORENCE WADDELL, Contralto:

"The Fairy Tales of Ireland" (Coates).

"My Love's an Arbutus" (Stanford).

3.25: ARTHUR MEALE, Organist:

"Cavalleria Rusticana, Intermezzo" (Mas-

cagni).

"Tales of Hoffmann, Barcarolle" (Offen-

bach).

3.31: GRAHAM KENT will speak on

"Bridge."

3.46: GWEN ROBSON, Pianiste:

"Humoresque" (York Bowen).

"The Submerged Cathedral" (Debussy).

"Tango" (Albaniz).

3.56: MYRA LEARD, Elocutioniste:

"Wheels" (Weeks).

"Trip to Morrow."

4.3: FLORENCE WADDELL, Contralto:

"We Sway Along" (Mallinson).

4.6: EDITH LORAND'S ORCHESTRA:

"La Serenade" (Metra).

4.10: THE BIG FOUR, Vocalists:

"The Little Things in Life" (Berlin).

4.13: Radio Song and Story.

4.28: Stock Exchange.

4.30: Close.

EVENING

(Relayed to 2NC, Newcastle.)

5.45: Children's "Good-night" Stories told

by the "HELLO MAN."

6.0: UNCLE TED and "SANDY" will en-

tertain.

6.15: The 2FC Hospital Birthday League.

6.30: The Serial.

6.45: THE A.B.C. ORCHESTRA.

7.20: A.B.C. Sporting Service. Special

Country Session. Stock Exchange re-

sume.

7.45: Late news.

7.51: Cables.

7.58: Announcements.

(Completion of relay to 2NC, New-

castle.)

NIGHT

8.0: Relayed from 3LO Melbourne from

the Melbourne Town Hall—

AN ORCHESTRAL CONCERT

by the

VICTORIAN PROFESSIONAL**ORCHESTRA.**

10.30: Relayed to 2NC Newcastle—

Late Official Weather Forecast.

10.32: THE A.B.C. ORCHESTRA will

play meditation music.

(Competition of relay to 2NC New-

castle at 11 p.m.).

11.30: Close.

2BL, Sydney

8.15 to 2.0 as on Monday.

AFTERNOON

2.30: Selections from light opera.

FREDDY KAUFMANN and his Orches-

tra.

The Gypsy Baron Selection (Strauss).

2.38: A group of ballads.

2.45: The Women's Hour, conducted by the

A.B.C. WOMEN'S ASSOCIATION.

"Hints to Knitters," by Mrs. EUGENIA

BAILEY.

A musical item.

"Suggestions for Christmas Gifts," by

Miss MARGOT HEALS.

Musical interlude.

Talk by a member of the Y.W.C.A.

Moments musical.

"Is Home a Woman's Place?" by Miss

GWEN VARLEY.

3.45: PETER DAWSON, baritone—

The Blind Ploughman (Clarke).

3.48: MILITARY BAND.

Martial Moments (arr. Winter).

3.52: DON COSSACKS CHOIR—

The Volga Song (arr. Jaroff)

3.56: SERGEI RACHMANINOFF, pianist—

Polka de W.R. (Rachmaninoff).

4.0: Book reviews.

4.15: JASSICA DRAGONETTE, soprano—

Moonbeams (Herbert).

4.18: ERICA MORINI, violinist—

Arioso (Bach, arr. Franko).

4.21: SYDNEY GUSTARD, organist—

Where My Caravan has Rested (Lohr).

4.24: Melodies Grave and Gay.

4.45: Demonstration music.

5.40: Weather information.

5.45: Close.

EVENING

6.15: A.B.C. ORCHESTRA.

6.45: Dr. J. C. C. BRADFIELD will tell of

the "Work Preparatory to Construction."

7.5: The country man's market session.

7.20: THE A.B.C. ORCHESTRA.

7.45: Rev. GEO. COWIE tells you what to

do with it.

7.58: What's on the air tonight?

NIGHT

8.0: THE SAVOYANS in a Symphonic pre-

sentation—

(a) A group of Irish folk songs (Lenze)

(b) Moorish dance (Sileu).

8.7: ROGER JONES, baritone, and ANNE

LUCIANO, soprano—

(a) Our Little Home (Eric Coates).

(b) I Love the Moon (Rubens).

8.14: ERIC MASTERS and JOHN STUART—

The Experiences of Eezy and Breezy.

Hunting (Jack Hylton)

8.24: THE SAVOYANS in a Symphonic

Presentation—

(a) Just a Little Closer (Meyer).

(b) Selection from Raymond Overture

(Thomas).

8.31: JACK LUMSDAINE, the Radio Rascal

(a) Sugar (Meyer).

(b) I Wouldn't Change You for the World

(Jones).

8.41: R. M. SMEDLEY, Mandolinist—

(a) Karoona (Saunders).

(b) I Close My Eyes and Dream (Hajos).

8.48: ANNE LUCIANO, soprano—

(a) I Think of You, My Sweet (Haydn

Wood).

(b) The Wood Pigeon (Liza Lehmann).

(c) Sunflakes (Montague Phillips).

8.55: PETER PIPER at the Piano—

(a) Shades of Blue (Claypool).

(b) Are You Making a Fool of Me? (Wen-

brow).

9.2: ERIC MASTERS and JOHN STUART—

The Experiences of Eezy and Breezy.

A Matrimonial Experience, introducing

I'm Afraid of Love (Darewski).

9.13: LES HARRIS, saxophonist—

(a) A Japanese Sunset (Deppen).

(b) Synco Sax (Hazlett).

9.20: JACK LUMSDAINE, the Radio Rascal

(a) That's My Desire (Sterling).

(b) I Wonder How it Feels? (Woods).

9.30: "Sidelights on Old Sydney."

9.45: ROGER JONES, baritone, and ANNE

LUCIANO, soprano—

(a) A Song Remembered (Eric Coates).

(b) The Hills of Beyond (Howard Fisher).

9.52: THE SAVOYANS, in a Symphonic ar-

rangement of—

(a) You Will Come Back to Me (Weiss).

(b) Selection from William Tell (Rossini).

10.0: R. M. SMEDLEY, mandolinist—

(a) Dear Hands (Saunders).

(b) Kiss Me Again (Victor Herbert).

10.7: THE SAVOYANS in popular numbers.

10.25: Late news.

10.28: Late weather forecast.

10.30: Close.

4QG, Brisbane

7.30 To 2.0 As On Monday

AFTERNOON

Relayed to 4RK, Rockhampton

3.0: A Session of Reproduced Request

Items.

4.30: Close.

EVENING

Relayed to 4RK, Rockhampton, from 6.15

6.0: Musical Interlude.

6.5: Listeners' Shipping Service. Express

Train Information. Mail Notices. Stock

Exchange Notes.

6.15: For the Children.

6.45: Countryman's Service Section.

7.0: Dinner Music.

7.25: News Service.

7.30: "Uncommon Commonplaces in the

U.S.A." by

MR. R. SANDALL.

7.40: A.B.C. Sporting Notes.

7.50: Musical Interlude.

NIGHT

Relayed to 3RK, Rockhampton

(Continued overleaf)

4QG, WEDNESDAY—(Continued)

8.0: MRS. MATTHEWS' PLECTRAL CLUB
"Sahara" (Crosby).
LEO GRUMP ACCOMPANIED BY
BANJO BAND—
Popular Numbers.
CLARE MATTHEWS (violiniste)—
"Irish Air" from "County Derry" (arr.
Fisher).
CAJAZZA PLECTRAL CLUB—
"Youth Triumphant" (Gibb).

VINCE AXELBY—
With His Guitar.
THE BANJO BAND—
"The Mandarin" (Morris).
THE CADENZA PLECTRAL CLUB—
"Sullivan's Operatic Gems"
ANDREW EAGER AND DON STANTON
Banjo Duet: "Caprice of the Butterflies"
(Bickford).
VINCE AXELBY—
Songs with Guitar.
THE CADENZA PLECTRAL CLUB—
"Remembrance" (Telma).

LEO GRUMP AND THE BANJO BAND
Popular Numbers.
CLARE MATTHEWS (violiniste)—
"Doll's Dance" (Poldini).
VINCE AXELBY—
Popular Interlude.
MRS. MATTHEWS' CADENZA PLEC-
TRAL CLUB AND BANJO BAND—
"The Black Prince" (Weidt).
10.0: Weather Information. Cable News.
News Service. British Official Wireless
News.
10.15: Dance Music.

5CL, Adelaide

7.30 to 2.0: As on Monday.

AFTERNOON

3.0: Time Signal.
3.1: Bendigo Race Results.
3.2: MRS. G. CAMERON (One of the Vice-
Presidents of the Housewives' Association)
will speak.
3.15: Light Classics and Musical Comedy
Reproductions.
4.15: THE A.B.C. BRIDGE CLUB, conducted
by "NO TRUMP."
4.29: Bendigo Race Results.
4.30: Close Down.

EVENING

5.50: Bendigo Race Results.

3DB, Melbourne

MORNING

7: BRIGHTER BREAKFAST SESSION, con-
ducted by DAYBREAK DAN.
10.45: Studio programme.
11: Women's Radio Service, conducted by
MARGARET MANNING. — "Homecrafts
and Interior Decoration."
12.30: Market Reports.

AFTERNOON

2.15: A. & R. Ingwersen's Session.
2.30: Household Harmonies—
STRAD TRIO—
(a) "Serenade" (Schubert).
(b) "Guitarre" (Moskowski).
DOROTHY D'ORN, Soprano—
(a) "Overtones" (Rasbach).
(b) "The Cuckoo Clock."
MAY BRODERICK, Piano—
"Capriccio" (Mendelssohn).
DOROTHY D'ORN and PERCY BLUN-
DELL—
"Night in Venice."
CECIL PARKES, Violin—
"La Capriceuse" (Elgar).
PERCY BLUNDELL, Tenor (with 'cello
obligato by Christine Fraillon).
"At Dawning" (Cadman).
STRAD TRIO—
(a) "Rondino" (Beethoven-Kreisler).
(b) "Heavenly Night."
3.15: Sun Sunshine Hour.
4.45: Evensong from St. Paul's Cathedral.

EVENING

5.30: Musical Interlude.
6: Dinner Music—
BARNABAS VON GECZY and ORCHES-
TRA—
"Student Prince" Fantasia.
ALFRED O'SHEA, Tenor—
"Ben Bolt."
GRAND SYMPHONY ORCHESTRA—
"Japanese Lantern Dance."
FRITZ KREISLER, Violin—
"Midnight Bells."
META SEINEIMEYER, Soprano—
"Entrance of Butterfly" ("Madame Butter-
fly")
NEW QUEEN'S HALL ORCHESTRA—
"Chant sans Paroles."
FRASER GANGE, Baritone—
"Aghal by the Sea."
JACK HYLTON and HIS ORCHESTRA—
"My Brother makes the Noises for the
Talkies."
GRESHAM SINGERS—
"Sweet Kitty Clover."
FELIX DYCK, Piano—
"Bohemian Dance."
LA VITTORIA ORCHESTRA—
"Wedding of the Winds."
7: Smile Away Club Free Theatre Tickets.
7.15: Market reports.
7.30: Pioneer Travelogue.
7.45: Murray's Chocolate Session.
CHARLES ANCLIFFE and HIS ORCHES-
TRA—
"Ancliffe Waltzes Selection"
DORA LABBETTE, Soprano—
"Comin' Thro' the Rye."
DAJOS BELA ORCHESTRA—
"Be Embraced, Ye Millions."

5.55: Birthday Greetings and Correspond-
ence.
"MISS WIRELESS" will entertain.

6.30: Bright Dinner Music Reproductions.
7.0: "News" Session. Sporting service, in-
cluding Bendigo Race Results. Stock Ex-
change information. Railway informa-
tion. Items of special interest.
7.15: Musical Reproductions.
7.25: The 5CL Bluebird Girls' Club, con-
ducted by "THE BIRD LADY."
7.45: Boy Scouts' Corner.

NIGHT

8.0: Vaudeville and Review from The Joy
Ark. 1. A Nautical Sketch. "In Peace-
ful Waters," by HUGH HUXHAM and HIS

PETER DAWSON, Bass Baritone—
"Route Marchin"
GYPSY ORCHESTRA—
"Lolita."
FRED. WILLIAMSON, Tenor—
"Kiss Me Again."
PAVILION LESCAUT ORCHESTRA—
"The Dancing Tailor."
8.30: A. W. Allen's Session.
8.45: Shur-on Presents "Your Eyes."
9: Maples' Musical Programme—
WILLIAM MENGBERG and HIS OR-
CHESTRA—
Introduction to Act 1 of "Lohengrin."
ELSA STRALIA, Soprano—
Waltz Song from "Tom Jones."
HERMAN FINCK and HIS ORCHESTRA—
"Gaiety Echoes."
ALEXANDER KIPNIS, Bass—
"The Phantom Double."
J. H. SQUIRE, Cello—
"Berceuse de Jocelyn."
DEBROY SOMERS' BAND—
"Community Medley."
10.30: News.
10.45: Slumber Music

3UZ, Melbourne

DAY SESSIONS AS ON MONDAY
8.0-8.30: Tye's Home Lovers' Session.
8.30-8.45: A. W. Allen's "Florison" Session.
8.45-9.0: Coles and Garrard's Session. 9.0-
9.15: Preservene entertainers. 10.15: Argus
news service. 11.0: Close down.

3KZ, Melbourne

DAY SESSIONS AS ON MONDAY.
8.0 to 8.30: Stokoe Motors session. 8.30 to
9.0: Evening music. 9.0 to 9.30: Educa-
tional talk. 10.0: Station announcements.
10.5: Dance programme. 11.30: Close down.

7ZL, Hobart

DAY SESSIONS AS ON MONDAY
8.0: G.P.O. Clock chimes the hour. A
concert programme arranged by CORRICK
ORCHESTRA, transmitted from Launceston.
Overture, "Prometheus" (arr. Seredy), COR-
RICK ORCHESTRA; "Le Cygne" (Saint-
Saens), MADAME ELSE CORRICK, Violin;
soli, "Down the Long Avenue" (Molloy),
"I Be Hopin' You Remember Me" (Clarke),
MABEL WRIGHT, Mezzo; flute solo, "Seren-
ade" (Titl), with Orchestral accompani-
ment; soloists, N. PIPER, Soli, "Danny Boy"
(Weatherly), "Arrow and the Song" (Balfe),
J. MYLES-TAYLOR, bass; "Ballet Egyp-
tien" (Lugini), CORRICK ORCHESTRA;
"Valley of Laughter," "I've Been Roaming"
(Horne), MADAME ALICE CORRICK; Suite
No. 1, "Valse Gracieuse" (German), COR-
RICK ORCHESTRA. "Pipe and Slippers,"
by the "MAGPIE" Overture, "Raymond"
(Thomas), CORRICK ORCHESTRA; cornet
solo, "The Rosary" (Nevin), B. HAR-
GRAVES; soli, "None but an Aching Heart,"
"Meadowsweet" (Brahe), Mrs McARTHUR,
contralto; instrumental, clarinet solo with
Orchestra Accompaniment, "Fantasia on
Favorite Scotch Melodies," LEONARD COR-
RICK; part songs, "Pale Moon" (Logan),
"Lilacs" (Cadman), MADAME ALICE COR-
RICK, Mrs McARTHUR, MISSES JESSIE
BROOMBY, M. WRIGHT, P. HAMILTON
and H. SAYER; selection, "Nell Gwyn

SERENADERS. 2. TED SMITHERS'
BAND—Synco-pates. 3. The Plantation
Singers in Popular Melodies. 4. Lila
Kempster—Whispers some popular songs.
5. OSSIE SUMMERTON—In High Flights
with a Cornet. 6. THE HUXHAM
SERENADERS in Favorite Old Melodies.
7. "The Joy Ark Wireless." Set operated
by NOAH HUXHAM tunes in London,
Paris, Berlin, Rome, Madrid, Cairo,
Newark, San Francisco and Tahiti.
(Statics Permitting). 8. TED SMITHERS'
JOY ARK BAND. and THE ARKADIANS
in Popular Pops.
10.15: News Session.
10.25: Modern Dance Music.
11.0: Close down.

Dances (German), CORRICK ORCHES-
TRA; soli, "Thoughts Have Wings" (Leh-
mann), "Grey Days" (Johnson), JESSIE
BROOMBY; march, Characteristic Shikert,
"Old Colonel."

2GB, Sydney

DAY SESSIONS AS ON MONDAY.
8.0: Orchestra, Overture, "Pique Dame."
8.10: CECIL BROWN, baritone—"Was It a
Dream" (Spyer); "For You a Rose for Me a
Memory" (Nichols). 8.20: Violin solo:
"Schon Rosmarin." 8.25: Piano solo by
CLIVE HENRY—"The Jugglers." 8.30: Mme.
BER, soprano—"Retrospective Memories"
(Charito); "Will My Friend Come Back to
Me" (Cherniavski). 8.40: Orchestra—"Dark
Town Dandies." 8.45: CECIL BROWN, bar-
itone—"Until" (Teschemacher). 8.50: Piano
solo by CLIVE HENRY—"Just An Ivy Cov-
ered Shack" (Rupp). 8.55: CECIL BROWN,
baritone—"The Silver in My Mother's Hair"
(Courtney). 9.0: Weather report. 9.3: Mme.
BER, Soprano—"The Russian Sarafan"
(Cherniavski). "I Wonder if Love is a
Dream" (Forster). 9.14: Orchestra—
"Warbling at Eve." 9.18: Piano solo by
CLIVE HENRY—"Rustle of Spring" (Sind-
ing). 9.23: Orchestra—"Electric Girl."
"Stephen Foster Melodies." 9.30: Violin
solo. 9.35: Vocal Quartet. 9.40: Cello
solo. 9.45: Instrumental quartet. 9.50:
Banjo solo. 9.55: Band selection. 10.0: In-
strumental music. 10.45: Slumber music.

2KY, Sydney

DAY SESSIONS AS ON MONDAY.
8.0: Clock chimes. 8.1: From Grand
Opera House, by kind permission of Mr
Geo. Marlow, Celebrity Vaudeville. 10.0:
Closing announcements.

2UW, Sydney

DAY SESSIONS AS ON MONDAY
8.0: Recital by RICHARD TAUBER:
Finale Act 1, The Gipsy Baron (Strauss).
8.4: The Lotus Flower (Schumann). 8.7:
Impatience. 8.10: Spring (Kuhe). 8.13:
Finale Act 2, The Gipsy Baron (Strauss).
8.17: Had you but known (Denza). 8.21:
The Wanderer (Schubert). 8.25: To the
Sea (Schubert). 8.29: Finale Act 1, The
Bat (Strauss). 8.32: Hand in hand (Bor-
ganoff). 8.37: Song of the Volga Boatmen
(Russian). 8.40: Finale Act 2, The Bat
(Strauss). 8.45: Shuron programme—"Your
Eyes." Song, Eileen Allanah (Thomas).
8.49: Cornet—O Star of Eve (Wagner).
8.52: Quartet, Funiculi Funicula (Denza).
8.55: Waltz, Mexican Sky (Ramos). 9.0:
Talk by Mr. J. M. PRENTICE on Foreign
Affairs. 9.10: Music. 9.15: Fox Talkie-
tones from their Miniature Theatre. 9.45:
Music. 10.30: Close down.

5AD, Adelaide

DAY SESSIONS AS ON MONDAY
8.0: News Bulletin. 8.6: Concert. 9.0:
News, Weather, Stock Exchange, Wheat
Market, Fat Stock Market. 9.15: Concert.
10.0: News. 10.3: Listeners' Request Num-
bers. 10.59: News. 11.0: Close Down.

THURSDAY

November 26
3LO, Melbourne

7.0 to 1.30 as on Tuesday.

AFTERNOON

1.58: Description by ERIC WELCH of Trial Handicap, 6½ furlongs, BENDIGO CUP RACE MEETING.

2.5: Musical Interlude.

2.38: Description of Encourage Mile.

2.45: Musical Interlude.

3.0: AUSTRAL BRASS BAND—

Overture: "Prince and Peasant" (Round).

3.8: GEORGE NICHOLLS, Baritone—

"The Sweetest Flower That Blows" (Hawley).

"Overtones" (Rasbach).

"To You" (Oley Speaks).

3.13: Description of Bendigo Handicap, one mile.

3.20: AMY STRINGER—

And Her Mandolin.

3.26: YVONNE CONLY-WILMOT, Songs at the Piano—

"If You See Sally" (Donaldson).

"A Little Glean of Sun" (Drummond).

3.32: AUSTRAL BRASS BAND—

Selection: "Il Trovatore" (Verdi).

3.42: Description of Brush Steeplechase, two miles.

3.50: GEORGE NICHOLLS, Baritone—

"Comrades of Mine" (Wm. G. James).

"You Along O' Me" (Sanderson).

3.56: AUSTRAL BRASS BAND—

"Chanson Indoue" (Korsakov).

Waltz: "The Druids Prayer" (Dayson).

4.2: YVONNE CONLY-WILMOT, Songs at the Piano—

"I'm a-longin' fo' You" (Hathaway).

"A Fat Lil' Feller wid his Mammy's Eyes" (Gordon).

8.0

DANCE MUSIC

3LO



PAUL JEACLE

and

HIS RADIO DANCE BAND

Interspersed with Songs by
BEATRICE OAKLEY, A. G. SPRY,
ALBAN WHITEHEAD

BEATRICE OAKLEY, Soprano—

"In the Woods" (Austin).

A. G. SPRY, Comedian—

"My Gal's Face."

ALBAN WHITEHEAD, Baritone—

"Two Smiling Eyes" (Manges).

BEATRICE OAKLEY, Soprano—

"The Pixies' Picnic" (Day).

A. G. SPRY, Comedian—

"What Would the Congregation Say?"

ALBAN WHITEHEAD, Baritone—

"Cinderella's Wedding Day" (Cobey).

BEATRICE OAKLEY, Soprano—

"Come Out, My Dears" (Dessaur).

A. B. SPRY, Comedian—

"Why Does the Hyena Laugh?"

10.0: ALBAN WHITEHEAD, Baritone—

"The Man Who Brings the Sunshine" (Cooper).

BEATRICE OAKLEY, Soprano—

"The Fairy Laundry" (Montague Phillips).

A. G. SPRY, Comedian—

"Pat-a-cake Baker's Man."

3AR, Melbourne

8.15 to 11.0 as on Tuesday.

AFTERNOON

12.0: G.P.O. chimes.

12.1: COMMUNITY SINGING, transmitted from—

MELBOURNE TOWN HALL.

Conductor: Mr. FRANK HATHERLEY.

2.0: G.P.O. chimes.

The Artistic Reproduction of Absent Artists.

2.1: Symphony No. 3 in E Flat, "The Eroica" (Beethoven).

THE SYMPHONY ORCHESTRA.

2.43: BUDAPEST PHILHARMONIC ORCHESTRA.

2.49: SIEBER CHOIR.

3.0: THE STORY OF EARLY MELBOURNE—

"Banking and Finance."

Mr. C. R. LONG, M.A.

3.15: Musical interlude.

3.30: PHYSICAL SCIENCE—

"Boyle, Charles and Gay—Lussac."

Mr. J. STANLEY ROGERS.

4.0: Musical interlude.

Traders' Demonstration Session.

4.15: "Austradio" musical reproduction.

4.45: EVENSONG, transmitted from ST. PAUL'S CATHEDRAL.

5.30: Weather data. Shipping information.

EVENING

6.15: DINNER MUSIC.

Supplied by the AUSTRAL BRASS BAND.

7.30: What's On the Air Tonight.

7.32: Sporting Results. Acceptances and Barrier Positions for the Epsom Turf Club's races.

8.0: G.P.O. chimes.

NIGHT

8.0: OFF THE BEATEN TRACK—

"Cement Creek and the Acheron Way."

MR. W. H. ELSUM.

8.15: A Transmission from Ballarat—

RECITAL

By

THE BALLARAT SOLDIERS' MEMORIAL BAND.

From the

Soldiers' Institute, BALLARAT.

Assisted by—MRS. WILLIAM RITCHIE.

MISS AGNES HIGGINS.

MESSRS. EDWARD DUFF and HERBERT DUNSTAN.

BALLARAT SOLDIERS' MEMORIAL BAND.

Conductor, MR. FRANK WRIGHT—

March, "Death or Glory" (Hall).

Overture, "Pique Dame" (Suppe).

HERBERT DUNSTAN, Baritone—

"Out Where the Big Ships Go" (Hewitt).

MRS. WILLIAM RITCHIE, Contralto—

"There is No Death" (O'Hara).

4.9: AMY STRINGER—

And Her Mandolin.

4.13: Description of Handicap Trot, one mile and a quarter.

4.20: Acceptances and barrier positions for the Epsom Turf Club's races on Saturday.

4.30: AUSTRAL BRASS BAND—

Selection: "Wilfred Sanderson's Songs" (Arr. Hume).

March: "The Voice of the Guns" (Alford).

4.43: Description of Welter Handicap, six furlongs and a half.

4.50: Close down.

EVENING

5.45: "BOBBY BLUEGUM" invites you to his "Stray Sunbeam" and all the newsy bits about the Name Club. The Mail Bag is opened, and letters answered. Have your pencil and paper ready. "BOBBY BLUEGUM" may have a special message for you about a sick clubber. Now we'll have the Children's News Bulletin.

6. THE CUCKOO CLOCK announces the KIDDIES' KONCERT at 6BOE.

ANNOUNCER — 'ORACE.

(a) "AUNTIE EDIE" opens with a Harp Solo.

(b) "BOBBIE BLUEGUM" sings—

"The Dixie Sandman."

(c) "ECTOR" says—

"I'm Such a Nervous Boy."

(d) "BOBBIE BLUEGUM" has a brand new number straight from the printer.

(e) A Duet by "ORACE" and "ECTOR"

"Two Little Boys and the Apples."

(f) "Goodnight, Sweet Dreams." by the COMPANY.

6.20: "BOBBY BLUEGUM" and the BOYS say "Many Happies."

6.30: Musical Interlude.

6.35: AT HOME AND ABROAD—

By—

"THE WATCHMAN"

6.50: British Official Wireless News.

6.58: What's on the Air Tonight.

7: Time Signal.

7.1: COUNTRYMAN'S SESSION.

7.25: FOR THE WOMAN AT HOME—

"Various Preserves made with Cherries and Gooseberries."

MISS A. KNIGHT.

Under the Auspices of the Department of Agriculture.

7.40: News Service. Cable News Service. Police Messages.

7.45: THE BOOKSHELF—

"The Literary Log-Book."

CAPTAIN PETERS.

8: Time Signal.

NIGHT

8.0: See panel.

9.0: The Topic of the Week.

10.30: Official Weather Data. Police messages. Items of interest.

10.34: PAUL JEACLE AND HIS RADIO DANCE BAND—

Popular Numbers.

11.30: Close down.

JOHN CARTASSO, Euphonium Solo—

"Danny Boy" (Weatherly).

EDWARD DAFF, Tenor—

"Eleanore" (Coleridge Taylor).

JOHN D'ALBORA, Violin—

"Air and Variations" (Frank Wright).

With Band Accompaniment.

AGNES HIGGINS, Soprano—

"Spring's Awakening" (Wilfred Sanderson).

BALLARAT SOLDIERS' MEMORIAL BAND—

Selection, "William Tell" (Rossini).

EDWARD DAFF and HERBERT DUNSTAN, Duet—

Selected.

MRS. WILLIAM RITCHIE, Contralto—

Song, "Harbor Night Song" (Sanderson).

HORMAN BRADFORD, Trombone Solo—

"Parted" (Tosti).

AGNES HIGGINS, Soprano—

"I Arise from Dreams of Thee" (Brewster Jones).

EDWARD DAFF, Tenor—

"Bird Songs at Eventide" (Eric Coates).

HERBERT DUNSTAN, Baritone—

"A Dream" (Bartlett).

BALLARAT SOLDIERS' MEMORIAL BAND—

Popular numbers.

10.15: British Official Wireless News. Weather information and Herald News. Cable News Service. Police Messages.

10.30: Close down.

7.0 to 2.28: As on Monday.

AFTERNOON

- (Relayed to 2NC Newcastle)
- 2.30: Announcements.
- 2.32: AL HAMMETT, Saxophonist—
Inspiration (Hazlett).
- 2.35: DORIS LASCELLES, Monologue—
The Anniversary (Denny).
- 2.42: JOHN CHARLES THOMAS, Baritone—
In the Gloaming (Harrison).
- 2.45: VICTOR ARDEN and PHIL OHMAN,
Two-Piano Solo—
Canadian Capers (Cohen).
- 2.47: MIRIAM LESTER, Soprano.
- 2.55: AL HAMMETT, Saxophonist—
Saxophone Scandals (Dornhenger).
- 2.58: B.B.C. WIRELESS MILITARY BAND
The Black Domino Overture (Auber, arr.
Winterbottom).
- 3.4: HUBERT EISEDELL, NASH DENNIS,
NOBLE and NORMAN ALLIN, Vocal
Quartet—
Passing By (Purcell).
- 3.7: AL HAMMETT, Saxophonist—
Juliana (Gurewich).
- 3.10: The Latest in Dance Music.
- 3.16: MIRIAM LESTER, Soprano.
- 3.19: Comic Opera Cameos.
- 3.30: MEL WARD will tell of "The Dif-
ferent Types of Magic—Their Origin and
Use."
- 3.45: AL HAMMETT, Saxophonist—
Saxanella (Sanella).
- 3.48: From the Ballroom of the Oriental.
Jim Davidson's Orchestra.
- 3.55: DORIS LASCELLES, Monologue—
Reggie (Harper).
- 4.2: JIM DAVIDSON'S ORCHESTRA.
- 4.7: MIRIAM LESTER, Soprano.
- 4.10: JIM DAVIDSON'S ORCHESTRA.
- 4.17: COVENT GARDEN OPERA COM-
PANY—
Die Fledermaus—Oh, What a Feast
(Strauss).

2FC, Sydney

- 4.21: JIM DAVIDSON'S ORCHESTRA.
- 4.28: Stock Exchange, third call.
- 4.30: Close.

EVENING

- (Relayed to 2NC Newcastle)
- 5.45: Children's "Good-night" Stories, told
by the "Hello Man."
- 6.15: The 2FC Hospital Birthday League.
- 6.30: The Serial.
- 6.43: THE A.B.C. STRING SEPTET.
- 7.20: A.B.C. Sporting Service, Special
Country Session. Stock Exchange Re-
sume.
- 7.45: Late news.
- 7.51: Cables.
- 7.58: Announcements.
(Completion of Relay to 2NC Newcastle)

NIGHT

- 8.0: THE A.B.C. ORCHESTRA—
"Carmen Suite" (Bizet).
- 8.10: THE NEAPOLITANS, Vocalists—
"The Minstrel Boy" (Moore-Vogrich).
"Hey Diddle Diddle" (Beibel).
"The Parting Kiss" (Pinsuti-Nevin).
- 8.17: ETHEL LANG, Entertainer.
- 8.24: THE A.B.C. ORCHESTRA—
"Jeanne d'Arc Overture" (Verdi).
- 8.30: THE A.B.C. PLAYERS in—
"The Sun Vow."
A Romantic North American Indian
Fantasy.
Adapted for Broadcasting by John
Bevan. Produced by L. Halbert.

- Cast of Characters:
Tarshinga, a Young Indian Chief.
Natimiwa, a Beautiful Squaw.
Katchewan (the Man-Child) Son of
Tarshinga.
Powakon (a Medicine Man of Tar-
shinga).
Ranaoka, a Rival Chief.
Witoka, his Medicine Man.
Matishka, a Squaw.
- 9.30: THE NEAPOLITANS, Vocalists—
"Santa Lucia" (Rees).
"A Wish For You" (Parks).
"Good-night" (Pfeil).
- 9.37: THE A.B.C. ORCHESTRA—
"Open Road Suite" (Ansell).
- 9.47: ETHEL LANG, Entertainer.
- 9.54: THE A.B.C. ORCHESTRA—
Whirled Into Happiness Selection.
(Stoltz).
- 10.9: MOLYNEUX PHILLIPS and
PETER SUTHERLAND, Duet—
"Smile Through Your Tears" (Ham-
blen).
GEORGE GRAINGER and ROWELL
BRYDEN, Duet—
"Rose of My Heart" (Lohr).
- 10.15: Late Official Weather Forecast.
- 10.17: THE A.B.C. ORCHESTRA—
"Musical Gems of Tschaikowsky"
(Langey).
- 10.30: Latest Melodies.
Relayed to 2NC, Newcastle, from
10.30 p.m. Completion of Relay to
2NC, Newcastle, at 11 p.m.).
- 11.30: Close.

2BL, Sydney

8.15 to 2 as on Monday

AFTERNOON

- 2.30: Half an Hour with Absent Celebri-
ties.
- 3.0: FRAULEIN LANGE will give a Ger-
man Language Talk.
- 3.15: BRITISH SYMPHONY ORCHESTRA:
"Sylvia Ballet" (Delibes).
- 3.30: KAROL SZRETER, Pianist:
"Hungarian Rhapsodie" (Liszt).
- 3.45: Favorite Songs of Yester-Year.
- 3.55: ALBERT SPALDING, Violinist:
"Zapateade" (Sarasate).
- 3.58: HERBERT WALTON, Organist:
"Fugue alla Gigue" (Bach).
- 4.2: AMELITA GALLI-CURCI, Soprano:
"Kiss Me Again" (Herbert).
"Kiss in the Dark" (Herbert).
- 4.8: Selections by Orchestras of the World.
- 4.20: THEO KARIE, Tenor:
"Tis an Irish Girl I Love" (Dubin).
- 4.28: TWO BLOKES and a BAND:
"I Took Janes Walking in the Rain"
(Tillsley).
- 4.26: LIGHT OPERA COMPANY:
"Sunnyside Up Gems" (Henderson).
- 4.30: H.M. COLDSTREAM GUARDS
BAND:
"Minuet No. 1" (Paderewski).
- 4.43: Radio Rhythm.
- 4.45: Demonstration Music.
- 5.40: Weather information.
- 5.45: Close.

EVENING

- 6.15: THE A.B.C. STRING SEPTET.
- 6.45: Mr. R. M. CRAWFORD, B.A., will give
an English Language Talk.
- 7.5: The Country Man's Market Session.
- 7.20: THE A.B.C. STRING SEPTET.
- 7.45: Mrs. ALAN MILLER will speak on:
"Women and the Law."
- 7.58: What's on the air tonight?

NIGHT

- 8.0: A Recital by VIRGINIA BASSETTI,
Contraalto:
Songs by VIRGINIA BASSETTI:
Old Italian numbers:
(a) "Invocazione Di Orfeo" (Peri) (Invi-
tation of Orpheus, from Euridici).
(b) "Obellissimi Capelli" (Falconieri),
(Hair So Beautiful and Shining).
(c) "Danza Fancuilla" (Durante) (Dance,
Gentle Maiden).
Chamber Music, by the SYDNEY
STRING QUARTET:
GEORGE WHITE 1st Violin
ROBERT MILLER 2nd Violin
WILLIAM ERASNIK Viola
CEDRIC ASHTON Cello
Songs by VIRGINIA BASSETTI:
German Lieder Group, with accompani-
ment by the SYDNEY STRING QUAR-
TET.
(a) "Weylas Song" (Wolfe).
(b) "Death is the Cobling Night"
(Brahms).
(c) "Cradle Song" (Taubert).
(d) "My Resting Place" (Schubert).

- 9.0: The Family Physician.
- 9.15: THE METROPOLITAN BAND, con-
ducted by JOHN PALMER:
Overture, "The Bohemian Girl" (Balfe).
- 9.22: DAVID CRAVEN, Bass-Baritone:
(a) "Why, O Why are the Roses so
Pale" (Tschaikowsky).
(b) Two Songs by Henry Purcell:
"More Love or More Disdalm I Crave."
"Ah, How Pleasant 'Tis to Love."
- 9.29: CHANDRA PARKES, Monologues:
(a) "A Rajput Nurse" (Edwin Arnold).
(b) "Philosophy" (Emmell).
- 9.36: THE METROPOLITAN BAND:
Selection, "Verdi" (arr. Round).
- 9.46: RENE BIRKETT, Violiniste:
"Adagio Religioso" from "Concerto in
D Minor" (Vieuxtemps).
- 9.53: DAVID CRAVEN, Bass-Baritone:
"The Witch of Bowden" (Breville-Smith).
"The Bitterness of Love" (James Dunn).
"Brothers of the Empire" (Thayer).
- 10.0: THE METROPOLITAN BAND:
Fantasia, "Irene" (Tierney).
- 10.10: CHANDRA PARKES, Monologues:
(a) "Mother's Maxims" (Pelissier).
(b) "One More Chance" (Coslow and
Johnson).
(c) "I Was Sick of the Job, Anyhow"
(George Edwards).
- 10.17: THE METROPOLITAN BAND:
(a) March, "Old Comrades" (Tieke).
(b) Waltz, "Springtime Reminds Me of
You" (Rotter).
- 10.25: Late news.
- 10.28: Late weather forecast.
- 10.30: Close.

4QG, Brisbane

7.30 to 2.0 as on Monday.

AFTERNOON

- (Relayed to 4RK Rockhampton.)
- 3.0: A Session of Reproduced Items.
- 3.30: Mail Train Running Times. Melodious
Moments.

EVENING

- (Relayed to 4RK Rockhampton from 6.15.)
- 6.0: Musical Interlude.
- 6.5: Listeners' Shipping Service, Express
Train Information, Mail Notices, Stock
Exchange Notes. For the Children—
"LITTLE MISS BRISBANE," assisted by
"BEBE" and "BUNTY."

- 6.15: The Bedtime Band.
- 6.30: Birthdays.
- 6.31: Another Cookery Lesson.
- 6.45: Countryman's Service Section.
- 7.0: Dinner Music.
- 7.23: News Service.
- 7.30: "The Pastoral Industry and Research
Work," by Mr. J. L. HODGE, Instructor in
Sheep and Wool, Department of Agricul-
ture and Stock.
- 7.40: A.B.C. Sporting Notes.
- 7.50: Musical Interlude.
- 7.59: Time Signals.

NIGHT

- (Relayed to 4RK Rockhampton.)
- 8.0: "THE RADIO TROUBADOURS," Con-
ductor: HARDY GERHARDY. Dance and
Ballet.
- 9.0: Aviation Notes, by Mr. H. R.
MAUGHAN.
- 9.15: Musical Comedies.
- 10.0: Weather Information. Cable News.
News Service. British Official Wireless
News.
- 10.15: Dance Music.
- 11.0: Close.

7.30 to 2.0: As on Monday.

AFTERNOON

- 3.0: Time Signal.
- 3.1: Special request light musical reproductions.
- 4.15: How to Make the Most of Oneself. By ALYS WATSON.
- 4.30: Close down.

EVENING

- 5.50: Birthday Greetings and Correspondence.
- 6.0: "THE WATTLE LADY" will entertain with songs and stories.
- 6.30: Bright Dinner Music Reproductions.

3DB, Melbourne

MORNING

- 7.0: Brighter Breakfast Session, conducted by DAYBREAK DAN.
- 10.45: Studio Programme.
- 11.0: Women's Radio Service, conducted by MARGARET MANNING—
"Infant Welfare."
SISTER COLVIN—
"Minor Summer Ailments."
- 12.30: Market Reports.

AFTERNOON

- 2.15: A. & R. Ingwersen's Session.
- 2.30: Household Harmonies—
STRAD TRIO—
(a) "Romance" (Rubinstein).
(b) "Gavotte" (Gossec).
(c) "Tambourin" (Gossec).
- PERCY BLUNDELL, Tenor—
"Kashmiri Song" (Woodforde-Finden).
- CHRISTINE FRAILLON, Cello—
"Le Cygne" (Saint Saens).
- DOROTHY D'ORN, Soprano—
"Homeward to You" (Coates).
- STRAD TRIO—
(a) "Pale Moon" (Logan).
(b) "Two Little Blue Little Eyes" (Valsee).
- 3.15: Sun Sunshine Hour.

EVENING

- 5.30: Musical Interlude.
- 6.0: Dinner Music—
LIGHT OPERA ORCHESTRA—
"Pirates of Penzance" Overture.
- ANNETTE HANSHAW, Vocal—
"Big City Blues."
- JASCHA HEIFETZ, Violin—
"Valse Bluete."
- BILLY MURRAY AND WALTER SCANLAN, Vocal Duet—
"Since They're All Playing Miniature Golf."
- PLAZA THEATRE ORCHESTRA—
"A la Gavotte."
- DEREK OLDHAM, Tenor—
"I Love Thee."



THE REV. C. IRVING BENSON, who answers questions from 3AR every Sunday.

5CL, Adelaide

- 7.0: News Service. Stock Exchange Information. Market Reports.
- 7.15: MR A. M. WHITTENBURY.—Hints to Poultry Breeders and Fanciers.
- 7.35: A Member of the Red Cross Association will speak.
- 7.50: General Naval and Military News, by CAPTAIN J. T. SANDOW.
- NIGHT**
- 7.55: Mail Facilities of the G.P.O., by MR A. G. TYLER (Superintendent of Mails).

JESSE CRAWFORD, Organ—

- "Estrellita."
- MARGUERITE D'ALVAREZ, Contralto—
"Pres des Ramparts de Seville."
- OTTO FRITZ AND HIS SYNCOPATORS: "Elizabeth."
- ROBERT WATSON, Baritone—
"The Border Ballad."
- BERLIN STATE OPERA HOUSE ORCHESTRA—
"Suite Orientale."
- 7.0: Smile Away Club Free Theatre Tickets.
- 7.10: Market Reports.
- 7.15: Preservene Session.
- 7.30: Elliott's Cordials.
- 7.45: Clyde Booteries.
- 8.0: The White Crow Picks a Programme.
- 8.30: Church Brothers' Session.
- 8.45: Coles & Garrard's Scotch Joke Competition.
- 9.0: Hoadley's Half-hour of Harmony.
- 10.30: News.
- 10.45: Slumber Music—
"Serenata Napoletana."
"Melodrama."
"The Old Refrain."
"Veni Creator."
"Autumn Serenade."

3UZ, Melbourne

- DAY SESSIONS AS ON MONDAY**
- 8.0-8.30: Madame Pompadour's Session.
- 8.30-9.0: Catanach's Session. 9.0-9.15: Russell's Yeast Session. 9.15-9.30: Truth's sporting session. 9.30-10.0: Shell Company's programme of carefully selected music.
- 10.15: Argus news service and weather reports. 11.0: Close down.

3KZ, Melbourne

- DAY SESSIONS AS ON MONDAY.**
- 8.0 to 8.15: Puntons Shoe session. 8.15 to 8.30: Coles and Garrard entertainment. 8.30 to 8.45: Tye's furniture session. 8.45 to 9.0: F. O'Brien. News from the tracks. 9.0 to 9.15: Clyde Booteries entertainment. 9.15 to 10.0: Evening music. 10.0: Station announcements. 10.5: Evening music. 11.30: Close down.

7ZL, Hobart

- DAY SESSIONS AS ON MONDAY**
- 8.0: G.P.O. clock chimes the hour. 7ZL's Community Singing from the Town Hall, Hobart. Assisting artists: FRED A ELLIOTT, contralto; J. CHECCUCCI, flute; E. BARNETT, saxophone; DAISY WALTERS, soprano; MARY BEVIN, organ; MAANY AARONS, piano; J. BROADBENT, conductor. FRED A ELLIOTT "Meadow-sweet" (Brahe), "Down Here" (Brahe), "The Lilac Tree" (Grantlan), "The Cuckoo Clock" (Schaefer); J. CHECCUCCI, "Comin' thro' the Rye" (Pratten), "Valse Gracieuse" (German), "Whistle and I'll Come to Thee My Lad," "Bonnie Dundee" (Pratten), "Gipsy Dance" (German); E. BARNETT, "Souvenir" (Drda), "Silver Moon" (Frosini), "Kathleen Mavourneen"; DAISY WALTERS, "Down the Vale" (Moir), "Daffodil Time" (Gritton), "Last Rose of Summer" (Irish air), "To a Miniature" (Brahe). 10.0: News, meteorological information, resume of tomorrow's programme, British official wireless. 10.10: Meditation session. 11.0: Close down.

2GB, Sydney

- DAY SESSIONS AS ON MONDAY**
- 8.0: Orchestra: Overture "Carnaval."
- 8.10: Vocal Quartet. 8.15: Storyette of Industry. 8.16: Violin Solo. 8.20: JACK LUMSDAINE, the Radio Rascal. 8.32: Orchestra. 8.37: LESLIE HERFORD, Baritone. 8.45: Soprano Solo: "Love will find a way" (Lehar), "Valse Song" (German). 8.53: Organ solo: "A Brown Bird Singing."

- 8.5: From the Norwood Town Hall. Revue De Luxe.—1: TOM KING AND HIS SYMPHONISTS. 2: LESLEY BOWMAN'S BALLET CHORUS. 3: THE HUXHAM SERENADERS. 4: THE REPERTORIANS in a One-Act Play. 5: TOM KING, pianist. 6: MOSTYN SKINNER, baritone. 7: EDITH HUXHAM, soubrette. 8: DON FRASER, comedian. 9: A Tap Dance Novelty. 10: TOM KING and WALTER HURST in a Two-Piano Novelty.

- 10.15: News Session.
- 10.25: Modern Dance Music Reproductions.
- 11.0: Close Down.

- "Schon Rosmarin." 9.0: Waldos Shoe Interlude. 9.15: Orchestra. 9.20: JACK LUMSDAINE, the Radio Rascal. 9.32: Novelty Orchestra. 9.37: LESLIE HERFORD, Baritone. 9.45: Soprano solo. 9.50: Xylophone solo. 9.55: Orchestra. 10.0: Instrumental Music. 10.45: Slumber Music. 11.15: Close down.

2KY, Sydney

- DAY SESSIONS AS ON MONDAY.**
- 8.0: Studio programme. 8.1: Sporting Feature. 10.0: Closing announcements.

2UW, Sydney

- DAY SESSIONS AS ON MONDAY**
- 8.0: Famous Scenes from opera: Prelude Act 3 Tosca (Puccini), "The Bells of Dawn." 8.6: Sextette. La Gioconda (Ponchielli). 8.10: Lohengrin, Finale Act I (Wagner). 8.14: Brindisi, La Traviata (Verdi). 8.18: The Storm Scene, Otello (Verdi). 8.22: Intermezzo, Madame Butterfly (Puccini). 8.26: Judgment Scene, Aida (Verdi). 8.34: Death of Carmen, Carmen (Bizet). 8.42: Benediction of Daggers (Meyerbeer). 8.50: Prayer scene—La Forza del Destino (Verdi). 9.0: Talk on Foreign Affairs by Mr. J. M. PRENTICE. 9.10: Music. 10.30: Close down.

5KA, Adelaide

- DAY SESSIONS AS ON MONDAY**
- 8.0: Topical chorus and birthdays by MUFFIN." 8.10: Music and advertising novelties. 8.30: Messrs Unbehaun and Johnstone's Session. 9.0: Weather report, followed by studio concert. 10.30: Close.

5AD, Adelaide

- DAY SESSIONS AS ON MONDAY**
- 8.0: News Bulletin. 8.6: Recital. 8.36: Session. 9.6: News, Weather, Wheat Market, Stock Exchange. 9.21: Concert. 10.0: News. 10.2: Listeners' Request Numbers. 10.50: News. 11.0: Close Down.



JESSIE SMITH, the popular contralto, who will appear on 3LO's programme, November 25, during the Radio Matinee.

FRIDAY

November 27

3LO, Melbourne

7.0 to 1.30 as on Monday.

AFTERNOON

- 2.0: MODERN APPLIANCES IN THE HOME
"Home Decorative Effects."
MISS B. L. OSBORNE.
- 2.15: Musical Interlude.
- 2.20: THE A.B.C. WOMEN'S ASSOCIATION
Conducted by HATTIE KNIGHT.
- 2.50: Musical Interlude.
- 3.0: Time Signal.
- 3.0: THE RADIO PLAYERS—
"Sylvia Ballet" (Delibes).

- 3.8: IZA CROSSLEY—
"The Sunshine Girl."
- 3.14: MR AND MRS FIELD FISHER
Present
An Original Comedy Sketch.
"PUT IT OUT."
- 3.24: THE RADIO PLAYERS—
"Scotch Fantasia" (Naisbaum).
- 3.30: JEAN HARRISON LEE, Contralto—
Two Scottish Songs—
"Angus MacDonald" (Roeckel).
"Jock o' Hazeldene" (Loder).
- 3.36: MACDUFF WILLIAMS, Novelty Violin:
"Songs D'extase" (Chuckerbutty).

- 3.40: HARRY ROSS, Tenor—
"I Cannot Sing the Old Songs" (Claribel).
"Song of Songs" (Moya).
- 3.46: THE RADIO PLAYERS—
Selection of Mendelssohn's Songs With-
out Words.
- 3.52: MR AND MRS FIELD FISHER
Present
A Comedietta.
"A BIT PREVIOUS."
- 4.0: IZA CROSSLEY—
"The Sunshine Girl."
- 4.6: HARRY ROSS, Tenor—
"Wild Irish Rose" (Olcott).
"I Never Knew" (Florita).
- 4.14: C. RICHARD CHUGG, Flute—
"The Butterfly" (Kohler).
- 4.17: JEAN HARRISON LEE, Contralto—
"In Sweet September" (Hope Temple).
"Woman's Way" (Roeckel).
- 4.25: THE RADIO PLAYERS—
Waltz, "Ended" (Lawn Hurst).
Foxtrot, "It's the Girl" (Baer).
- 4.30: Close down.

During the afternoon progress scores in the First Test Match—South Africa versus Australia—played at Brisbane, will be broadcast as they come to hand.

EVENING

- 5.45: "BILLY BUNNY" holds the interest of both big and little listeners with an exciting story, and then reads the Children's News Bulletin.
- 6: The Cuckoo Clock.
"ROLLICKING RITA" sings an old favorite.
THE JOLLY BOYS' SCHOOL
with
"DOCTOR WHACKEM"
with
Birthday Greetings by BILLY BUNNY.
- 6.20: Musical Interlude.
- 6.35: RECITALS OF SCHOOL LITERATURE.
"From the Western Hill Top," by Donald McDonald.
"The Magpies' Song," by Frank W. Williamson.
"Heart of Spring," by Shaw Neilson.
MR. J. HOWLETT ROSS.
Under the auspices of the Education Department of Victoria.
- 6.50: British Official Wireless News.
- 6.58: What's on the Air Tonight.
7: Time Signal.
- 7.1: COUNTRYMAN'S SESSION.
- 7.25: GARDENING NOTES—
"Chrysanthemums."
MR. R. LEE.
- 7.40: News Service. Cable News Service. Police Messages.
- 7.45: SPORTING TALK—
ERIC WELCH will speak on tomorrow's Epsom Turf Club's Race meeting.
- 8: Time Signal.
At approximately 7 p.m. "Stumps" scores of the First Test match—South Africa v. Australia—played at Brisbane, will be broadcast.
Transmission from Station 2FC.
- NIGHT**
FROM "THE LITTLE THEATRE."
8.0: See panel.
TEST CRICKET
(Transmission from Station 4QG.)
10.15: Summary of the Day's Play in the First Test Match—South Africa versus Australia—played at Brisbane.
10.30: Official Weather Data. Police Messages. Items of Interest.
10.33: ART. CHAPMAN AND HIS REX ORCHESTRA—
Latest and Popular Numbers.
11.30: Close down.

8.0 ————— The A.B.C. Light Opera Co. ————— 3LO

Presents

"MA MIE ROSETTE"

A Romantic Comic Opera in Two Acts



Transmission
from
Station 2FC

From
"THE LITTLE
THEATRE"

English Version by GEORGE DANCE
Music by
PAUL LACOMBE and IVAN CARYLL.
Production .. LAURENCE HALBERT
Musical Ensembles—
MADAME EVELYN GRIEG
Orchestra conducted by E. J. ROBERTS
CHARACTERS:
Henry IV. of France—
DAVID CRAVEN
Col. Cognac JOHN BEDOUIN
Bouillon GEORGE EDWARDS
Segur HARRY SCHOFIELD

Boustajon JOHN BEDOUIN
Vincent BRYSON TAYLOR
Corisandre PHILLIPA SCHIEDEL
Martha GLADYS ROWLING
Clochette FLORENCE CRAWFORD
Therese DORIS ROBINSON
Nichette JEAN SMYTHE
Rosette IDA LEGGATT

ACT I.
SCENE: A Picturesque Farmyard near the Chateau de Nerac.

ACT II.
SCENE: The Reception Hall at the Chateau de Nerac.

3AR, Melbourne

8.15 to 11.0 as on Monday.

AFTERNOON

- 12.0: G.P.O. Chimes.
- 12.1: Musical Interlude.
- 12.15: STRAY THOUGHTS ON EVERYDAY MATTERS—
"On Our Domestic Pets—the Cat and the Dog."
By "SCRIBE."
- 12.30: Musical Interlude.
TEST CRICKET
(Transmission from 4QG Brisbane)
- 1.15: A Relayed Description of the FIRST TEST MATCH, AUSTRALIA v. SOUTH AFRICA, played at Brisbane.

- 1.30: Musical Interlude.
- 2.0: G.P.O. Chimes.
The Artistic Reproduction of Absent Artists.
- 2.1: Violin Concerto Op. 77 (Brahms)—
FRITZ KREISLER and THE BERLIN STATE OPERA ORCHESTRA.
- 2.41: PAUL ROBESON, Bass.
- 2.49: GRAND SYMPHONY ORCHESTRA.
- 2.53: PETER DAWSON, Bass-Baritone.
- 2.57: GRAND SYMPHONY ORCHESTRA.
- 3.0: INTERMEDIATE HISTORY — The Growth and Development of the British Empire.

- "The Australian Settlement and Self-Government."
MR. H. BURTON.
- 3.30: Musical Interlude.
- 3.45: PLANNING YOUR CHILD'S FUTURE: "The Technical School and Its Opportunities."
MR. G. R. GILES, B.Sc. Dip. Ed. Vocational Guidance Officer.
- 4.0: Musical Interlude.
- 4.15: "Austradio" Musical Reproduction.
- 5.0: G.P.O. Chimes.
- 5.1: "Austradio" Musical Reproduction.
- 5.30: Weather data. Shipping Information.
(Continued overleaf)

3AR, FRIDAY—Continued**TEST CRICKET.**

Relayed from Station 4QG Brisbane.
5.40: A Further Relayed Description of
FIRST TEST MATCH, Australia versus
South Africa, played at Brisbane.
6.0: Close Down.

EVENING

6.15: DINNER MUSIC Supplied by the
A.B.C. STRING ENSEMBLE.

7.30: What's on the Air Tonight.

7.32: Sporting Results.
Stump scores of First Test Match, at
Brisbane, Australia versus South Africa.

7.50: Latest Musical Releases.
8.0: G.P.O. Chimes.

NIGHT

8.0: EVERYDAY PEOPLE.

"The Country Doctor"
MR. CHARLES NUTTALL.

8.20: A TRANSMISSION FROM BALLARAT
COMMUNITY SINGING

Transmitted from Town Hall, Ballarat.
Under the Baton of
SYD. CURNOW.

10.15: NEWS SESSION.
10.30: Close Down.

2FC, Sydney

7.0 to 2.8: As on Monday.

AFTERNOON

(Relayed to 2NC, Newcastle).

2.30: Announcements.
2.32: NELLIE KEMP, Soprano—
I Did Not Know (Trotiere).
For You (Burke).
2.39: H.M. GRENADIER GUARDS BAND
Merrie England (German).
2.47: DEREK OLDHAM, Tenor—
I Love Thee (Grieg).
2.50: WILHELM BACKHAUS, Pianist:
Tango (Albeniz).
2.53: EDITH COWLEY, Monologues:
Bobbie Boy (Lee).
Baby, Oh, Where Can You Be (Korler
and Magine).
3.0: CEDRIC SHARPE, 'Cellist:
Lullaby (Peterson).
3.3: SHEFFIELD ORPHEUS CHOIR:
The Lincolnshire Poacher (Arr. Cham-
bers).
3.6: DE GROOT AND HIS PICCADILLY
ORCHESTRA:
One-way Street (Tibor).
3.8: NELLIE KEMP, Soprano:
Wake Up (Montague Phillips).
3.12: Moments Grave and Gay.
3.20: NORMAN ALLIN, Baritone:
The Mighty Deep (Jude).
3.23: Selections from Grand Opera.
3.30: A Travelogue by F. H. RAWARD.
3.45: MERV. LYONS' ORCHESTRA, from
Romano's Cafe.
3.52: EDITH COWLEY, Monologues:
Back I Went (Rose).
Bit I Do—You Know I Do (Donaldson).
3.59: NELLIE KEMP, Soprano:
Why Shouldn't I? (Freed).

4.2: MERV. LYONS' ORCHESTRA, from
Romano's Cafe.
4.9: MISCHA ELMAN, Violinist:
Caprice in E Flat Major (Wieniawski).
4.12: MERV. LYONS' ORCHESTRA, from
Romano's Cafe.
4.17: RICHARD TAUBER, Tenor:
Good-bye (Reisch).
4.20: MERV. LYONS' ORCHESTRA, from
Romano's Cafe.
4.28: Stock Exchange.
4.30: Close.

EVENING

(Relayed to 2NC, Newcastle)

5.40: Relayed from 4QG Brisbane.
Description of the play in the First Test
Match.
6.7: Children's "Goodnight" Stories, told
by the "Hello Man." Little Norma will
entertain.
6.15: The 2FC Hospital Birthday League.
6.30: The Serial.
6.45: THE A.B.C. STRING SEPTET.
7.20: A.B.C. Sporting Service by the A.B.C.
Racing Observer, M. A. Ferry.
Special Country Session. Stock Exchange
Resume.
7.45: Late news.
7.51: Cables.
7.58: Announcements.
(Completion of relay to 2NC, Newcastle).

NIGHT

8.0: (Relayed to 3LO, Melbourne).
THE A.B.C. LIGHT OPERA
COMPANY
In
"Ma Mie Rosette."

A romantic Comedy-Opera in two
acts. English version by George Dance,
music by Paul Lacombe and Ivan Caryll.
Production, Laurence Halbert.
Musical Ensembles, Madame Evelyn
Grieg.
A.B.C. Orchestra, conducted by E. J.
Roberts.

Characters:

Henry IV. of France DAVID CRAVEN
Colonel Cognac JOHN BEDOUIN
Bouillon GEORGE EDWARDS
Segur HARRY SCHOFIELD
Moustajon JOHN BEDOUIN
Vincent BRYSON TAYLOR
Corisandre PHILIPA SCHEIDEL
Martha GLADYS ROWLING
Clochette FLORENCE CRAWFORD
Therese DORIS ROBINSON
Nichette JEAN SMYTHE
Rosette IDA LEGGATT

Scenes:

Act I.—A picturesque Farmyard near
the Chateau de Nerac.
Act II.—The reception hall at the
Chateau de Nerac.
10.15: (Relayed to 2NC, Newcastle and
4QG, Brisbane)—
A talk on the day's play in the First
Test Match.
10.30: Late Official Weather Forecast.
10.32: MERV. LYONS' ORCHESTRA,
from Romano's Cafe.
(Completion of relay to 2NC, New-
castle, at 11 p.m.).
11.30: Close.

2BL, Sydney**MORNING**

9.0: Old Folks' Session.
A homely little "heart-to-heart" talk on
age and old memories.
An Old-time Record.
A further "between you, me, and the
microphone talk," during which a suit-
able poem or two will be read.
A Reading.
A Remedy Melody Record.
Remainder Morning Session as on Monday.

MORNING

12.2: From the Sydney Town Hall:
Community Singing Concert.
Arranged by The Australian Broadcasting
Company, Ltd.
1.0: Afternoon news.
1.8: Sectional Weather Forecast.
1.11: Radio Rhythm.
1.25: Austradio Musical Reproduction.
2.0: This Afternoon's Story.
2.30: Half an hour with Absent Celebrities.
3.0: Memory Melodies.
3.15: ARTHUR CATTERALL, Violinist:
Menuet in D. (Mozart).
3.19: IGNAZ FRIEDMAN, Pianist:
Scherzo in E Minor (Mendelssohn).
3.22: RICHARD TAUBER, Tenor:
Can It Be Possible (Lehar).
Tete-a-Tete Tea (Lehar).
3.28: Gilbert and Sullivan Selection.
COURT SYMPHONY ORCHESTRA:
Princess Ida, Selection (Sullivan).

3.36: EDITH MASON, Soprano:
Serenade (Tosti).
3.39: JESSE CRAWFORD, Organist:
Ah, Sweet Mystery of Life (Herbert).
3.43: DON COSSACKS CHOIR:
Monotonously Rings the Little Bell.
3.47: Selections by Orchestras of the world.
4.0: A Travelogue by MRS. MARY GREY.
4.15: RAYMOND NEWELL, Baritone.
Little Grey Church on the Hill
4.18: W. H. SQUIRE, 'Cellist:
Passionne (Ranzato).
4.21: Varied Moment Musical.
4.45: Demonstration Music.
5.40: Weather information.

AFTERNOON

6.15: THE A.B.C. STRING SEPTET.
6.45: The Boys' Aero Club, conducted by
Mr. Norman Lyons.
7.5: The Country Man's Market Session.
7.20: THE A.B.C. STRING SEPTET.
7.45: Austradio Musical Reproduction.
7.58: What's on the air tonight.

NIGHT

8.0: (Relayed to 2NC Newcastle).
A Concert Programme arranged by the
Musical Association of New South Wales.
Assisting Artists:
WILFRID ARLOM, Pianist.
SPENCER THOMAS, Tenor.
MOORE MacMAHON, Violinist.
9.0: "REDGUM" will tell listeners about
their "Gardens."

9.15: THE A.B.C. MALE QUARTET:
(a) Serenade (Schubert).
(b) The Turtle Dove (Vaughan Williams)
9.22: NANCY STEWART, Monologues:
(a) Making It Up (Walford Hyden).
(b) The Song of the Singer (Wilcox).
(c) He's Coming Home (White and
Smith).
9.29: WILL JAMES, Banjoist:
(a) Peter Gink (Cobb).
(b) Persian Market (Ketelby).
9.36: CLAUDE CORBETT will give his
Sporting Talk.
9.56: A.B.C. MALE QUARTET:
(a) Doan Ye Cry, Ma Honey (Noll).
(b) I'se Gwine Back to Dixie (White).
10.2: WILL JAMES, Banjoist:
(a) Stars and Stripes March (Souza).
Old Folks at Home.
(b) Selection Negro Melodies (Foster).
Kentucky Home.
Old Black Joe.
10.10: NANCY STEWART, Monologue:
Agatha Green (Cooper).
(Completion of Relay to 2NC Newcastle
at 10.15 p.m.)
10.17: OTTO FRITZ AND HIS SYNCO-
PATER:
(a) The Love Waltz (Heyman).
(b) You're the Only Girl For Me (Hey-
man).
10.25: Late News.
10.28: Late Weather Forecast.
10.30: Close.

4QG, Brisbane**MORNING**

7.0 to 1.30 as on Monday.

12.0: The First Test Match between Aus-
tralia and South Africa will be broadcast
from the Brisbane Cricket Ground. The
cricket relay will be continued until the
luncheon adjournment, the commercial
session being delayed for half an hour

In order to enable listeners to follow the
whole of the morning's play.
1.30: Countryman's Service Section.
2.0: Close.

AFTERNOON

3.0: A description of the play in the First
Test Match between Australia and South
Africa will be broadcast from the Bris-
bane Cricket Ground.

4.0: During the afternoon tea adjournment
mail train running times will be
announced, followed by a musical inter-
lude from the studio.
4.15: With the resumption of play in the
International match the description of
the game will be continued until stumps are
drawn at six o'clock.
6.0: Stumps drawn.

EVENING

(Relayed to 4RK Rockhampton from 6.15.)
 6.0: Musical Interlude.
 6.5: Listeners' Shipping Service. Express train information. Mail notices. Stock Exchange notes.
 For the Children — "UNCLE BEN," "UNCLE BOB" and "PROFESSOR SHERBERT."
 6.15: A Race at the Exhibition Grounds.
 6.30: Birthdays.
 6.45: Good-night!
 6.45: Countryman's Service Section.
 7.0: Dinner Music.
 7.23: News Service.
 7.30: A.B.C. Sporting Session, including Stumps Drawn Scores.
 7.45: MICK FLANAGAN will review tomorrow's races.
 7.59: Time Signals.

NIGHT

(Relayed to 4RK Rockhampton.)
 8.0: FRANK COUGHLAN AND HIS BAND—
 "Leave the Rest to Nature."

"I'm So Used to You Now."
 "Yours and Mine."
 "You Didn't Have to Tell Me."
 HARRY BORRADALE, Entertainer.
 FRANK COUGHLAN AND HIS BAND—
 "Wabash Moon."
 "For You."
 "The Kiss Waltz."
 "One More Waltz."
 CLEMENT Q. WILLIAMS—
 "Ride on Vaquero."
 "You'll Find Your Answer."
 FRANK COUGHLAN'S BAND—
 "My Canary Has Circles Under His Eyes."
 "You'll be Mine in Apple Blossom Time."
 "One More Hour of Love."
 "Sweet Jenny Lee."
 GLADYS MONCRIEFF (Soprano)—
 "Gypsy Charmer."
 "Whisper and I Shall Hear."
 FRANK COUGHLAN'S CARLTON ORCHESTRA—
 "Dancing With Tears in My Eyes."
 "While Hearts are Singing."
 "Reaching for the Moon."

"You Will Remember Vienna."
 ALFRED O'SHEA (Tenor)—
 "A Pair of Blue Eyes."
 "I Feel You Near Me."
 FRANK COUGHLAN'S BAND—
 "Walking Ma Baby Back Home."
 "She's a Gorgeous Thing."
 "There Goes a Horse."
 "I Bring a Love Song."
 MARIE BURKE (Soprano)—
 "Body and Soul."
 "What Have I Done."
 FRANK COUGHLAN'S ORCHESTRA—
 "I Remember You."
 "Swinging in a Hammock."
 "I'm Bringing a Red Red Rose."
 "Whoopee."
 10.0: Weather information. Cable news. News service. British Official Wireless news.
 10.15: Review of today's play in the First Test Match—South Africa versus Australia.
 10.30: FRANK COUGHLAN AND HIS CARLTON ORCHESTRA—
 Medley of Dance Tunes.

5CL, Adelaide

7.30 to 2.0: As on Monday.

AFTERNOON

3: Time Signal.
 3.1: Special request light musical reproductions.
 4.0: The A.B.C. Women's Session. Conducted by VICTORIA REYNOLDS.
 4.15: Musical Reproductions continued.
 4.30: Close Down.

EVENING

5.0: Time Signal.
 5.1: Musical Reproductions.
 5.10: From Brisbane Cricket Ground. A description of the play, South Africa v. Australia.
 5.30: Musical Reproductions (continued).
 5.50: Birthday Greetings and Correspondence.
 6.0: "AUNTIE PEGGY" will entertain with songs and stories.
 6.30: Bright Dinner Music Reproductions.
 7: Sporting service, including the cricket

scores — South Africa v. Australia, at Brisbane. Stock Exchange Information.
 7.15: Musical Reproductions.
 7.30: "SILVIUS" gives a late review of tomorrow's races at Epsom.
 7.40: MR S. T. FACY will speak.
 7.50: Friday Night Musical Gems.

NIGHT

8.0: Meanderings by "RUFUS."
 8.20: Popular Friday Night Cameo Concert.
 8.50: Final Programme for 1931 of Classical Music, by members of THE ELDER CONSERVATORIUM, ADELAIDE UNIVERSITY. Under the direction of PROFESSOR E. HAROLD DAVIES, Mus. Doc. Artists.—PETER BORNSTEIN, violinist; JOHN HORNER, pianist; HAROLD PARSONS, cellist; SYLVIA WHITTINGTON, Violinist. CLARICE GMEINER, Violinist. Invitee vocalist, FRED WILLIAMSON, Tenor. Chamber Music Feature. String Quartet by B. SMETANA. In four move-

ments. 1. Allegro Vivo Appassionato. 2. Allegro moderato a la polka. 3. Largo Sostenuuto. 4. Vivace. Programme: JOHN HORNER, Pianist. Sonata Op. 14 No. 2 (1st and 2nd movements) (Beethoven). ELDER CONSERVATORIUM QUARTET. "String Quartet" (Smetana). Allegro vivo appassionato. Allegro moderato a la polka. FRED WILLIAMSON, tenor. Selections from his farewell recital. PETER BORNSTEIN, violinist. Violin Recital: (a) "Allegro" (H. Fiocco). (b) "Chanson Arabe" (from Scheherazade). (Rimsky-Korsakov-Kreisler). (c) "Ballet Music" from "Rosamunde" (Schubert-Kreisler). JOHN HORNER, pianist. "Two Miniatures" (Gerard Williams). FRED WILLIAMSON, tenor. Request selections. ELDER CONSERVATORIUM STRING QUARTET. "String Quarter" (Smetana). Largo sostenuto. Vivace.
 10.0: The Latest Talkie Songs and Music.
 10.15: News Session.
 10.25: Dance music.

3DB, Melbourne

MORNING

7.0: Brighter Breakfast Session, conducted by DAYBREAK DAN.
 10.45: Studio Programme.
 11.0: Women's Radio Service, conducted by MISS IRIS TURNBULL—
 "Diet and Cookery Hints."
 MISS KATHLEEN BENNINGFIELD—
 "Some Christmas Suggestions."
 12.30: Market Reports.

AFTERNOON

2.15: A. & R. Ingwersen's Session.
 2.30: Household Harmonies—
 STRAD TRIO—
 (a) "Songs My Mother Taught Me" (Dvorak).
 (b) "Serenade" (Drdla).
 DOROTHY D'ORN, Soprano—
 "Bell Song" from "Lakme" (Delibes).
 MAY BRODERICK, Piano—
 "Danse Negre" (Scott).
 DOROTHY D'ORN and PERCY BLUNDELL—
 "Where My Caravan has Rested."
 CECIL PARKES, Violin—
 "Spinning Song" (Popper).
 PERCY BLUNDELL, Tenor—
 "Macushla" (McMurrough).
 STRAD TRIO—
 (a) "Mazurka de Concert" (Musin).
 (b) "Serenade Espagnole" (Chaminade).
 3.15: Sun Sunshine Hour.
 4.15: W. H. Rocke's Session.

EVENING

5.30: Musical Interlude.
 6.0: Dinner Music—
 VIENNA PHILHARMONIC ORCHESTRA: "Dorfschwalben."
 JOHN BROWNLEE, Baritone—
 "The Dreary Steppe."
 RAIE DA COSTA, Piano—
 "A Room with a View."
 META SEINEMEYER, Soprano—
 "One Fine Day" (Madame Butterfly).
 DE GROOT and PICCADILLY ORCHESTRA—
 "Evensong."

HAROLD WILLIAMS, Baritone—
 "Tomorrow."
 JACK HYLTON'S ORCHESTRA—
 "We all go Oo-ha-ha Together."
 LAYTON and JOHNSTONE, Vocal Duet: "Used to You."
 JESSE CRAWFORD, Organ—
 "Mary."
 JOHN McCORMACK, Tenor—
 "I Hear a Thrush at Eve."
 B.B.C. ORCHESTRA—
 "Nutcracker Suite"—Overture Miniature.
 7.0: Smile Away Club Free Theatre Tickets.
 7.15: Market Reports.
 8.0: Home Beautiful Hour.
 8.45: Holden's Motor Bodies Session.
 9.15: Half-hour of Fun.
 10.30: News.
 10.45: Slumber Music—

3UZ, Melbourne

DAY SESSIONS AS ON MONDAY.
 7.0-7.30: Gramophone selections. 8.30-8.45: Oliver J. Nilsen's session. 9.0-9.30: Thomas Norman's turf session. 10.0: Argus news service. 11.0: Close down.

3KZ, Melbourne

DAY SESSIONS AS ON MONDAY.
 8.0 to 8.30: Pears Pty. Ltd. furniture session. 9.15 to 10.0: Evening music. 10.0: Station announcements. 10.5: Evening music. 11.30: Close down.

7ZL, Hobart

DAY SESSIONS AS ON MONDAY
 8.0: G.P.O. Clock Chimes the Hour. 8.1: 7ZL's Dance Night. Music by 7ZL'S DANCE ORCHESTRA (interspersed with Vocal Recorded Numbers).
 9.30: "How Industry has changed the earth." "The Desert a Garden." 9.45: Dance Music by 7ZL'S Dance Band. 10.0: G.P.O. Clock chimes the hour. 10.1: News. Meteorological Information. Resume of tomorrow's programme. Comments on current topics. 10.15: Dance Session. Music by 7ZL'S Dance Band. 11.0: Close down.

2GB, Sydney

DAY SESSIONS AS ON MONDAY

8.0: Orchestra: Overture. 8.10: ERNEST GIBB, Tenor: "Pale Moon" (Logan). 8.14: Violin Solo. 8.18: ERNEST GIBB, Tenor: "If music be the food of love" (Travers). 8.22: Piano Solo by CLIVE HENRY: "Florence" (Liebling). 8.27: Comicalities by LES CONEY. 8.32: Violin Solo. 8.36: More Comedy by LES CONEY. 8.40: Cello Solo. 8.44: Ernest Gibb, Tenor: "At Dawning" (Cadman). 8.48: Cello Solo. 8.52: Tenor solo by Ernest Gibb: "Eleanore" (Taylor). 8.57: Violin Solo. 9.0: Weather Report. 9.3: Piano Solo by CLIVE HENRY: "Intermezzo" CONEY. 9.14: Orchestra. 9.24: Comicalities, by LES CONEY. 9.34: Violin Solo. 9.44: Vocal Quartet. 9.50: Band Selection. 10.0: Instrumental Music. 10.45: Slumber Music. 11.15: Close down.

2KY, Sydney

DAY SESSIONS AS ON MONDAY.

8.0: Clock chimes. 8.1: Sporting Talk.—MR ANDY FLANAGAN. 8.10: Specially arranged studio programme. 10.0: Closing announcements.

2UW, Sydney

DAY SESSION AS ON MONDAY

8: Trade Demonstration Music. 9: Talk on Foreign Affairs by Mr J. M. PRENTICE. 9.10: Result of musical competition. 9.15: Victor Radio Session. 9.45: Music. 10.30: Close down.

5KA, Adelaide

DAY SESSIONS AS ON MONDAY

8.0: Topical chorus. 8.10: Trader's music. 10.30: Close.

5AD, Adelaide

DAY SESSIONS AS ON MONDAY

8.0: News. 8.6: Concert. 9.0: News. Weather, Wheat Market, Stock Exchange. 9.15: Recital. 10.0: News. 10.3: Listeners' Request Numbers. 10.59: News. 11.0: Close Down.

SATURDAY

November 28
3LO, Melbourne

7.0 to 1.30 as on Tuesday.

AFTERNOON

- 2.13: Description by ERIC WELCH, of Two-year-old Handicap—five furlongs.
EPSOM TURF CLUB RACES.
2.20: Musical Interlude.
2.43: Description of Epsom Plate—six furlongs.
2.50: Musical Interlude.
3.0: Time signal. Sporting results to hand.
3.3: Musical Interlude.
3.13: Description of Brush Steeplechase—two miles 16 chains.
3.20: Musical Interlude.
3.30: Sporting results to hand.
3.33: Musical Interlude.
3.43: Description of Epsom Purse—1½ miles.
3.50: Musical Interlude.
4.0: Time signal. Sporting results to hand.
4.3: Musical Interlude.
4.13: Description of Epsom Handicap—1¼ miles.
4.20: Musical Interlude.
4.43: Description of Highweight Welter—nine furlongs.
4.50: Close down.
Progress scores in the First Test Match—Australia versus South Africa—played at Brisbane, will be given as they come to hand.
During the afternoon the speeches from a combined meeting of Workers' Educational Association of Victoria, at the New Arts Building, will be broadcast.

EVENING

- 5.45: "LITTLE MISS KOOKABURRA'S" happy laugh will be followed with a story for the tiny ones—

- "The Escapade of Jeremiah Twinkletoes."
The Children's News Bulletin.
6.0: The Cuckoo Clock.
THE RADIO PLAYERS.
A Popular Foxtrot.
CAPTAIN DONALD MACLEAN gives further excerpts from Alexandre Dumas's famous book, "The Count of Monte Cristo."
"The Captain of the Three-Mast-er." Part 2.
"LITTLE MISS KOOKABURRA" will tell the third, and last, instalment of—"The Explorers of the Yorkshire Moors."
6.20: Birthday Greetings by "LITTLE MISS KOOKABURRA."
6.30: Musical Interlude.
6.35: SPORTING RESULTS.
6.50: British Official Wireless News.
6.58: What's on the Air Tonight.
7.1: COUNTRYMAN'S SESSION.
7.25: SONGS AND THEIR SINGING.
"The Works of British Composers." Part I.
"Trottin' to the Fair" (Stanford).
"A Soft Day" (Stanford).
MR HAROLD BROWNING.
7.40: News Service. Cable News Service. Police Messages.
7.45: AN ASTOUNDING IMPERSONATION
"The Tichborne Claimant."
CAPTAIN DONALD MACLEAN.

NIGHT

- 8.0: See panel.
TEST CRICKET
(Transmission from Station 4QG).
10.15: Summary of the day's play in the First Test Match—Australia versus

3AR, Melbourne

MORNING

- 8.15: "Austradio" musical reproduction.
8.45: Weather data.
9.0: G.P.O. Chimes.
9.1: News Service. Cable News Service. Police Messages.
9.5: "Austradio" musical reproduction.
10.0: G.P.O. Chimes.
10.1: British Official Wireless News.
10.10: Announcements.
10.15: "Austradio" musical reproduction.
10.45: THE DAILY BROADCAST SERVICE.

AFTERNOON

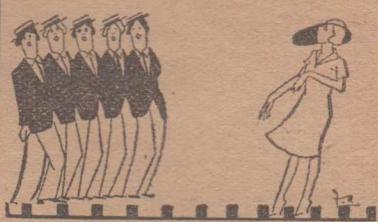
- 12.0: G.P.O. Chimes.
12.1: "Austradio" Musical Interlude.
TEST CRICKET
Relayed from 4QG Brisbane.
1.15: Relayed description of play in FIRST TEST MATCH, Australia versus South Africa, at Brisbane.
1.30: "Austradio" musical interlude.
2.0: G.P.O. Chimes.
2.1: A BALKAN INTERLUDE—"Forgotten Tirnovo"—Mr. ANTHONY BRIDGES.
2.15: DESCRIPTION OF Scenes and Events at the HENLEY REGATTA.
2.30: Musical interlude.
2.45: DESCRIPTION OF Scenes and Events at the HENLEY REGATTA.
3.0: Musical interlude.
3.15: HENLEY and the HENLEY GIRL. "Through a Woman's Eyes."
3.30: Musical interlude.
TEST CRICKET
Relayed from Station 4QG Brisbane.
3.45: Relayed Description of play in FIRST TEST MATCH, Australia versus South Africa, at Brisbane.
FROM THE STUDIO
4.0: Musical interlude.
4.15: DESCRIPTION OF Scenes and Events at the HENLEY REGATTA.

- FROM THE STUDIO
4.30: "Austradio" musical reproduction.
4.45: DESCRIPTION OF Scenes and Events at the HENLEY REGATTA.
FROM THE STUDIO
5.15: "Austradio" musical reproduction.
5.30: Weather data. Shipping information.
TEST CRICKET
5.40: Further relayed description of First Test Cricket Match, Australia versus South Africa, played at Brisbane.
6.0: Close down.
EVENING
6.15: DINNER MUSIC
Supplied by the RADIO PLAYERS.
7.30: What's on the Air Tonight.
7.32: Sporting Results. Stump scores of First Test Match, Australia versus South Africa, at Brisbane.
7.50: Latest Musical Releases.
8.0: G.P.O. Chimes.

NIGHT

- 8.0: A Variety Programme with Intermittent Dirt Track Events Descriptions. THE HAWTHORN BANJO CLUB, under the Direction of W. H. L. MAWSON, A.L.C.M.
Overture: "Caliph of Bagdad."
THE BANJO CLUB.
Steel Guitar Duo: "Moonlight on Colorado"—with vocal effects.
"Apple Blossom Time."
THE BANJO CLUB and CHORUS.
"Alexander Waltz."
THE BANJO CLUB.
Banjo-Mandoline: "Savoy Medley."
W. H. L. MAWSON.
"She's a Gorgeous Thing."
THE BANJO CLUB and CHORUS.

8.0 — Tonight — 3LO



NOVEMBER NONSENSE

A Nifty Negus of Numbers Naive and New.
Nothing Neolithic Nondescript Nor Naughty!
A Natty Nimble Nostrum Of Novelties But Nothing to Nauseate Nobody!

The Show Produced by FRANK D. CLEWLOW, with Incidental music by the A.B.C. CONCERT ORCHESTRA.

- South Africa—played at Brisbane.
10.30: Official weather data. Police messages. Sporting results. Items of interest.
10.33: ART. CHAPMAN AND HIS REX ORCHESTRA—Popular Numbers.
11.30: Close down.

- Banjo-Mandoline Quartette: "Neapolitan Nights."
"Barcarolle" (Offenbach).
THE BANJO CLUB.
Steel Guitar: "Rosary."
W. H. L. MAWSON.
"Viennese Waltz"
THE BANJO CLUB and CHORUS.
A group of Popular Numbers by THE BANJO CLUB.
JEAN LEWIS, contralto, will sing—"When Dawn Breaks Through" (Haydn Wood).
"The Fairy Changelings" (Haydn Wood).
"Big Lady Moon" (Coleridge Taylor).
"Along the Road" (Del Riego).
"Blue Bells, Dew Bells" (Besley).
J. ALEXANDER BROWNE, baritone, will sing two songs by Edith Harrihy—
(a) "A Song of the Land."
(b) "The Mallee Root," and
"Bush Night Song" (W. G. James).
"Comrades of Mine" (W. G. James).
NORM. BLAND is "Almost a Gentleman," and will supply the "Lighter Side" of the evening's entertainment.

NOTE.—At intervals during the evening descriptions by ERIC WELCH of high speed racing at the motordrome and by MEL MORRIS of dirt track racing at the Exhibition will be given.

In order that the most exciting races may be described, the usual practice of detailing the times at which descriptions will take place has been abandoned. This will allow of greater flexibility in running the programme, and will ensure that no race will be missed through last minute changes in the time-table, or through other unforeseen circumstances.

- 10.20: British Official Wireless News. Weather information and Herald news. Cable News Service. Police Messages.
10.30: "Meditation" music.
12.0: Close down.

7.0 to 12.20 as on Monday.

AFTERNOON

12.30: Radio Rhythm.
(Relayed to 2NC Newcastle.)
Note.—Race results from Kensington will be transmitted as received.

12.50: From Canterbury Park—
Description of the following races in the running:—

1. The Park Stakes.
2. The Flying Handicap.
3. The Two-year-old Handicap.
4. The Canterbury Handicap.
5. The Highweight Handicap.
6. The Ashbury Handicap.

Important Note.—Cricket scores in the First Test Match, played at Brisbane, will be given at the fall of each wicket, lunch and tea adjournment and stumps drawn. Descriptions of the play in the match will be relayed from 4QG Brisbane, between 1.15 and 1.30 p.m. and 3.45 and 4.0 p.m.

At approx. 1.57 p.m., sectional weather forecast.

At approx. 2.0 p.m., a glance at the afternoon Sun and World.

4.35: Late sporting results.

4.45: Close.

EVENING

(Relayed to 2NC Newcastle.)

5.40: Relayed from 4QG Brisbane.
Description of the play in the First Test Match.

6.0: Children's Goodnight Stories, told by the "HELLO MAN."

6.15: The 2FC Hospital Birthday League.

6.30: The serial.

6.45: THE A.B.C. STRING SEPTET.

7.20: A.B.C. Sporting Service. Special Country Session. Stock Exchange resume.

2FC, Sydney

7.45: Late news.

7.51: Cables.

7.58: Announcements.

(Completion of relay to 2NC Newcastle.)

NIGHT

8.0: THE A.B.C. ORCHESTRA—
Overture, La Burlesque (Suppe).

8.7: THE SYDNEY MADRIGAL SOCIETY—
Threnody, They that go down to the sea in ships (Bantock).
Part Song, Summer Wind (Bath).
Madrigal, Awake, Sweet Love (Dowland).

8.17: HAYDON BECK, violinist—
Meditation, from Thais (Massenet).
Slavonic Dance in G Minor (Dvorak).

8.24: THE A.B.C. ORCHESTRA—
Selection, Blue Mazurka (Lehar).

8.34: THE SYDNEY MADRIGAL SOCIETY. A Group by Morley—
Madrigal, I saw my lovely Phyllis.
Madrigal, April is in my mistress' face.

8.44: ALFRED CUNNINGHAM, baritone.
Two Old English Songs, arr. Lane Wilson—
The Tinker's Song.
The Pretty Creature.

8.51: THE A.B.C. ORCHESTRA—
Who is Sylvia (Schubert).
Skater's Waltz (Waldteufel).

9.1: The Famous Australian Poet, A. B. ("BANJO") PATERSON, in reminiscent mood.

9.15: THE SYDNEY MADRIGAL SOCIETY—
Madrigal, Cuckoo (Old English).
Part song, Carydon, Arise (Stanford).
Part song, Come, Pretty Wag, and Sing (Parry).

9.25: HAYDON BECK, violinist—
A group by Kreisler—
Caprice Viennois.
Tambourin Chinois.

9.33: ALFRED CUNNINGHAM, baritone.
The Horn (Flegler).
Gendarmes (Offenbach).

9.40: THE A.B.C. ORCHESTRA—
Three Irish Dances (Ansell).

9.50: THE SYDNEY MADRIGAL SOCIETY—
Part song, My Love Dwelt in a Northern Land (Elgar).
Part song, Spring, the Sweet Spring (Ireland).
Madrigal, Fire, Fire, My Heart (Morley).

10.0: THE A.B.C. ORCHESTRA—
Selection of Russian Folk Songs, arr. Higgs.

Veil Dance, Mystic Beauty (Finck).

10.15: Relayed from 4QG, Brisbane—
A Talk on the Play in the First Test Match.

10.30: Late Official Weather Forecast.

10.32: Meditation music by the A.B.C. STRING SEPTET.

11.30: Close.

2BL, Sydney

AFTERNOON

2.30: Sporting Descriptions, interspersed with

A Musical Programme from the Studio.
Note.—Between 3.45 and 4 o'clock, relayed from 4QG Brisbane.
Description of play in the First Test Match. South Africa v. Australia.

5.0: Complete Racing and Sporting Resume.

5.15: Musical Reproduction.

5.40: Weather Information.

5.45: Close.

EVENING

6.15: THE A.B.C. STRING SEPTET.

6.45: "Poultry Farming," by Mr CONRAD CHARLTON.

7.0: The A.B.C. Sporting Service.

7.20: THE A.B.C. STRING SEPTET.

7.45: Austradio Musical Reproduction.

7.58: What's on the Air Tonight?

NIGHT

8.0: (Relayed to 2NC Newcastle)—
THE SEVILLA GYPSIES, Instrumentalists

(a) Neapolitan Nights (Zamecnik).
(b) Senora (Nathan).

8.7: HARRY SCHOFIELD, Baritone—
Song of the Tinker (Saleman).

8.10: Piebald Philosophy by PERCIVAL.

8.20: SUZANNE ENNIS, Contralto—
Five Little Piccaninies (Robert Anthony).

8.23: THE SEVILLA GYPSIES, Instrumentalists—
(a) One More Hour of Love (Strauss).
(b) While Hearts are Singing (Strauss).
(c) Merry Makers (Hall).

8.30: From the Sydney Stadium—
Description of the Boxing Contest.

9.30: FRANK RYAN, Comedian—
The Man with the Swollen Head (Squire).

9.40: THE SEVILLA GYPSIES, Instrumentalists—
(a) Toreador's Song (Bizet).
(b) Marcheta (Schertzingler).
(c) Barcelona (Evans).

9.47: HARRY SCHOFIELD, Baritone—
(a) That Dear Old Song (Love).
(b) Glorious Devon (German).

9.54: THE SEVILLA GYPSIES, Instrumentalists—
(a) Santiago (Stothart).
(b) Violin Solo, Czardas (Monti).

10.0: SUZANNE ENNIS, Contralto—
(a) In Sweet September (Temple).
(b) All My Very Own (Mellville-Hope).

10.7: FRANK RYAN, Comedian—
Get Yourself a New Hat (Lamb).

10.17: THE SEVILLA GYPSIES, Instrumentalists—
(a) Dark Eyes (Haviland).
(b) Tell Me, Mother (Yvain).
(c) Valentine (Christino).
(d) El Croco (Villoldo).

10.25: Late News.

10.30: Late Weather Forecast.

10.32: JIM DAVIDSON'S ORCHESTRA.
(Completion of Relay to 2NC Newcastle at 11 p.m.)

12.0: Close.

4QG, Brisbane

MORNING

7.30 to 8.30: As On Monday.

Relayed to 4RK, Rockhampton, except from 11.53 a.m. to 12 noon.

11.30: Popular Music from the Studio.

AFTERNOON

12.0: A Description of the Play in the First Test Match between Australia and South Africa will be broadcast from the Brisbane Cricket Ground.

1.30: News Service. British Official Wireless News. The various races held in connection with the Queensland Turf Club's Summer Meeting will be described from the Ascot Racecourse. The starting time of the first race will be announced from the Studio earlier in the day.

During the afternoon, while races are not being broadcast, a description of the

play in the First Test Match between Australia and South Africa will be relayed from the Brisbane Cricket Ground.

6.0: Stumps Drawn.

EVENING

Relayed to 4RK, Rockhampton Until 7.45.

6.0: Interstate Race Results in Brief.

6.10: Special Bi-weekly News Service.
FOR THE CHILDREN
"THE SANDMAN"

6.15: "SANDY" and VINCE say "Hello!"
Favorite Tunes. Birthdays. More Favorites. Goodnight!

7.0: MICK FLANAGAN will review Today's Racing.

7.15: General Sporting News, including Stumps Drawn Scores.

7.30: News Service.

7.37: Sailing Notes, by STAN PHILLIPS.

7.45: A Pot Pourri of Popular Items.

7.59: Time Signals.

NIGHT

Relayed to 4RK, Rockhampton

8.0: From Tivoli Theatre—BILLY ROMAINE AND HIS TIVOLIANS. Musical Diver-tissement.

From the Bohemia Stadium—Description of the Main Wrestling Bout.
The Main Trophy Races described from the Davies Park Speedway.

10.0: Weather Information. Cable News. News Service. British Official Wireless News.

10.15: A National Network Relay of a Review of Today's Play in the First Test Match—South Africa v. Australia.

10.30: FRANK COUGHLAN AND HIS CARLTON BAND. Meditation Music.

11.30: Close.

MORNING

7.30 to 8.30: As on Monday.

CONTINUOUS DAY

During the day scores of the First Test Match — South Africa v. Australia, at Brisbane, will be broadcast immediately they come to hand.
 11.30: Saturday Morning Women's Session — Items of Interest.
 11.40: Musical Interlude — Austradio Reproductions.
 12.0: Time Signal.

AFTERNOON

12.1: "SILVIUS" selections for today's races at Epsom.
 12.6: Probable starters for today's races at Epsom.
 12.16: Musical interlude.
 12.26: News Session.
 12.36: Musical interlude.
 12.50: Weather and Grain Report.

5CL, Adelaide

1.0: During the afternoon Epsom Race Results and Musical numbers from the Studio, with a description of the First Test Match—South Africa v. Australia, from the Brisbane Cricket Ground, between 3.30 p.m. and 3.45 p.m.
 5.15: Close down.

EVENING

5.50: All sporting results.
 5.55: Birthday Greetings and Correspondence.
 6.0: "MISS WIRELESS" will entertain.
 6.30: Bright Dinner Music Reproductions.
 7.0: Today's cricket scores in the match — South Africa v. Australia, at Brisbane.
 7.5: "News" Service.
 7.10: Tennis Talk by K. BERRIMAN.

7.15: Cricket Notes by LEN FORD.
 7.20: The 5CL Weekly Sketch, conducted by KERWIN MAEGRAITH.
 7.30: REV. G. E. HALE, B.A., will deliver an interesting talk.
 7.45: All Sporting Results.

NIGHT

8.0: Old Time Dance Music by THE A.B.C. ORCHESTRA. Vocal interspersions by EDITH HUXHAM and HUGH HUXHAM, with a sprinkling of Old Time Humor and Mirth. M.C. and Sing Song Leader, COLIN VIRGO. Dance Programme: 1. Waltz. 2. Schottische. 3. Quadrilles. 4. Barn Dance. 5. Lancers. 6. Waltz Chain. 7. Valetta. 8. Polka. 9. Alberts. 10. Waltz. 11. Polka Mazurka. 12. Country requests.
 10.15: News Session.
 10.25: Old Time Dance (contd.)
 11.0: Modern Dance Musical Reproductions.
 11.30: Close down.

3DB, Melbourne

MORNING

7.0: Brighter Breakfast Session, conducted by DAYBREAK DAN.

EVENING

5.30: Musical Interlude.
 6.30: News and Results from The Sporting Globe.
 6.35: Dinner Music—
 MAYFAIR ORCHESTRA—
 "Maid of the Mountains."
 FRASER GANGE, Baritone—
 "Lassie o' Mine."
 BOYD SENTER, Clarinet—
 "New St. Louis Blues."
 THE REVELLERS—
 "Little Cotton Dolly."
 MARION ANDERSON, Contralto—
 "Deep River."
 NATIONAL SYMPHONY ORCHESTRA—
 "La Boheme"—Fantasia.
 JOHN McCORMACK, Tenor—
 "Oh, How I Miss You Tonight."
 EDWARD O'HENRY, Organ—
 "Make Believe."
 MALCOLM McEACHERN, Bass—
 "Time To Go."
 LONDON PAVILION ORCHESTRA—
 "This Year of Grace": Selection.
 7.0: Smile Away Club Free Theatre Tickets.
 7.15: Market Reports.
 9.0: Sutton's Musical Hour.
 10.25: News.
 10.30: Dance Music.

3UZ, Melbourne

7.0-7.15: MacRobertson's novelty centres session. 9.0-10.0: Nilsen's session. 10.15: Argus news service. 11.0: Close down.

3KZ, Melbourne

6.45 to 8.30: Evening music. 8.30 to 10.0: Dance music. 10.0: Station announcements. 10.5: Dance music. 11.30: Close down.

7ZL, Hobart

8.0: G.P.O. Clock Chimes the hour. "November Nonsense." The Monthly Review produced by F.D.C. Re-broadcast from 3LO, Melbourne. 10.0: Meteorological information. Resume of tomorrow's programme. British Official Wireless. Our Launceston Letter. 10.15: Dance Session. 10.30: Close down.

2GB, Sydney

8.0: Musical Session. 8.15: Storyette of Industry. 8.16: Music. 10.0: Instrumental Music. 10.45: Slumber Music. 11.15: Close down.

2KY, Sydney

DAY SESSIONS AS ON MONDAY.

8.0: Clock chimes. 8.1: Sporting feature. 10.0: Closing announcements.

2UW, Sydney

7.45: Music from the studio. 10: Bridge talk by Dr. F. V. McADAM. 10.15: Music. 10.30: Close down.

5KA, Adelaide

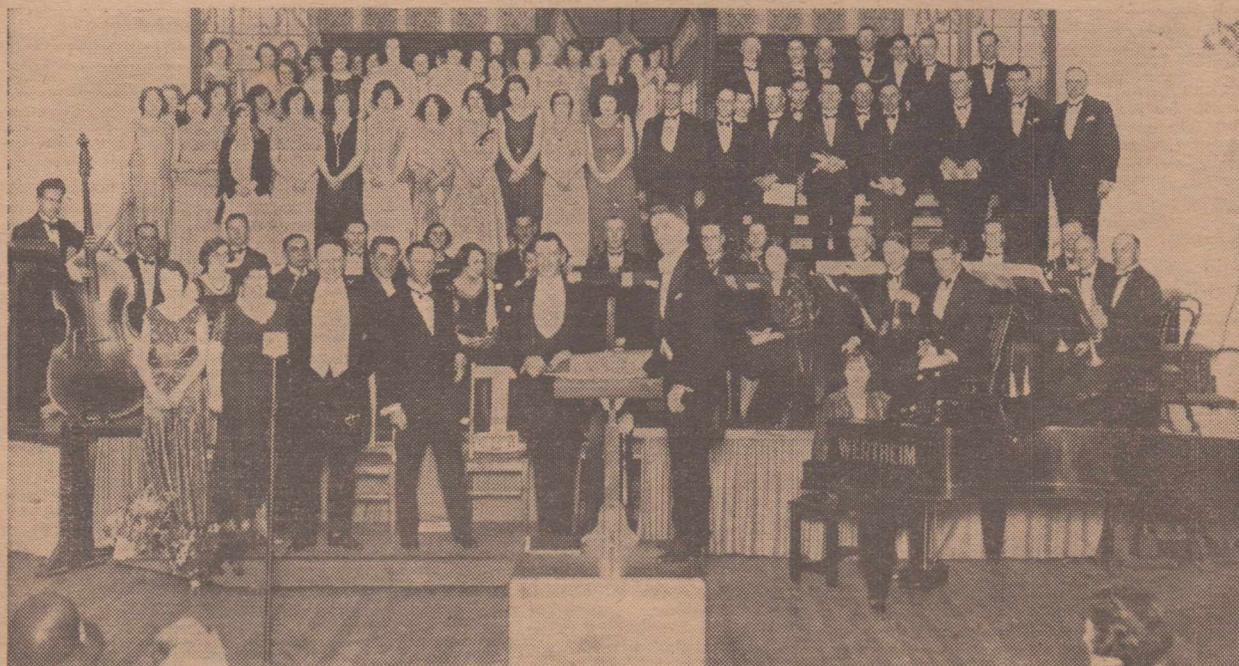
DAY SESSIONS AS ON MONDAY

8.0: Topical chorus. 8.10: Novelty programme. 9.30: Dance music. 10.30: Close.

5AD, Adelaide

DAY SESSIONS AS ON MONDAY

8.0: News Bulletin. 8.6: Vaudeville Concert. 9.0: News Bulletin, Weather Forecast, Wheat Market, Stock Exchange. 9.10: Vaudeville continued. 11.0: Close Down.



St. Ambrose's Choir with National Broadcasting Orchestra will perform "Messe Solennelle" from Station 3LO on November 28.

TECHNICAL SECTION

The Quality Four-Valve Receiver

The use of a "B" eliminator makes this A.C. set easy to build.

By "RADEX"

WHEN the novice starts out to construct an all-electric receiver he generally meets two troubles—the first fancied and the second, very often real. The object of this design is to show, by example, how such difficulties may be either avoided or removed.

The first hurdle to be reached by the newcomer to A.C. work is the fearsome word "Power-pack"—meaning a built-in unit that will supply the various valves with their diverse types and voltages of electric energy. If you will contemptuously dissect the word into its three component supplies, its dignity will dissolve and you will see that, like the l.b.w. law, it is only put in to make the game a little harder.

The power-pack's three functions are: (a) To supply raw A.C. at a low voltage suitable to the valves' filaments; (b) To provide a variety of high voltages for the diverse plate requirements; and (c) Directly or indirectly, to furnish negative grid bias where necessary.

The novice can most easily obtain these supplies as follows: (a) From an individual transformer which will convert the house lighting current down to, say, four volts at around five amps.; (b) from an ordinary B eliminator, such as was employed with the old D.C. set, and (c) from either the "C" side of that eliminator or from ordinary C bias batteries.

The second trouble, referred to in the first paragraph, is that your first A.C. receiver frequently appears to have a very poor tone—at least as compared with the previous D.C. hook-up—and this can almost invariably be traced to incorrect bias on the audio valves. "Free bias," which has so often been illustrated in these pages, and which depends upon the achievement of a suitable voltage difference through the intervention of resistances of predetermined values; is very beautiful when everything is exactly so. Without the employment of a high-resistance voltmeter, however, it is almost impossible to reach the required degree of exactitude, and, unfortunately, that instrument is rarely in the possession of the home constructor. By employing either the "C" of an eliminator or ordinary bias batteries, easy and accurate adjustments can be made to the highly important bias, and so tonal quality becomes assured. Further, if two audio stages are incorporated, a little mental arithmetic will show that a 22-volt "C" battery is cheaper than a collection of wire-wound resistors and fixed condensers.

The Circuit

Having, by these alternative means, assured quality at the set's audio end, it would be absurd to stultify our efforts by building a receiver which would only give strong signals from weak stations when the detector's regeneration is forced. To avoid such an anomaly, and in order to feed an enlarged signal to

the detector, the circuit commences with an untuned stage of R.F. amplification centring round screen-grid valve V1.

This valve's grid circuit is completed by high-resistance potentiometer, P1, to the arm of which is connected the aerial via fixed condenser, C1. The adjustment of this arm simultaneously controls the

List of Parts

B—B1, B2, B3 and B4. Leads from eliminator.

C Plus C1. Grid bias from eliminator or tapped 22-volt battery.

C1. Fixed condenser of 0.0005 mf.

C2 and C3. Fixed condensers of 0.1 mf.

C4 and C5. Fixed condensers of 1 mf.

CL. Fixed condenser of 0.0025 mf. with 2 megohm grid-leak.

CH1 and 2. Radio frequency chokes.

FT. Filament transformer to give 4 volts at least, 5 amperes with centre-tap CT.

L1, 2, 3. Coils made with 2-inch diameter tube $3\frac{1}{2}$ inches long, a reel of No. 30 d.s.c. wire and 5 yards of No. 36 enamel-covered wire. (See text).

LS. Loud-speaker connections.

M. Midget condenser of 22 plates.

P1. Five-hundred thousand ohm potentiometer.

PU. Connections for gramophone pick-up.

R1. One thousand ohm potentiometer. (A.G.N.).

T1 and T2. Audio transformers; both around ratio 3 or $3\frac{1}{2}$ to 1.

V1. Screen-grid valve and UY socket.

V2 and V3. General-purpose A.C. valves and UY sockets.

V4. Power valve and UX socket. (See note in text).

VC. Variable condenser of 0.0005 mf. with illuminated vernier dial.

Chassis. Sheet of No. 16 gauge aluminium 16 inches by 10, ebonite panel 16 inches by 6, some scrap ebonite, 17 terminals, rubber covered flex wire for connections, pair angle-brackets to support panel against aluminium base.

set's degree of selectivity and also the output volume to the speaker. In spite of previous remarks, we must use free bias on this tube, and it is obtained through the agency of resistance R1, and condenser C2.

The only tuned circuit is formed by grid coil L2 and variable condenser VC—to the former of which the output of V1 is coupled by coil L1. L3 is

the fixed tickler coil supplying regeneration, and the effect is governed by midget condenser M. Terminals for a gramophone pick-up PU are provided. Two conventional stages of transformer-coupled audio complete the set, and it is presumed that 4-volt A.C. valves are used throughout in conjunction with a centre-tapped filament transformer and eliminator.

Notes on the Parts

As the average commercially-built B eliminator has a limited output, it will be unwise to use a high voltage power valve at V4. If we allow that the first three tubes will together consume around 15 milliamperes, a tube operating at a plate voltage of 150, and using another 15 m.a. would suit V4. Such would be a Philips B403, Osram P425, or Cossor 415XP.

Resistance R1 has a critical value, which will depend upon the voltage applied to V1's plate, and the plate milliamperage. We are, however, ignorant of these values, but the difficulty is easily overcome by making R1 variable, setting it initially to give the best signal strength, and then forgetting all about it.

All parts listed are essential, with the possible exception of condenser C5. This may be omitted initially, and only inserted if an eliminator hum arises. Its cost is small, however, and it is better in than out.

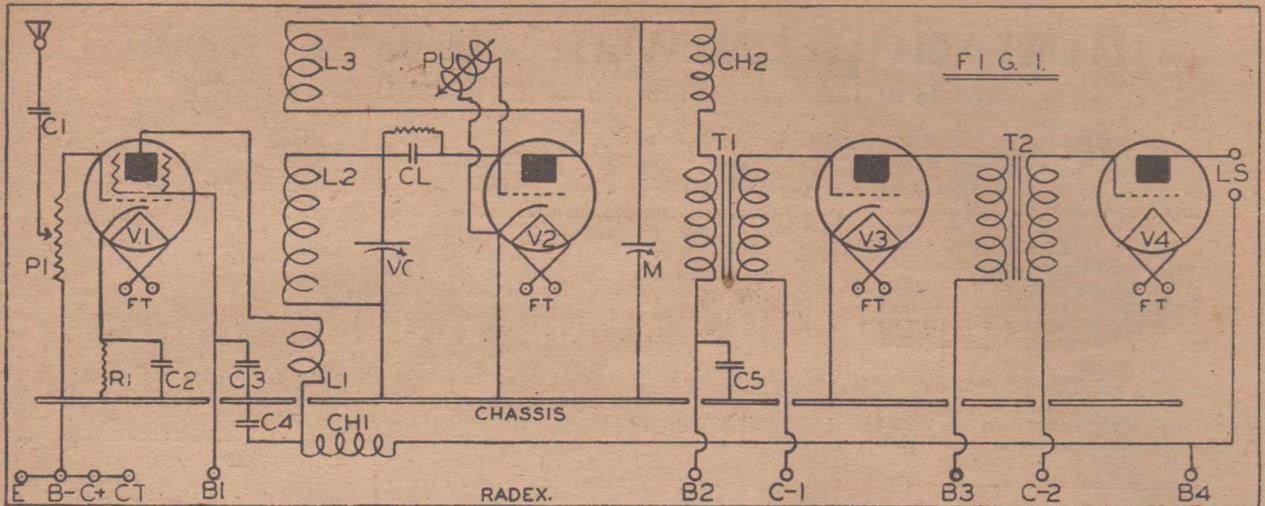
Assembly

All parts and all wiring—with the exception of one section—are carried on top of the aluminium sheet which forms the chassis. The twisted filament wiring is run under the sheet with the object of shielding it from other connections, and so removing chances of hum.

Scratch lines parallel to, and one inch from, each of the sheet's longer sides, and then bend these inch-wide strips down at right angles—doing this after all necessary holes have been drilled. The ebonite face-panel is bolted to the front turn-down, and is also supported by the angle-brackets. Against the rear turn-down, fit a strip of ebonite to carry the 13 main terminals shown at the back of Fig. 3. The other two pairs of terminals (AE and E, and the LS pair) are also supported on ebonite at the points illustrated.

This drawing clearly indicates how the parts are located. Note how the relative positions of the F pair of terminals on each valve-socket are placed and slew the sockets around accordingly. Potentiometer R1, which is employed solely as a variable resistance, should be of the one-hole mounting type, and can be supported on a small bracket.

Starting about half an inch from one end of the treated tube provided, wind on 25 turns of No. 36 enamel to form coil L1. Leave a very small gap (sixteenth inch or less), and then put on 60



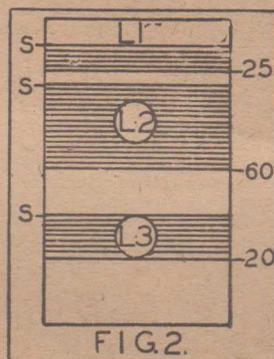
Schematic diagram of the Quality four valve receiver.

turns of No. 30 for coil L2. Now leave a second gap, this time of half an inch, and complete the unit by winding 20 turns of No. 30 for the tickler L3. The order is illustrated in Fig. 2. The ends of L1, being of very fine wire that breaks easily, should be soldered to two small bolts which have been made fast to the tube. The ends of the other two coils should be left long so that they can be used as connections. The unit is to stand upright with L3 nearest the chassis.

Using a tightly twisted pair of leads, go from the main pair FT to the F's on socket V3, running the wires under the aluminium and coming up through the adjacent hole. Similarly connect each of the remaining three sockets, so that there will be four pairs of leads going to the two main FT terminals.

In Fig. 3, all connections shown as dotted lines are leads that eventually go to earth, the chassis itself being earthed also. It follows, therefore, that all points

so connected can simply be wired to the nearest screw or bolt that touches the chassis. This, however, may be confusing to the beginner, so the complete wiring will be described, just as though all dotted leads were insulated from the aluminium.



Showing the coil details.

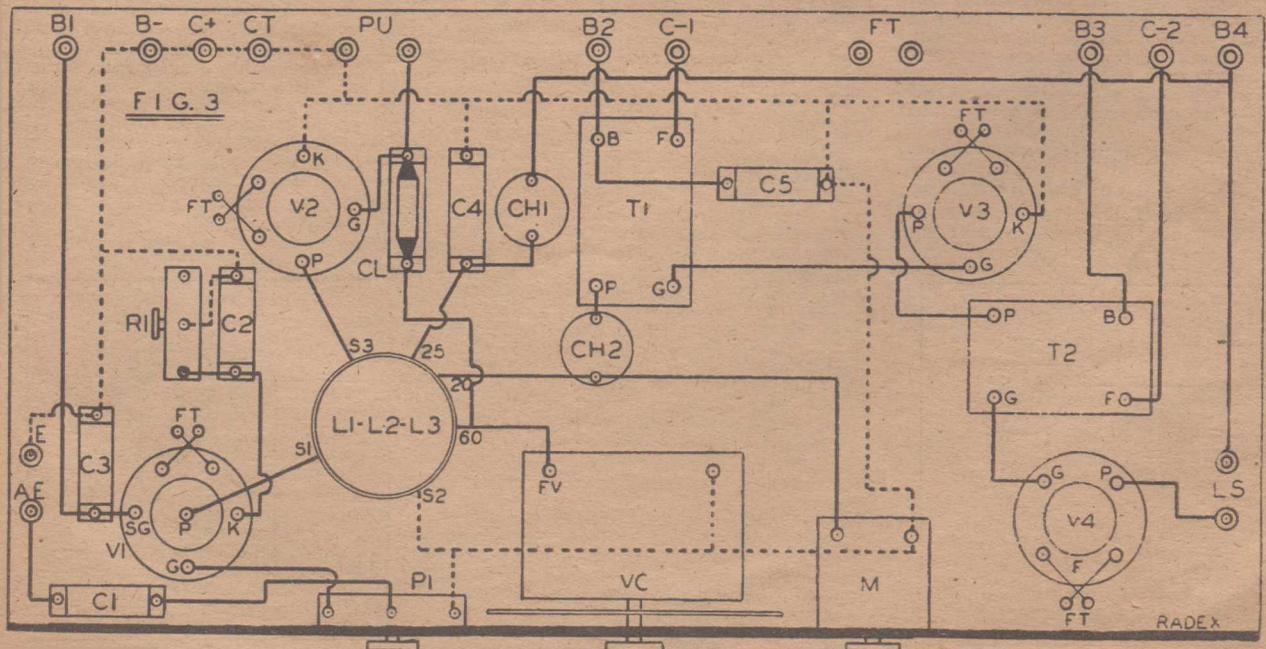
Attach earth terminal E to the chassis. Connect one end of condenser C1 to aerial terminal AE, and the other to the arm of potentiometer, P1. Take one outer terminal of P1 to G on socket V1. Join main terminal B1 to an end of condenser, C3, and continue to SG on socket V1—this latter will be marked "P" on the actual socket. Take K of V1 to an end of C2, and one outer terminal of 1000 ohm. potentiometer, R1.

From the fixed vanes (FV) of variable condenser, VC, go to end 60 of coil L2 (vide Fig. 2), and thence to one side of condenser-leak until CL. Connect the other side of CL to G of socket V2, and one of the PU pair. Wire P of that socket to end S of coil L3. Run "20" of L3 to one side of choke CH2, and thence to the fixed vanes of midget M.

Attach a lead to the S end of L1 long enough to reach to the pip terminal P on top of screen-grid valve V1. From "25" of coil L1 go to one end of fixed condenser C4 and a side of choke CH1. From the other side of CH1 run to main B4 and thence to one of the LS pair.

(Continued on page 54)

This set is on view at Homecrafts, Swanston Street, Melbourne.



Layout of the components for the four valve receiver.

Eliminating Unwanted Oscillation

How to overcome and control oscillations due to feedback

By VK3FO

ONE of the difficulties that the set builder has to contend with in designing a valve receiver is to prevent uncontrollable oscillation.

Were it not for the electrical oscillations which valves produce, broadcasting would not be possible. But, although valves deliberately made to oscillate in transmitters by adjusting various circuits, valves in receivers should only oscillate when required to.

If valves did not oscillate but merely amplify, as they are generally intended to in a multi-valve receiver, it would be a simple matter to build a set that

to the lower ones, but incorporated in the set there is generally a means for controlling these oscillations.

This feedback is caused by a portion of the signal strength in the plate circuit of the R.F. valve being sent back to the grid circuit which increases the signal strength fed into the grid and the amplification. This process of feeding back is called regeneration.

Enough of the output power can be fed back to the grid side to overcome the resistance in the grid circuit. When the output power overcomes the grid resistance the maximum point of regeneration has been passed and the point of oscillation is reached.

Although regeneration vastly increases the receiving signal, no distortion is caused if used in moderation. But if oscillation takes place in a valve it is almost impossible to hear music or speech, or if they are heard they will be badly distorted.

The difference between regeneration and oscillation will be seen.

Causes of Oscillation and Prevention

In Fig. 1 the manner in which the energy in the plate circuit feeds back to the grid circuit is shown.

Oscillation may be prevented by arranging the couplings through which the energy can feed back between the output and input circuits in such a manner as to eliminate feedback. These couplings may be capacitive, such as a coupling between two wires, or inductive, an example of which is the coupling between two coils. Coupling may also take place through resistance, such as that of power units, connected to more than one stage.

Another method of preventing oscillation is to neutralise or balance our feedbacks by allowing an undesired feedback to take place, and adding another feedback which sends energy in the opposite direction into the grid circuit in the same amount as that of the undesired feedback, so that the two balance each other. An example of this is the neutrodyne receiver.

In Fig. 2, a system of controlling the oscillation of a radio frequency valve is shown, and was used to a large extent in the earlier types of receivers. By moving the arm of the potentiometer to either the positive or negative side of the resistance, the bias applied to the grid of the valve is altered, and results in increased or decreased plate current.

One of the simplest ways of stopping oscillation in a R.F. valve is to insert a resistance in the grid circuit, as shown in Fig. 3. The value of the resistance may be as high as 1200 ohms, but it is advisable to keep the value as low as possible, or lack of sensitivity and poor selectivity results.

Reducing the plate voltage applied to the anode of a valve by means of a variable resistance stops the valve from oscillating. This method of controlling oscillation is more satisfactory than that of altering the bias.

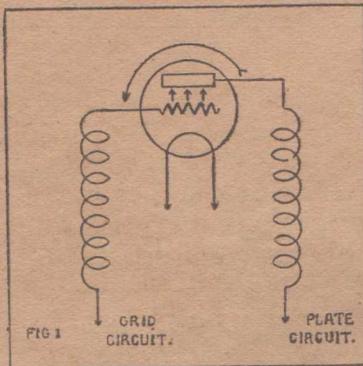
A sketch of the connections is shown in Fig. 4. It will be noticed that a bypass condenser is shown connected across the resistance, the action of which is to by-pass radio frequency currents. The capacity of the fixed condenser is .01 mfd., and the value of the variable resistance is 50000 ohms.

An annoying howl is often caused by feedbacks from audio frequency stages

to preceding amplifying stages. This trouble may be eliminated by using short wiring connections in the audio amplifier and by shielding the audio side from the remaining portion of the set.

If a loud speaker cord is placed near the aerial terminal of a set employing radio frequency valves, a feedback will occur, resulting in a medium-pitched howl. On moving the speaker wire away from the aerial terminal the howl will cease.

Capacity feedbacks are generally the most troublesome, as they are the most



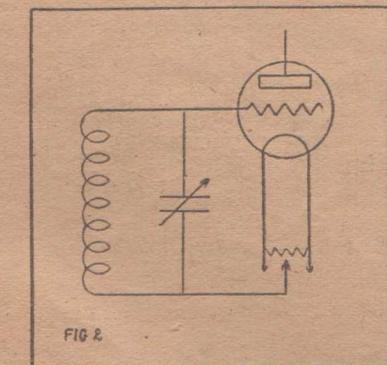
Showing the feedback between the plate and grid circuits of a valve.

would be able to receive the overseas stations by using a sufficient number of valves. Naturally the static would be terrific, but the stations would be heard.

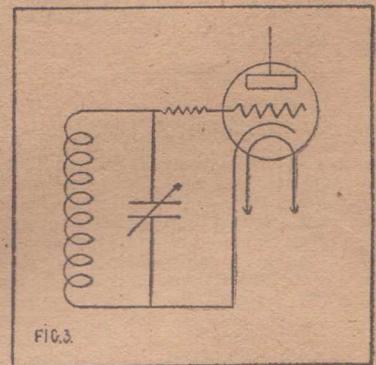
The greater the number of radio frequency amplifying valves that are used the greater is the tendency for the valves to oscillate due to feedback between the R.F. circuits.

It will be noticed, when operating a receiver which has at least one stage of R.F. amplification, using three electrode valves, that the receiver tends to oscillate when tuning in the lower wave-length stations, unless it is perfectly balanced, which is very seldom the case.

The reason for this is that, owing to the design of the set, a greater feedback occurs between the grid and plate circuits of the R.F. valve when the set is tuned to the higher frequencies than



Potentiometer method of controlling oscillation in an R.F. valve.



Resistance method of eliminating oscillation.

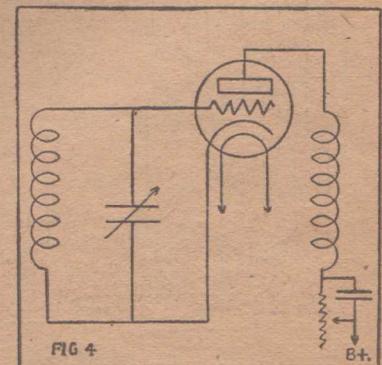
difficult to locate and the hardest to remedy.

A common offender in this respect is a feed back due to plate and grid wires of an audio amplifier running parallel. This can be eliminated by keeping the plate and grid wires as far away as possible. When it is necessary that they should come near each other run them at right angles.

In some cases capacity feedbacks can be traced to the actual capacity that exists between the elements of valves. This capacity cannot be eliminated, and varies according to the types.

To overcome this difficulty the screen grid valve was designed.

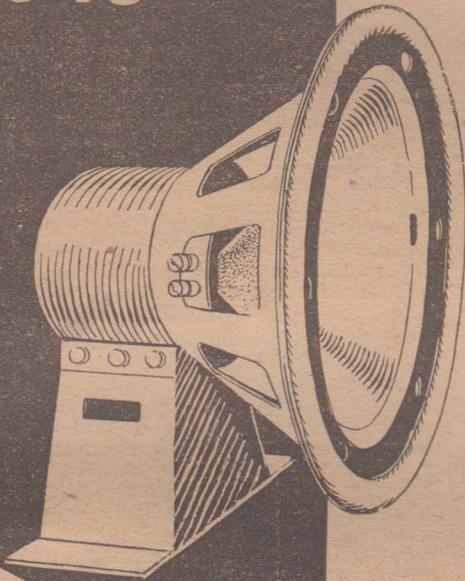
In multi-valve sets it is essential that the variable condensers should be shielded from each other in order to prevent capacity feedbacks which would otherwise take place unless the condensers were spaced at a fair distance from each other.



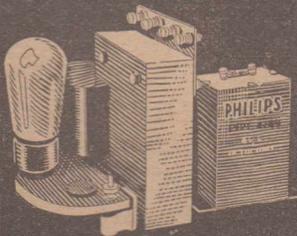
By varying the plate voltage of a valve oscillation is controlled.

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2045**



**WITH
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TYPE 2063**



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The whole construction of the unit is rugged and is capable of giving long and faithful service.

The 2063 is similar to the above but includes rectifying system for the field supply. Both units are complete with the exception of casing.

These speaker units are available from your local dealer at GREATLY REDUCED PRICES.

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Our Short Wave Bureau

A Department to assist those who listen in to Commercial Broadcasting Stations operating on the lower wave belt. Readers are invited to help by forwarding to "Short Wave," c/o The Listener In, any information regarding such broadcasts.

By "SHORT WAVE"

TO publish a complete list of all the stations in the world which are known to transmit speech or music would be to publish the official list issued by the Berne International Bureau, but it would contain many low-powered stations which can never hope to be heard in Australia except under extraordinarily favorable conditions.

The stations contained in the list on the following pages have nearly all been heard in recent months, and the operating schedules have been checked by correspondence. However, in a number of cases, there may be discrepancies of an hour or so due to difficulties encountered in converting to local time. The original schedules were quoted in standard time, daylight saving time (for the countries in question), G.M.T., G.S.T., and G.C.T., and in two particular instances both in G.M.T. and D.S.T., which did not agree, although G.M.T., as being standard throughout the world, was requested.

In addition to the stations listed, there are a number of radiophone services which are audible and which may prove interesting to readers. They are usually engaged in traffic, and very seldom in broadcasting music or programmes:—

Irregular Phone Services.—CJA, 24.793 metres, Canadian end of beam circuit; HZA, 24.91 metres, Saigon end of Paris-Saigon phone circuit; PLM, 24.46 metres, Java end of Australia-D.E.I. service (alternative wave length); ZLW, 24.4 metres, Wellington end of Australia-New Zealand phone; FTN, 24.4 metres, Paris end of colonial service; JIAA, 20.5 metres, Japanese experimental phone; JIAA, 19.1 metres, Japanese experimental phone; FFQ, 19 metres, Paris end of Saigon service; FZR, 18.5 metres, Saigon end of same service; PMC, 16.33 metres, Bandoeng terminal of Holland-Java service; PCK, 16.3 metres, Hague end of same service.

Anglo-Australian Service, etc.—GBP, 28 metres, Rugby (England) end (alternative wave lengths are available); VLK, 28.5 metres, Sydney end (alternative wave lengths are available); ZLW, Wellington; PLV, 31.86 metres, Bandoeng, and VLP Sydney, on a number of wave lengths, make up the terminals for extending the service to Java and New Zealand.

Transpacific Telephone (American). — KEL, Bolinas, Cal., heard on 43.46 metres mainly; KEE, Bolinas, Cal., heard on approximately 29 metres or 38.62 principally; KBK, Manila, P.I., heard on 31.25, and 45 metres approximately; KQH Kuhuku, Hawaii Islands, heard on about 40 metres.

Transatlantic Telephones.—WND, 16.36 metres, 22.4 metres, 32.7 metres, 44.4 metres, to GBS, Rugby (Eng.); WLO, 14.01 metres, 18.44 metres, 28.44 metres; WML, 15.14 metres, 20.05 metres, 30.9 metres, to GBU, Rugby; WNC, 15.61 metres, 20.73 metres, 30.77 metres, to GBW, Rugby; GBU, 16.11 metres, 24.41 metres, 30.15 metres, to WML, Deal, New Jersey; GBS, 16.38 metres, 24.16 metres, 42.9 metres, to WND, Deal, New Jersey; GBW, 16.54 metres, 20.7 metres, 30.6 metres, to WNC, Deal, New Jersey.

Atlantic Ship Phones. — GFWV, s.s. Majestic, on one or other of 17.1 metres, 22.5 metres, 34.1 metres, or 72.7 metres; WSEN, s.s. Leviathan, on 7.1 metres, 33.5 metres, 34.1 metres, 35.5 metres, 65.1 metres, or 72.7 metres; DDDX, s.s. Bremen, 130 metres; GLSQ, s.s. Olympic, 23.5 metres, 35 metres, 13 metres; OCW, 36 metres, is the English terminal; WOO, 17.52 metres, 23.36 metres, 34.76 metres, 73.13 metres, 96.03 metres, and 46.1 metres, is the American terminal; GZA, 62.7 metres, is at Drummondville, and works with s.s. Homeric.

A CRYSTAL RECEIVER

WILL RECEIVE LOCALS ON HEADPHONES, BUT SELDOM WITHOUT INTERFERENCE.

The ELECTRETTE is a One Valve All-Electric Receiver

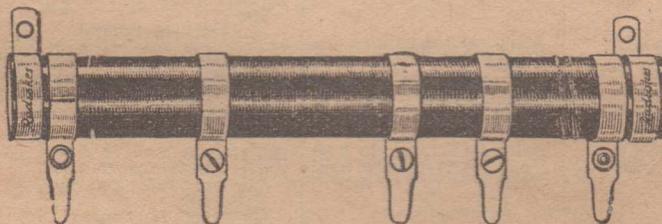
NO AERIAL — NO BATTERIES — NO DANGER.

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RADIOKES PRECISION PRODUCTS

The Listener In World Short-Wave Chart

Cut out these pages and paste them on cardboard for future reference

Call	Location	W. Length or Freq.	Operating Schedule		Remarks
			Melbourne time	Station time	
PK2AG	Samerang, Java.	105 metres	M., T., W., F., Sa.—9.40-11.40 p.m. S., 12.40 a.m. to 2.40 p.m., and 9.40 to 11.40 p.m.	Same Days.—6.40 to 8.40 p.m. Sun.—9.40 a.m. to 11.40 a.m., and 6.40 to 8.40 p.m. (Subtract 3 hours.)	Seldom reported.
Radio Roma	Rome, Italy.	80 m.	Not known definitely.	Not known definitely. (9 hours behind Melbourne time.)	Audible occasionally after midnight and early morning.
PK1AA	Batavia, Java	77.5 m.	M. to Sat.—9.40 p.m. to 12.40 a.m. Sun.—1.40 p.m. to 4.10 p.m., and 9.40 p.m. to 12.40 a.m.	Same Days.—6.40 p.m. to 9.40 p.m. Sun.—10.40 a.m. to 1.10 p.m., and 6.40 to 9.40 a.m. (Subtract 3 hours.)	Seldom reported.
RV15	Khabarovsk, Siberia	70.2 m.	Daily.—7 p.m. to midnight.	Daily.—6 p.m. to 11 p.m. (Subtract 1 hour.)	Full speaker strength from about 8 p.m. or 9 p.m. usually.
PMY PK1BR	Bandoeng, Java	58.3 m. 5145 k.c.	M. to Sat.—3.30 p.m. to 5.30 p.m., and 9.30 p.m. to 12.30 a.m. Sun.—1.30 p.m. to 4.30 p.m., and 9.30 p.m. to 12.30 a.m.	M. to Sa.—Midday to 2.30 p.m., and 6.30 p.m. to 9.30 p.m. Sun.—10.30 a.m. to 1.30 p.m., and 6.30 p.m. to 9.30 p.m. (Subtract 3 hours.)	Fair station, operated by amateur society. Second session only audible.
HVJ	Vatican City, Italy	50.26 m. 5968 k.c.	Daily.—5 a.m. to 5.30 a.m.	Daily.—8 p.m. to 8.30 p.m. (Subtract 9 hours.)	Powerful station, used for various Papal services.
ZL3ZC	Christchurch, N.Z.	50 m. 6000 k.c.	W.—4.30 to 6 p.m. F.—8.30 to 10 p.m. S.—8.30 to 9.30 p.m.	W.—6 to 7.30 p.m. F.—10 to 11.30 p.m. S.—10 to 11 p.m. (Add 1½ hours.)	Very low power. N.Z. time is advanced by one hour between October and April.
XEW	Mexico City	50 m. 6000 k.c.	Not known definitely.	Not known definitely. (Subtract 16 hours.)	Heard on Sunday afternoon irregularly between 4 and 5.30 p.m.
Moscow	Moscow, U.S.S.R.	50 m. 6000 k.c.	Daily.—2.30 a.m. to 8 a.m.	Daily.—7.30 p.m. to 1 a.m. (Subtract 7 hours.)	Very strong station up till 7 a.m.
W9XF (WENR)	Chicago, U.S.A.	49.83 m. 6020 k.c.	M.—Midnight to 3.30 a.m. T., W., Th., F., Sa., S.—1.15 to 2.45 a.m. Daily.—6.30 to 10 a.m. (M., close 9 a.m.) Mon. to Sat.—11 a.m. to 4 p.m. Sun.—3 p.m. to 5 p.m.	Sun.—8 a.m. to 11.30 a.m. M., T., W., Th., F., Sa.—9.15 to 10.45 a.m. Daily.—2.30 p.m. to 6 p.m. (S. close 5 p.m.) S. to F.—7 p.m. to midnight. Sat.—11 p.m. to 1 a.m. Sun. (Subtract 16 hours.)	Local afternoon sessions heard best here.
PK3AN	Sourabaya, Java.	49.7 m. 6035 k.c.	Daily.—9.40 p.m. to 12.40 a.m. Sun.—10.40 a.m. to 11.40 a.m., 12.40 p.m. to 2.40 p.m. additional.	Daily.—6.40 p.m. to 9.40 p.m. Sun.—7.40 a.m. to 8.30 a.m., 9.40 to 11.40 a.m. additional. (Subtract 3 hours.)	Heard occasionally after 9.30 p.m. at fair strength.
W8XAL (WLW WSAI)	Cincinnati, U.S.A.	49.56 m. 6060 k.c.	Daily.—9.30 p.m. to 1.30 a.m. 4.30 to 6.30 a.m. 9.30 a.m. to 4.30 p.m.	Daily.—5.30 a.m. to 9.30 a.m. 12.30 a.m. to 2.30 p.m. and 5.30 p.m. to 12.30 a.m. (Subtract 16 hours.)	Heard best during late afternoon or early evening. 24-hour transmission on last and first day of month.
ZL2ZX (2ZW)	Wellington, N.Z.	49.51 m. 6059 k.c.	Mon. and Thurs. — 5.30 p.m. to 9.30 p.m.	M. and Th.—7 p.m. to 11 p.m. (Add 1½ hours.)	Excellent station after 7 p.m. Operates irregular schedules in addition.
VQ7LO	Nairobi, Kenya Col.	49.15 (?) 6100 k.c.	T., Th., Sa.—1.30 a.m. to 5 a.m. W., F., Sun.—2 a.m. to 5 a.m. T.—5.30 p.m. to 6.30 p.m. Th.—10.30 p.m. to 11.30 p.m.	M., W., F. — 5.30 p.m. to 9 p.m. T., Th., Sa.—6 p.m. to 9 p.m. M.—9.30 a.m. to 10.30 a.m. W.—2.30 p.m. to 3.30 p.m.	Weak station heard in the early morning.
W9XAA	Chicago, Ill., U.S.A.	49.34 m. 6080 k.c.	First Sun. in every month. Midday to 8 p.m., corresponding with	First Sat. in every month, 8 p.m. to 4 a.m. (Subtract 16 hours.)	Low powered station heard at good strength occasionally.
D.E.I. B'cast Co.	Batavia, Java	49.3 m.	M.—9.30 a.m. to 10 a.m. 1 p.m. to 2 p.m. 3.15 p.m. to 4.15 p.m. 9.45 p.m. to 10.45 p.m. 11.15 p.m. to 12.15 a.m.	Mon.—6.30 a.m. to 7 a.m. 10 a.m. to 11 a.m. 12.15 p.m. to 1.15 p.m. 6.45 p.m. to 7.45 p.m. 8.15 p.m. to 9.15 p.m.	Station heard regularly at quite good strength, but extremely difficult to identify.
W3XAL	Boundbrook, N.J.	49.18 m. 6100 k.c.	Tues. to Sun.—7 a.m. to 8 a.m. 1 p.m. to 3 p.m.	Mon. to Sat.—4 p.m. to 5 p.m. 10 p.m. to midnight.	Excellent station being heard afternoons, relays N.B.C. programmes.
Radio Saigon	Saigon, F.I.C.	49.05 m. 6114 k.c.	Daily, except Wed.—10 p.m. to 1.45 a.m. Wed.—9.30 p.m. to 1.30 a.m.	Daily, except Wed. — 7 p.m. to 10.45 p.m. Wed.—6.30 p.m. to 10.30 p.m. (Subtract 3 hours.)	Excellent strength. European session commences about 11 p.m.
W2XE (WABC)	New York, U.S.A.	49.02 m. 6120 k.c.	Daily.—10.30 p.m. to 4 p.m. next day.	Daily.—7.30 a.m. to 1.30 a.m. next day. (Subtract 15 hours.)	Irregular station not often reported. Relays Columbia B. Chain.
W8XK KDKA	Pittsburg, P.A.	48.85 m. 6140 k.c.	Thurs. & Sun.—7 a.m. to Midnight.	Wed. to Sat.—4 p.m. to 9 p.m. (Subtract 15 hours.)	Alternative wave length occasionally reported.
VE9CL CJRM	Winnipeg, Can.	48.8 m.	Daily.—9.30 a.m. to 3 p.m.	Daily.—5.30 p.m. to 11 p.m. (Subtract 16 hours.)	Good station, but not heard regularly. Afternoon reception best.

Call	Location	W. Length or Freq.	Operating Schedule		Remarks
			Melbourne time	Station time	
W2XL	Boundbrook, N.J.	46.7 m. 6425 k.c.	Sat.—4.30 p.m. to 9.45 p.m. Sun.—2 p.m. to 11 p.m.	Sat.—1.30 a.m. to 6.45 a.m., and 11 p.m. to 8 a.m. Sun.	Relays N.B.C. to Pacific Islands. Afternoon reception best.
REN	Moscow, U.S.S.R.	46.6 m. 6414 k.c.	Daily.—Midnight to 7 a.m.	Daily.—5 p.m. to midnight. (Subtract 7 hours.)	Weak station heard irreg. off broadcast band.
HSP2	Bangkok, Siam	41 metres. 7312 k.c.	Mon.—11 p.m. to 2 a.m.	Mon.—7.30 p.m. to 10.30 p.m. (Subtract 3½ hours.)	Experimental broadcaster heard at excellent strength when in operation.
Radio Maroc.	Morocco	32.26 m.	Mon.—5.30 to 8.30 a.m.	Sun.—7.30 p.m. to 10.30 p.m. (Subtract 10 hours.)	Irregular reception. Operates telephone and telegraph with Paris normally.
VK3ME	Melbourne	31.55 m. 9507 k c	Wed. and Sat.—8 p.m. to 9.30 or 10 p.m.	Local time.	Operated by A.W.A.
W2XAF (WGY)	Schenectady, N.Y.	31.48 m. 9530 k.c.	Daily.—7 a.m. to 1 p.m.	Daily.—4 p.m. to 10 p.m. (Subtract 15 hours.)	Only fair when heard at 8 a.m. but excellent when on irreg. schedule at 9 p.m.
Zeeson	German	31.38 m. 9560 k c	Daily.—11 p.m. to midnight. 1.30 to 4.30 a.m., 5 to 9.30 a.m., and in special cases to 10.30 a.m.	Daily.—2 p.m. to 3 p.m. 4.30 p.m. to 7.30 p.m. 8 p.m. to midnight. In special cases to 1.30 a.m. (Subtract 9 hours)	Heard at best strength at about 3 a.m. to 7 a.m. Difficult to identify. Transmission in German.
W1XAZ (WBZ)	Springfield, Mass.	31.35 m. 9570 k.c.	Daily.—9.30 p.m. to 2 p.m. next day. Special for Australia—Sat. 8 a.m. to 2 p.m. Sun.	Daily.—6.30 a.m. to 11 p.m. Friday.—5 p.m. to 11 p.m. (Subtract 15 hours.)	Weak station at present — time being unsuitable for Australia.
D.E.I. B'cast Co.	Batavia, Java	31.3 m.	Tues.—9.30 a.m. to 10 a.m. 1 p.m. to 2 p.m. 3.15 p.m. to 4.15 p.m. 9.45 p.m. to 10.45 p.m. 11.15 p.m. to 12.15 a.m.	Tues.—6.30 a.m. to 7 a.m. 10 a.m. to 11 a.m. 12.15 p.m. to 1.15 p.m. 6.45 p.m. to 7.45 p.m. 8.15 p.m. to 9.15 p.m. (Subtract 3 hours.)	Changes pending in this schedule. Good reception usually.
VK2ME	Sydney, N.S.W.	31.28 m. 9590 k.c.	Sun.—3 to 5 p.m. 7 to 11.30 p.m. Mon.—5 a.m. to 7 a.m.	Local time.	Only afternoon and morning sessions audible in Melbourne.
PCJ	Eindhoven, Holland	31.28 m. 9590 k c	Th.—2 a.m. to 6 a.m. Fri., Midnight to 2 a.m. 9 a.m. to 1 p.m. Sat.—4 a.m. to 6 a.m., and 10 a.m. to 4 p.m., or Sun.—Midn. to 3 a.m.	Wed.—4 p.m. to 8 p.m. Thurs.—2 p.m. to 4 p.m. 11 p.m. to midnight. Frid.—Midnight to 3 a.m. 6 p.m. to 8 p.m. Sat.—Midnight to 6 a.m., or 2 p.m. to 5 a.m.	Patchy reception lately, although a very old timer.
Radio Goldberg	Sourabaya, Java	26.5 m.	Mon., Wed., Frid.—8.30 p.m. to 10.30 p.m.	Mon., Wed. & Frid.—6.30 p.m. to 8.30 p.m. (Subtract 2 hours.)	Only recently in operation.
Radio Coloniale (Paris)	France	25.2 m.	Daily.—4.30 a.m. to 6.30 a.m.	Daily.—6.30 p.m. to 8.30 p.m. (Subtract 10 hours.)	Very strong station under suitable conditions.
Radio Coloniale (Paris)	France.	25.63 m.	Daily.—7 a.m. to 9 a.m.	Daily.—9 p.m. to 11 p.m.	This schedule is now seldom suitable for reception, but is excellent during winter.
G5SW	Chelmsford, Eng.	25.53 m. 11,750 k.c.	Mon. to Fri.—10.30 p.m. to 11.30 p.m. Tues. to Sat.—5 a.m. to 10 a.m.	Mon. to Fri.—Midday to 1 p.m. Mon. to Fri.—7 p.m. to midnight.	Best reception at night for the present. Excellent transmission.
Radio Roma	Rome, Italy.	25.4 m.	Daily.—6.30 to 8.10 a.m.	Daily.—9.30 p.m. to 11.10 p.m. (Subtract 9 hours.)	Signal strength drops to zero by 7 a.m., but should improve in a month or so. Excellent transmission.
W9XAA	Chicago, Ill.	25.34 m. 11,840 k.c.	Sun.—2 p.m. to Mon. 2 p.m.	Sat.—10 p.m. to Sun. 10 p.m. (Subtract 16 hours.)	Schedule not confirmed. (See 49.34 m.)
W8XK (KDKA)	Pittsburgh, Pa.	25.25 m. 11,880 k.c.	Daily.—4 a.m. to mid-day.	Daily.—1 p.m. to 9 p.m. (Subtract 15 hours.)	Fair reception round about 7 to 8 a.m. An old-timer.
PK6KZ	Makassar, D.E.I.	25 m.	Wed. and Fri.—10.10 p.m. to 11.40 p.m.	Wed. to Fri.—8.10 p.m. to 9.40 p.m. (Subtract 2 hours.)	Being reported fairly consistently lately. Often mistaken for a German.
HVJ	Vatican City.	19.84 m. 15,120 k.c.	Daily.—8 p.m. to 8.30 p.m.	Daily.—11 p.m. to 11.30 a.m. (Subtract 9 hours.)	Time generally unsuitable for good reception. HVJ stations used for Papal communications, etc.
W8XK (KDKA)	Pittsburgh, Pa.	19.7 m. 15,210 kc.	Th. and Sat.—4 a.m. to 7 a.m.	Wed. and Fri.—1 p.m. to 4 p.m.	No data. Should be heard during summer months.
Radio Paris Coloniale	France.	19.68 m.	Daily.—Midnight to 3.30 a.m.	Daily.—2 p.m. to 5.30 p.m. (Subtract 10 hours.)	Very often duplex transmission is undertaken with 25.2 m. transmitter. Excellent reception at midnight.
W2XAD (WGY)	Schenectady, N.Y.	19.56 m. 15,340 k.c.	Mon. only.—3 a.m. to 5 a.m. Daily.—5 to 8 a.m.	Sun. only.—Midday to 2 p.m. Daily.—2 p.m. to 5 p.m.	Very seldom reported.
Batavia	D.E.I.	19.55 m.	Wed.—9.30 a.m. to 10.30 a.m. 1 p.m. to 2 p.m. 3.15 p.m. to 4.15 p.m. 9.45 p.m. to 10.45 p.m. 11.15 p.m. to 12.15 a.m.	Wed.—6.30 a.m. to 7.30 a.m. 10 a.m. to 11 a.m. 12.15 p.m. to 1.15 p.m. 6.45 p.m. to 7.45 p.m. 8.15 p.m. to 9.15 p.m.	Same station as on 31.3 m. and 49.3 m.
PLF	Bandoeng, Java.	16.8 m.	Daily.—10 p.m.	Daily.—7 p.m. (Subtract 3 hours.)	Phone station commences traffic occasionally with records.
W9XAA	Chicago, Ill.	16.57 m.	No reg. schedule.	(Subtract 16 hours.)	No data. Should be audible during summer.
PLE	Bandoeng, Java.	15.93 m.	Tues.—11.40 p.m. to 1.40 a.m.	Tues.—8.40 p.m. to 10.40 p.m. (Subtract 3 hours.)	Otherwise used for phone to Holland. Good reception during summer.

THE TESTING BENCH:

The 247 and 235 Valves

RECENTLY we have submitted to us by the Associated General Electric Supplies Company two of their latest types of valves, namely, the RCA-247 and the 235 for test.

The RCA-247, which is a power amplifier pentode, will be found to be quite suitable for use in the last stage of a receiver and for a comparatively small input a high gain may be expected.

A remarkable thing about this new valve is that the fifth electrode has been so designed that it plays as a suppressor. This suppressor is placed between the screen and the plate and is connected to the filament inside the valve. The suppressor is responsible for this high output.

A few hints regarding the operation of this valve may be helpful.

The load of the impedance should be maintained constantly to the impedance given in the characteristic chart.

The value given has been so chosen to minimise the distortion which is so common in a number of valves on the market at the present time.

It was found, when this valve was put under test, that it had a decided tendency to emphasise the high frequencies at the expense of the low. The high notes may be suppressed, however, by inserting a filter in the plate of the grid circuit of the valve.

Another way of overcoming this difficulty is to match the characteristics of the speaker with that of the valve.

The other valve mentioned was the RCA-235, which is similar in appearance to the popular UY224, which is mainly used in commercial receivers. This valve was designed principally to reduce cross modulation and modulation distortion, which naturally results in the ability to handle a very high signal voltage applied to the grid of the valve.

The filament consumption is 1.75 amps.

It is essential that, if the maximum efficiency is to be obtained, the heater should be operated at its rated value of 2.5 volts.

On test it was found that best results were obtained when the valve was used as a radio frequency amplifier with 180 volts on the plate, 75 volts on the screen grid, and anything from 45 to 75 volts negative bias on the grid.

Copies of the characteristics of these valves may be had by sending in a stamped and addressed envelope to The Listener In.

Radiovision One-Valve Receiver

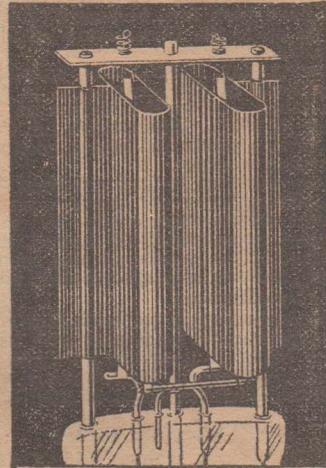
WE have had submitted to us by Radiovision (Australasia) Ltd. a sample of a one-valve receiver designed to replace a crystal receiver.

It is all-electric and merely requires to be plugged into the electric power and tuned. No aerial is necessary and no earth. On test it tuned in all the local stations at very comfortable volume, and in an outer suburb 2FC Sydney was received quite well at night.

Headphones are used with this receiver, and it should prove ideal for use under conditions where loud-speaker reception is not desired or may be inconvenient.

These receivers are supplied in two types—one for A.C. supply and one for D.C. supply. The latter may be used in a bedroom or flat in the city area, as no batteries of any description are required.

A rectifying Valve with carbonised anode - the 280/c



Many improvements are embodied in this new rectifying valve—the Cossor American Replica, 280/C. First, the plates are carbonised, permitting exceptionally high heat dissipation with the consequent ability to carry unusually high temperatures without breakdown. The special coated ribbon filament is another new feature. By functioning at a comparatively low temperature its emission is increased and the life of the valve lengthened.

Like the 280/C, all Cossor "New Process" American Replicas embody advanced features giving unequalled efficiency. See table below.

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200 QUEEN ST., MELBOURNE

		Fil. Volts	Anode Volts	Impedance	Slope	Old Price	New Price
224/C.	Screen Grid	2.5	200	400,000	1.1	29/6	22/6
227/C.	General Purp.	2.5	180	8,000	1.5	23/6	17/6
171/C.	Power Amplif.	5	180	2,200	1.5	17/6	17/6
245/C.	Power	2.5	250	1,900	3.0	25/-	19/-
280/C.	Full Wave Rect	5	350/125m.a.	-	-	20/-	15/-

Ask about Cossor Valves at Veall's 3 Big Cash Stores, Harrington's, Hartley's, or The Leviathan.

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WITH THE AMATEURS

Visiting "Ham" Entertained—With the Inland Mission—Five and Ten Metre Experiments

By MAX HOWDEN, VK3BQ

MR CRABBE, of W6ESW, who spent most of last week visiting Victorian stations, has now moved on with the "Northern Light." He was able to attend the key section meeting on Thursday evening and give us a short description of the present conditions prevailing in U.S.A.

After the meeting he was taken home by VK3YJ — of whom more anon. On the way they called in at VK3YK, where they stayed until the early hours. The sleeping hours must have been few, because 3YJ had him up again in time to go up to the Observatory on Mt. Dandenong to see the sunrise.

The following day 6ESW, after spending the morning cleaning up some of the mess made in the gear by salt water, was taken out to the 'drome at Essendon to see VK3WU and VK3WT. While there he was sent up with one of the section pilots and had a good view of the bay and surrounding country.

Much to our surprise he had not been "up" prior to his visit here. From there the party went out to VK3BQ, where several efforts were made to raise Californian stations, whose operators 6ESW knows, but they did not respond. Most of the week-end was spent in preparation for departure, and the only other station visited was VK3YL on the Tuesday afternoon.

On Wednesday morning we bade him adieu, but though he has gone personally, he is still with us on the air, and for the time being at least his 500 cycle signals with the 700 watts behind them on 36 metres are very strong. The call sign of the Northern Light is KEGG.

Another Visitor

Then, on Thursday morning, VK5AX arrived here from Cloncurry, where VK8XT, the headquarters station of the

Central Australian Mission, is situated. He reports ever-increasing activity amongst the stations that form this inland chain. There are now about twenty of them, and they extend from Innamincka right up to Milingimbi. In each case the station consists of two complete transmitters housed with the receiver inside one metal case. One of the transmitters operates on a frequency of 8830 k.c. and the other on 2020 k.c., and all that is necessary to change from one to the other is to throw a switch. The one receiver covers both waves, and consists of a detector and two stages of audio frequency amplification.

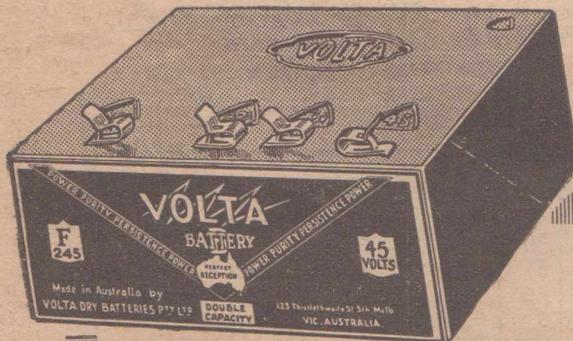
The most interesting fact about these receiving sets is that double grid valves are used in them. These valves take one and a half volts on the filament and a maximum of six volts on the plate and space charge grid, so that the total voltage required for their operation is only $7\frac{1}{2}$ volts.

The power supply for the transmitters, which are all crystal controlled, comes from D.C. generators that are driven by foot power, either with peddles like those on a bicycle or in some cases with a treadle like that on a sewing machine. The sets are so fool-proof in operation now that the only knowledge required is how to send and receive Morse Code.

Unfortunately the average person is much more at home with switches, etc., than with the code, so now VK5AX is taking a couple of months off while he tries to design a machine that will overcome even this difficulty and yet not be too expensive.

The Australian Gold Expedition

He also reports that for a while the stations of the Inland Mission heard the signals from the Australian Gold Expedition, and that when last heard this party was just starting



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off on the five weeks' camel journey. These five weeks are now about up, so we can start looking for VK8AG again.

This station was working to schedule at 10 a.m., 5.30 p.m. and 7 p.m., but most of the work seemed to be done in the mornings. The wave length is 36 metres, but provision has been made to tune up to 42 metres if necessary.

As expected, VK7JK arrived here on Friday morning, and he was met by 7CH and 3BQ. The two 7's had the day together, and then Snowy had to catch the evening boat back to Launceston. He has acquired so much new gear that he had to send quite a lot of it on ahead by post, as there was not nearly enough room for it in his bag. He will be using crystal control again before long, now that he has enough meters and valves. He has bought 7JK's 50 foot mast, so his new aerial will no doubt radiate a much greater amount of energy.

Tasmanian Visits the Mainland

VK7JK has brought most of his gear over with him, but has not yet decided where it will be installed. For the time being he is stopping very close to the old QRA of 3BQ at Ormond, and he may put it in there.

The conditions down in Hobart seem to have been marvellous on the 7 m.c. band lately, and during the last three weeks that 7JK was on the air he worked with nearly 100 European stations.

VK3WL and some of the other Victorians have been doing good work, too, but the signals from quite fifty per cent. of these European stations have not reached here. VK7GE, who has not been on the air long, and who only uses low power, has been able to work with a couple of Englishmen and several Spaniards. He will probably be able to do even better now that there is practically no QRM down there.

VK7RB has come back on the air after a long absence, but he is not working on the "DX" bands. He is concentrating on five and ten metres, so if the conditions permit he should do well. Most of the stations that do any work on these bands are only there temporarily, and are constantly re-tuning their gear, so that the maximum efficiency is never obtained.

Five Metre Work

Last Sunday VK3JJ tuned up his old oscillator that he built two years ago for five metre work, and put it on the air for the first time. His signals were picked up at R4 on a low aerial at VK3BQ, but no other reports have been received. The second op. at VK3TA is very interested in five metre work and in future will have the receiver of that station at least in action for the 1.30 p.m. schedule on that wave. As soon as the present ten metre test is over the chances are that VK3PA and VK3WL will start working on five metres again.

The latter was very disappointed that he could not take more active part in the test last week, but it so happened that he was on duty during most of the schedules. Then when he did get on his accumulator ran down. However, he was able to put enough into it between periods to last over the rest. The signals from VK3PA were very strong, but for several hours he was working with an incorrect adjustment that gave him radiation on several frequencies at once. This made it possible for receiving stations to pick him up very easily, and since no DX signals came through the added QRM did not amount to enough to be noticeable.

VK3OC is still chasing the cause of the chirp in his signals that are steady on all the other wave bands. He is going to try radio frequency chokes in all the leads, including those going to the filaments now.

On Ten Metres

There were two additions to the gang on ten metres on Sunday morning. First of all VK3TD came down again with about 25 watts input to a TC 04/10, and his signals are very steady except for a slight chirp in the note that is near to DC. The circuit is a TP/TG, but he is thinking of putting in a TNT push pull circuit.

The aerial is a standard half wave 42 metre zepp with 34 foot feeders, and he gets about half an amp. in these feeders, so he evidently loads them up to five quarter waves with a parallel condenser.

The other newcomer to the band was old VK3BD, who was putting about 30 watts into his aerial with a TC 04/10. His note was rather rough RAC, but quite steady, and his signals were R7 locally.

There was no DX, although VK3PA heard some signals modulated at 500 cycles at 9.30 a.m. This is the schedule time for VK4SK to call, so the signals probably came from him. The weather seemed to be equally wet in Queensland as it was here, so that accounts for the lack of contact between here and there.

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TROUBLE CORNER

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STATIC AND FADING.—Could you tell me whether it is possible to cut out static and fading, as it is difficult at times to hear what the announcer is saying when a burst of static comes through. Fading is not so troublesome at night as it is in daytime in my locality, and is not nearly so bad as static. My set is a battery-operated neutrodyne.—G.M.C. (Swan Hill, Vic.).

It is not possible to eliminate static or fading. There are a great number of listeners, mostly in the country districts, who have to put up with static and fading, which is due to atmospheric conditions. The solution appears to be in the erection of relay stations in the affected areas. 1.

THE REINARTZ THREE.—I have a three valve Reinartz circuit set which has one dial control with reaction coil. I can tune in a station at medium strength, and after it has been going for a few minutes it comes in with twice the volume.

The batteries A, B and C are all right, also the valve sockets appear to be O.K., and I cannot see any loose connections. A loose connection at the terminal where one end of the speaker coil is soldered could also cause the trouble. Have the valves tested and check the various connections that are mentioned in the foregoing. 1.

The trouble you complain of can be caused by a number of things. First, a defective valve; second, a poor battery connection. A loose connection at the terminal where one end of the speaker coil is soldered could also cause the trouble. Have the valves tested and check the various connections that are mentioned in the foregoing. 1.

"JAC" (Brighton, S.A.).—The circuit that you enclose is quite suitable for your locality. The A415 valve is ideal for short wave detection. Using valve base coils and 30-gauge wire, the approximate number of turns for the various wave bands are:—

Wave Length in Metres.	Grid Coil.	Reaction Coil.
10-15	2½	2½
15-28	5½	5½
28-50	8½	10½
50-100	16	15

It may be necessary either to increase or decrease the number of turns on the reaction coil in order to obtain the smoothest oscillation. 1.

J.D.C. (Blackwarry). — The crackling noise could be caused by the "B" battery. Have this battery tested; also the audio transformer, as the primary winding may have broken down. 1.

F.A.N. (Essendon, Vic.) writes:—As I shall be going to Tasmania for a holiday during the summer, I should like to take a two or three valve set with me. I have no idea of reception conditions in Tasmania, and should be glad if anyone in the North-West, near Smithton, who has a similar set, could let me know how the mainland stations come in.

A.F. (Charlton, Vic.).—The 800 ohms bias resistance should be R5 and not R3, and the reaction coil consists of 20 turns. The values of the R.C. unit are: — R3, 100,000 ohms; R4, ½ megohm; and C4, .01 mfd. We are unable to recommend any particular make of valves, for obvious reasons. Blue prints and wiring diagrams for the receiver that you mention are not obtainable. 1.

P.H.W. (Hawthorn East, Vic.).—Thanks for the circuit of the crystal set, which we may publish at a future date. 1.

"AMATEUR TATURA" (Tatura, Vic.).—There is very little difference in volume between two-volt and four-volt valves. As the set is three years old, the reason for the volume being poor is most likely due to the valves being weak. It would be advisable to have the valves tested for filament emission. Four-volt valves can be substituted for two-volt valves without any alteration to the set. The present "B" batteries will do for the four-volt valves, the only addition being a four-volt filament battery. You could convert your set to all-electric, but you would have to employ A.C. valves. 1.

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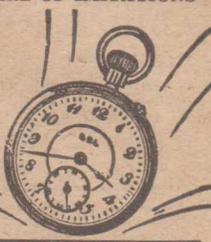
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TROUBLE CORNER—Continued

H.P.R. (Reservoir, Vic.)—Your receiver is not designed for interstate reception, and it is doubtful whether you will be able to improve the performance of the set. Try increasing the length of the aerial wire by about 20 feet. 1.

"RECTIFIER" (Bentleigh, Vic.) — The cross section of the core is one and a quarter inches. For the primary wind 1000 turns of 26-gauge wire. The number of turns per volt for the various secondary windings will be 5. The gauge of wire for the 226, 227, 171, and the 280 filament windings is 20, 18, 26, and 17 gauge respectively. The gauge of wire for the high voltage secondary is 36. 1.

M.G.C. (Yarram, Vic.)—Wind 15 turns of 26-gauge wire for the aerial coil, and 50 turns of the same gauge wire for the R.F. grid coil. The space between these two coils is half an inch. For the primary of the R.F. transformer wind approximately 25 turns of 32-gauge wire. About half an inch away from the finish of this coil, start winding the detector grid coil, which consists of 50 turns of 26-gauge wire centre tapped for the neutralising condenser connection. The tickler or reaction coil consists of 25 turns of 26-gauge wire wound on a separate former having a smaller diameter than the grid coil, in order to be able to rotate inside it. The size of the formers except the tickler former is 3 inches. 1.

G.H.D. (Mont Albert, Vic.)—Accompanying is the circuit of a simple continuity tester, which consists of an 0 to 6 volt D.C. voltmeter connected in series with a four volt battery. This tester is very handy for testing short circuits, etc.—1.

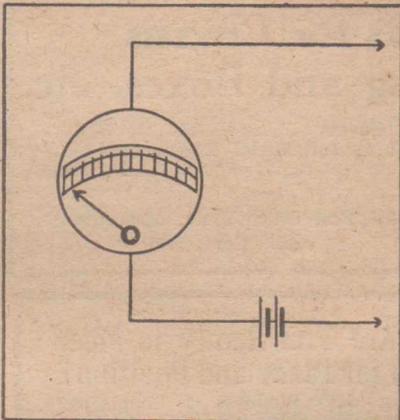


Diagram of a continuity tester.

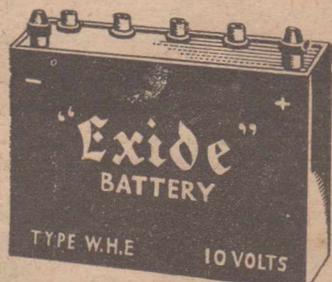
W.L. (Yarraville, Vic.)—The output of the eliminator under load is about 150 volts maximum. There should be no need to insert an extra resistance for the detector valve unless the voltage required is less than the audio valve, in which case connect another variable resistance between the output side of the choke and the "B" positive detector lead. A bell transformer is unsuitable for an eliminator. 1.

J.M.G., of Jeparit, has kindly sent in his address for the benefit of O.V. and O. S. De G. It is Mr J. M. Gloury, Jeparit, Vic. Many thanks for the enclosed leaflet.—1.

H.C.J. (Ballarat East, Vic.)—There is undoubtedly something wrong with your receiver, as we have had numerous reports concerning the remarkable selectivity of the Cockaday circuit. Try reversing the connections on the tuning coil and varying the number of turns on coil L3. Your layout is correct, the trouble most likely being in the coils.—1.

A.F.T. (Carnegie, S.A.)—The following are the stations that you may have heard:—(1) HSP1 Radio Bankok, (2) WOV America, (3) WBMI America, (4) XGAH Shanghai, China. (5) Most likely the station was a South Australian amateur. (6) The seven stations that you logged would probably be overseas. (7) Unable to place the station on 240 metres.—1.

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TROUBLE CORNER—Continued

L.B. (Tasmania).—Providing the condensers are of good design they will work O.K. in the short wave set. Take 14 plates off both condensers, leaving 5 fixed and 4 movable plates.—1.

"STICKEY" (Plenty, Tas.) writes:—KFI Los Angeles appears to be the most popular station that is received here from California on the broadcast band, so I thought a few details of their transmitter would not be out of place.

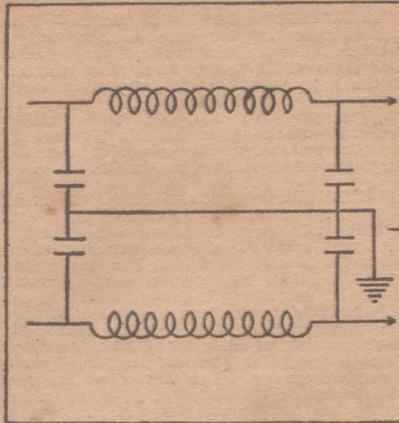
I received a letter from this station recently in reply to one I sent to KFI some months ago, and they gave me a few details of the station.

Previous to July 12, this station used a power of 5000 watts, but has since changed over to 50,000 watts. It is situated at Buena Park, some twenty miles to the east of Los Angeles. The towers, 400 feet high, are the tallest in America, and they are insulated both at the ground and the 200 levels.

The ground system consists of twenty miles of copper wire ploughed 18 inches into the soil. A two-storey brick building houses the power plant, and the transmitter, while the studios remain at the Anthony Packard building, 1000 South Hope, St., Los Angeles. The entire installation at Buena Park represents an investment of 300,000 dollars in round figures.

H.J. (Rockhampton, Qld.).—(1) The range of the crystal set is limited, and is designed for reception in the vicinity of broadcasting stations of within a radius of 20 miles. (2) The crystal valve set has a range of about 50 miles.—1.

"Q.R.M." (Roseville, N.S.W.).—As the electrical interference is apparently coming in through the A.C. mains, it would be advisable to insert a line filter in the mains. A circuit of a line filter is shown. Each condenser has a capacity of 2 mfd., and the chokes consist of 150 turns of 20-gauge wire wound on a 2-inch former.—1.



Eliminating the interference problem.

"No. 1406" (East Malvern, Vic.).—(1) Radio inspectors are not compelled to test and discover actual cause of electrical interference. (2) You can send in a complaint to the inspector regarding the inter-

ference. If he inspected your receiver, he would be able to tell you whether the induction was coming in through the A.C. mains or the aerial. (3) The Listener In of September 15, 1931, contained an article on "Improving Selectivity." (4) Wind 50 turns of 28 D.S.C. on the two inch former for the tuned coil and 15 turns of the same gauge wire for the other coil. The 50-turn coil is tuned by a .0005 mfd. condenser, and the space between the two coils is 1/2 an inch. (5) Induction can sometimes be minimised when it is received by the aerial, by means of an aerial filter. (6) The verticle aerial has just as great a pickup, and is more selective. (7) 3DB is now undergoing tests, but the trouble is most likely due to your set.—1.

L.W. (Preston, Vic.).—(1) As the audio valve does not respond to bias, the trouble could be due to a number of things. In the first place a weak emission valve would not function if the correct bias was applied. Secondly, flat low voltage B batteries. A defective "C" battery or a defective secondary winding on the audio transformer could also cause the trouble. Have all these components tested. The reason why the set works when the grid leak is removed may be due to a faulty leak. (2) A set would work with the "C" battery and the grid leak disconnected. 1.

R. O'N. (Arncliffe, N.S.W.).—There is no further information concerning the R.F. transformers. Three-inch coils are no more efficient than coils wound on a former one and three-quarter inches in diameter. For the aerial coil, wind 15 turns of 24 gauge wire, starting 1/4 in. from one end of the former. A quarter of an inch away from the end of the 15 turn winding, start the winding of the grid coil of the R.F. valve. The number of turns on this coil is 45.

The correct number of turns on the primary of the R.F. transformer can only be determined by experiment. Try winding 30 turns of 30 gauge wire for the primary coil. Half an inch from the finish of this coil wind 45 turns of 24 gauge wire for the detector grid coil. The number of turns for the reaction coil depends upon the size of the reaction condenser. The improvement when using Litz wire is only slight. 1.

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Please send full particulars, obligation free.

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A PAGE FOR LITTLE LISTENERS

Conducted by "Wiry," the Wireless Cat

Dear Little Listeners,—

HOW do you like the hot weather we have been having? Auntie Tiger is selling plenty of ice-cream and soft drinks in the shop, I can tell you. We all help her at night; then, as a special treat, she allows us to finish up any ice-cream that might be left over.

One night Auntie was most puzzled, for, after tea, although it was a very hot night, not a single customer asked for ice-cream.

"My stripes and whiskers!" she muttered angrily down in her Tiger throat, "what a lot I shall have over. It's no good to me."

What a feast we had that night, my Hearties! It seemed to be the loveliest ice-cream we had ever tasted. Monty and Ikey Inky kept bursting into fits of laughter and when we asked the reason, they just chuckled all the more and shook their silly heads until the rest of us expected them to drop off.

When we were leaving to go home, Auntie pulled me to one side.

"There's something funny about this," she hissed, with her Tiger mouth close to my ear. "See me tomorrow as soon as Mont comes from school."

Next day we noiselessly followed the bad scamp-cat to the corner of the street. He was standing there quite calmly holding out a little flag, on which was printed, in big letters:—500 ILL THROUGH EATING ICE-CREAM. LEAVE IT ALONE IF YOU WISH TO KEEP WELL!

"Suffering Tom-cats!" shouted Auntie, in an awful voice, rushing up and grabbing him by the back of the neck, "so THAT'S your little game, is it?"

"WHERE'S IKEY INKY?" she roared shaking poor old Mont backwards and forwards.

"He's a-at t-the o-o-ther c-o-corner," choked Mont.

Sure enough he was, my Hearties, waving another flag, with just the same words written on it.

"We never get enough ice-cream to eat," they explained to us, "so Mont thought that if we s-stopped the f-f-folks from buying it, w-w-we could have all that was left every n-night."

Aren't they rascals, my Hearties?

Loud Purrs,
WIRY, THE WIRELESS CAT.

WEEKLY COMPETITION

A WRITING competition this week, for a change, my Hearties, and SIX HALF-CROWNS waiting to be won. HALF-A-CROWN is always useful, and especially at this time of the year, when the shops are looking so full of good things. There are six Auntie Tiger Surprises, too, pencils, pens, brooches, note-books, hankies and Binko Badges. These are awarded for the six next best entries. Then, all the Highly Commended will have their names in the R.U.R. Column. Ten times in this column wins you a special prize of 2/6.

What you have to do:—Write the words, Christmas holidays will soon be here, then we shall have plenty of fun.

Be sure you put your name, age and address; this is most important, unless you want your entry to make a feed for that old witch, the Waste Paper Basket.

Post your entries to Binko, The Listener In, Flinders Street, Melbourne, and see that it reaches me not later than first post Monday, November 30.

Loud Purrs,
BINKO.

PEN FRIENDS WANTED

Lavinia Munday, 31 Howitt Street, Northcote South, N.16, Vic., would like a pen-friend, boy or girl (14-15).

Winning Essay

THE DOG NAMED HILDA

I AM a hophound and my name is Hilda. I was born in a stable on a country farm. Before I was old enough to walk and find food for myself, Jane, the maid, used to bring nice bones, and milk to drink, but as soon as I was old enough to get my own food she didn't bring me any more. I remember the first morning I left my snug home to have a look about I poked my nose outside the door and as the sun was shining brightly I thought I would take a walk. When I was a good distance from my home, I saw another big dog chained to a kennel and he had a nice feed of meat and bread beside him; so I walked up to him and said "Bow-wow," which means "Good morning." But he snarled at me. I thought I would like a taste of his delicious dinner, so I took one little piece.

He made a spring at me and gave me such a fright, and when Jane heard me howling she got hold of me and put me in my proper place, and I didn't sneak any more dinners.

Another morning I saw some yellow fluffy things and a big black hen strutting round the yard, and a thought came to my head. After them I scampered, and they disappeared.

But where to? I thought I would go and see, so I started barking at the old hen, and she gave me such a peck on my nose that I didn't wait to see where the fluffy things went, but I made a hasty escape. This time Jane took me inside, and gave me to a nice little boy, who said he would take care of me. So here I am, still alive and well. But I have grown much wiser now, and I never touch mother hens and their chickens, but keep a good distance from them. I am growing old and am contented to do as my dear little master tells me, and I will always love him, and guard him as far as I am able. Good-bye.

DOROTHY AUSTIN.



Binko will sing a song for you if you write and tell him you would like one. Address your letters to Binko, The Listener In, Flinders Street, Melbourne.

*Jean Stewart she would like a song,
Jean lives in Castlemaine,
A prize arrived for her before
She stepped into the train.*

*To visit dear old Melbourne town
So happily she went,
Before she'd looked in many shops,
I'm sure she'd have it spent.*

*Stan. Holden has two puss-cats brave
Who chase the hop-hounds bold,
They seek for rats and purr for pats,
By Stanley I was told.*

*One has a tail like Monty Manx,
A little stump, no more,
We sighed a sigh and said, perhaps
He caught it—in a door.*

*Flo Holland lives in Menindee,
A strong and healthy lass is she,
She has pink cheeks and eyes of brown,
And on her face there's ne'er a frown.*

*The competitions Florrie tries,
And, one day, she will win a prize;
And on that day she'll surely be
The proudest lass in Menindee.*



November 15.—Alfred Hutchison, Esther Grave, Lily Minett, Jessie Phillips, Frank Beavis, Jean Archibald.

November 16.—Joan Lowry, Peter Henty, Lucy Swartz.

November 17.—Lillian Taylor, Joe Sanders, Vernon Blazely.

November 18.—Nancy Edwards, George Rowe, Edith Lovell.

November 19.—Reg Phipps, Sheila Mathews, Joan McDonald.

November 20.—Lorna Whelan, Mary Thompson, Gary Thompson.

November 21.—Areta Marshall, Joyce Jacobs, William Pitt, Jean Carroll.

COMPETITION RESULTS

The pastels and paintings sent in for the coloring and drawing competition, were exceptionally good. The office artist had a hard job to pick the winners. Here they are:—Six half-crowns go to—Alf. Tremewen, Karoola Street, Hampton, S.7.; Jean Elliott, 9 Devonshire Square, "Trevallyn," Hobart, Tasmania; Joan and Geoffrey Lavender (between them), 19 McArthur Street, Malvern, S.E.4; Mollie Johnson, 134 Park Street, Moonee Ponds, W.A.; Lois Davis, 282 Dorcas Street, South Melbourne; Joe Manton, 17 Higham St., Maryborough.

Six Auntie Tiger Surprises for:—Winnie Jones, Hastings Road, Frankston; Bertha Clay, 108 Carpenter Street, North Brighton, S.5; Phyllis Moore, Claremont, Tasmania; Edna Cole, Delville Avenue, Yeerongpilly, South Brisbane, Q.; Gladys Austin, Cummeroo-gunja, via Picola, Victoria; Dorothy Sandow, 9 Grice Street, Essendon, W.5.1
Loud Purrs,
BINKO.

RIGHT YOU ARE

Ten times in the R.U.R. Column entitles you to a cash prize of 2/6. Be sure you underline your name and cut out this column carefully if your name appears below. When you have ten columns containing your name send them along to Binko, The Listener In, Flinders Street, Melbourne. You will receive in return a cash prize of 2/6.

Olwyn Cocking, Nancy Thornton, Stella Cockroft, John Latham, Noel Brown, Jean McAlicce, Alma Turland, Jean Huddleston, Jean and Dorothy Kishere, Joyce Tagg, Dulcie Pollard, Mary Carey, Shirley Phillips, Gordon Crowle, Bessie Goldstein, Phyllis Hobbs, Florence Holland, Nessie Fox, Betty Down, Violet Greenfield, Venus Conroy, Shirley Boland.

*Kenneth Castell, he must have
A little mention, too,
He's not yet six, but goes to school,
I think he's good, don't you?*

*Four pigeons and three sea-gulls he
Has round his place, oh, my!
If we should pay a visit there,
Those birds would surely fly.*

*Now, Margaret Hammond, so I'm told,
A pet she does not lack,
She has a puss-cat, Oscar, and
Her hop-hound's name is Crack.*

*If Auntie Tighe should hear him bark,
If e'er he should attack her,
She'd give a spring right on his back
And go off like a cracker!*

Loud purrs,
BINKO.

THE PRIVATE LINE—(Continued from page 13)

At this point a sudden gleam appeared in P.J.'s eyes, and he succeeded in restraining the anger that had been steadily mounting during this discourse.

He caught Carnforth's arm as the latter was about to burst into speech and whispered in his ear, with the result that they allowed themselves to be shepherded away to their cabin without a word of protest.

It was then learned that the captain had no key of the strongrooms and they could not be opened till the ship reached Southampton.

The submarine commander merely grunted that "He had expected something of the sort," and sent aboard his ship for an oxy-acetylene plant, and the gang of experts to work it. It would mean delay, for he dared not use explosive; but, so well had the coup been timed that a few hours mattered little to him.

IT was six hours later that Carnforth, who had slipped out on tour of reconnaissance, burst into the cabin.

"They are almost through, I think, as they're getting ready for the transhipment up topsides," he gasped breathlessly. "But, listen, P.J., listen!"

Clearly through the open port came the drone of an aeroplane engine.

"What-O! This sounds promising," said P.J., scrambling for the door. "Now things ought to liven up a bit," and despite orders and grim warnings, the two made a dash for the boat deck.

The submarine commander, however, had also heard the sound. Recognising an R.A.F. seaplane, he knew in a flash that, somehow, help had been sent for. But, contrary to P.J.'s hopes, he in no way lost his head. Posting a man at the masthead to keep a lookout for the approach of any ship, he signalled the submarine to come alongside.

The submarine was under way before the seaplane made its first swoop, and the first bomb missed her altogether. Before the airmen could make another attempt she was snugly alongside the big liner, and secured fore and aft.

"Cunning gent, our little pirate, isn't he?" said P.-J. with a hint of grudging admiration in his tone. "What the devil do we do now?" He was eyeing the big hawser that ran down to the foc'sle of the submarine, as he spoke, and noticed that it was secured a couple of feet forward of the 15-pdr., still manned by two of her crew.

"I've got it!" he said suddenly, and whispered excitedly in Carnforth's ear.

"You're mad!" said the latter a few minutes later. "You could never make it. But it's a sporting chance, and I'm with you. Give me quarter of an hour—then let her go," and hurried off to carry out his part of P.-J.'s scheme.

The gang had lost some of its vigilance, after six hours of unmolested activity, and Carnforth had no difficulty in getting to some of the liner's crew, and dispatching them, one by one, to assemble near the bridge.

P.J., left to himself, proceeded to tie some thick canvas round his legs, and procure a pad of the same material about a foot square.

With his eyes on his watch, he waited until the quarter of an hour was almost up, and then crept forward to the place where the hawser was made fast to two bollards on the liner's deck. A swift glance overside showed him the two men by the gun, and the second-in-command on the conning-tower, all with their backs to him, watching the rigging of the tackle for hoisting in the gold, near a big hatch that had been opened up aft.

He waited till a swift rush of feet near the bridge told him that Carnforth was rushing the guard on the

Captain's quarters. Then, placing the pad so that it formed a slip for his hands, and crooking his feet round the hawser, he shot down towards the submarine like a thunderbolt.

He was on the two men before they realised anything was amiss. One foot took the nearest in the small of the back, with a force that jarred every ounce of breath from his body and shot him off the narrow deck into the sea. The other man turned to meet the ham-like fist of a man who had been United Services champion for two years—and took no further interest in the subsequent proceedings.

With a lightning dive, P.-J. made for the quick-release of the training gear on the 15 pdr., and swung the gun on to the conning tower. Hearing the commotion, the second-in-command turned to meet the gaping muzzle pointing straight at him. Pausing only long enough to shout to the men on the after hatch, he disappeared through the conning tower hatch, slamming the watertight cover with a celerity that made P.-J. chuckle.

The submarine's deck had cleared as if by magic, and the after hatch had been shut down. P.-J. looked round for fresh fields to conquer, wondering what the next move would be.

He had not long to wait, for the next minute he felt an ominous tremor run through the steel deck under his feet. The sudden hiss of air rushing from the vents, as the forward tanks started to flood, told him all he wanted to know.

Without pausing to cast off, they were going to submerge under him, and wash him off the deck.

P.-J.'s mouth set grimly, and he did three seconds of furious thinking. There was only one thing to do; and that was to fire point-blank at the base of the conning tower. He knew that the chances were ten to one against his coming out alive; knew that, even if the shell in the gun was not fitted with an instantaneous fuse and did not explode on impact, he stood a very good chance of being killed by flying fragments. But, whatever happened, the submarine must not be allowed to get back into the enemy's hands.

P.-J. did not hesitate. Taking careful aim, and a firm hold on the firing pistol-grip, he pulled the trigger . . .

MEANWHILE, on the bridge, Carnforth had carried out his part of the daring programme, with equal success. The two guards, lulled into a sense of false security, had been taken by surprise and overpowered; and in less time than it takes to tell, the captain was issuing rifles, small arms and ammunition to Carnforth and his party.

Now that the menace from the 15 pdr. had been removed, events moved swiftly. One by one the guards, who had been posted all over the ship, were attacked and disarmed, without the alarm being given to the remainder of the gang, who were assembled outside the strong-rooms, to witness the triumphal entry.

These, too, were caught napping; and, with the exception of their chief and his American bodyguard, surrendered without resistance as soon as they realised the game was up. The latter two, however, were made of sterner stuff, or perhaps realised what was in store for them if they were taken alive, and decided to shoot it out. It was the liner's captain who shot the weapon out of the commander's hand, but the American had killed a second man and wounded a third before Carnforth shot him down.

It was at this moment that Carnforth remembered P.-J., and, leaving the party to secure the prisoners, he dashed on deck to see what had happened to him.

WHEN the smoke cleared away P.-J. found himself, much to his astonishment, still in one piece, gazing at a large hole in the conning-tower. The shell had passed clean through, tearing another rent in the far side, low down by the water-line, and had gone ricocheting out to sea.

The water, creaming from the vents a few minutes later, told P.-J. that he had been successful, and that the submarine crew were hurriedly blowing tanks again.

THE position was unchanged when, some hours later, a destroyer dashed on to the scene.

"Thank heaven you've got here at last, Tony," P.-J. greeted her skipper, as that officer stepped aboard, after seeing a prize crew safely aboard the submarine. "I was getting infernally tired of being a sort of combination Horatius and Jim Bludsoe. What delayed you?"

"Delayed me! I like that," said the destroyer's captain indignantly. "I very nearly burst a boiler getting here, you ungrateful hound!"

But P.-J. wasn't listening. He had spotted a large deputation, headed by the liner's captain, bearing down on him with, as he put it, congratulations written all over them.

"Let's go and have one while the bar's empty," he said hurriedly, and led the way below like a crack sprinter getting off the mark.

There was a merry scene of celebration that night. The submarine was being escorted to port and retribution, while S.S. Dramatic steamed on ahead, with her precious cargo still intact.

Everyone, of course, was curious to know how help had been summoned, and P.-J. was at last prevailed upon to explain.

"Chance," he said. "Pure chance. I have always been keen on wireless, and just lately I have been across to America to try out a new idea of mine. The whole 'box of tricks' is in those two suitcases I lugged on board.

"It so happens that Tony Richards, the skipper of that destroyer, is an old friend of mine, and I fixed up one of my sets in his cabin. I have been in touch with him all the time, by wireless telephony, mark you, right across the Atlantic.

"For those of you who know something about wireless I will explain roughly the idea. Up till now, the main trouble with telephony has been the power required to transmit any distance. But I have got over that, mainly by reducing the wave length. I have managed to get down to one and a half metres, which enables me to transmit nearly 3000 miles, with a battery small enough to be carried about.

"One of the main advantages is that no one, without one of my sets, can either hear or interfere with you. It is as good as a private telephone line! That is why our late visitors never knew anything about it. All I had to do was to tune in to Tony's receiver and say, 'Help! Help!' so to speak, like fetching the policeman on the beat. When he realised he couldn't get here in time, Tony had a seaplane lashed down on his deck, in the hopes of scaring those inquisitive gentlemen, but they refused to be scared.

"Anyway," he finished happily. "I owe that naughty old pirate a debt of gratitude!"

"Eh?" said Carnforth. "How come?" P.-J. grinned cheerfully. "Just think of the wonderful advertisement he's so kindly supplied me, free gratis and for nothing for the Pierce-Jones Private Wireless Telephone Company!"

"SHORTWORDS" OUR FASCINATING COMPETITION
£10 for Picking Ten Simple Words

T	O			A	U	F	F	S		
①	CHILD'S PLAYTHING		②	WORN LONG AGO						
	R	I	M		I	P				
③	DESCRIBES A PERSON			④	SMALL QUANTITY					
T	A			I	F	F				
⑤	ATTACHMENT		⑥	PERFORMED BY ONE'S NOSE						
D	R	A			L	I	D	E		
⑦	VEHICLE			⑧	MOTION					
	U	G		N						
⑨	VESSEL		⑩	CONTAINER						

Conditions of Competition No. 14

The ten little puzzles represent words as indicated by the clues, which are printed underneath each. Each square represents a letter, and where a picture is given the initial letter of the word illustrated is the missing one.

Write only one word under each picture. Entries close by noon, Saturday, November 28, at The Listener In Office. Send as many entries as you like, but each one must be on a set of pictures and filled in separately. All your entries must be enclosed in one envelope. Write your own name and address clearly in block letters on the back of the envelope.

Sign each entry in space provided on the coupon below the picture.

Write the number of the Competition (No. 14) on the envelope.

Each entry stands on its own, and in making a claim you must not say, "I have nine (or more) right" unless they are all in the same set of puzzles. If you have five right in one set and five right in another you cannot claim to have ten correct.

Keep a copy of your solutions. The correct words will be published in the issue of

Saturday, December 5, when you will be told how the prize is to be claimed. You may have to make a claim.

In the event of a tie the prize money will be divided. Should no person succeed in correctly placing all the words the prize will go to the competitor who has the greatest number of correct answers.

No responsibility can be accepted for the loss or delay of any entries. Proof of posting cannot be accepted as proof of delivery. Mutilated or altered entries will be disqualified. Competitors enter this competition on the distinct understanding that the Editor's decision is final and legally binding. The correct solution is known only to the Editor. The competition is run in conjunction with Table Talk, and entry forms from that journal may be enclosed with those from The Listener In.

Entries delivered by hand may be placed in the box in the vestibule at The Herald Office, 62 Flinders Street, Melbourne, or in the Competition Boxes at the RAILWAY BOOKSTALLS AT SPENCER STREET, ELIZABETH STREET, MAIN CONCOURSE, FLINDERS STREET AND PRINCE'S BRIDGE.

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ENTRY FORM

14

I (NAME)

ADDRESS

Enter The Listener In Competition No. 14. and agree to accept the Editor's decision, as final and legally binding.
 Address envelope No. 14 "Shortwords" Competition. The Listener In, Box 1861Q., G.P.O., Melbourne, C1, and put name and address on back of envelope. Envelopes may also be left at the Competition boxes at Railway Bookstalls at Spencer Street, Elizabeth Street, Main Concourse, Flinders Street and Prince's Bridge.



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