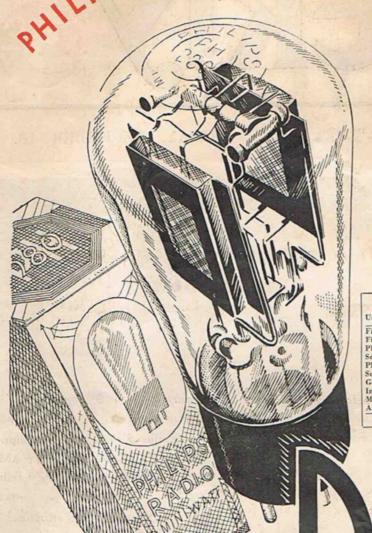


VOL. 18, No. 26.

(Registered at the G.P.O., Sydney, for Tranmission by post as a newspaper.) FRIDAY, DECEMBER 18, 1931



PHILIPS SET THE 1932 STANDARD



modernity in 2.5 volt Radio Valves. To the user it represents the latest scientific development of Philips-the standard by which radio valves must be judged. To the set constructor, the PH series offer a new field of radio enjoyment, incorporating as they do, the knowledge and achievement of the World's authorities on radio.

Friday

These modern tubes are designed to give sturdy and dependable service and to give to all American Sets the added punch and quality peculiar to the Philips 1932 standard.

	PH227	PH245	PH224	PH235	PH247
Use	Gen. Pur.	Power Amp.	Det. Amp.	V,Mu,	Pen- thode
Fil. Voltage	2.5	2.5	2.5	2.5	2.5
Fil. Current	1.75	1.5	1.75	1.75	1.5
Plate Voltage	180	250	180	180	250
Screen Voltage		-	75	75	250
Plate Current (M.A.)	8.8	32	4	9	32
Screen Current (M.A.)	-	-	(A)	(A)	7.5
Grid Bias (Volts)	12	50	1.5	1.5	16.5
Impedance (Ohms)	9,000	1,750	400,000	200,000	38,000
Mutual Conductance.	1	2	1	1.1	2.5
Amplification Factor	9	3.5	400	000	
PRICE	17/6	19/-	22/6	25/-	22/6

(A) Not over 1/3 plate current.

PH280

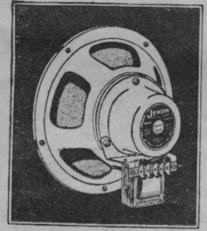
Fil. Volts 5 Fil. Current 2
A.C. Voltage per plate 350 D.C. Output Current 125 M.A.

PRICE 15/-.

PHILIPS

(Adet of Philips Lamps (Australasia) Ltd. (Radio Dept.) Head Office and Showrooms, Corner Clarence and Margaret Sts., Sydney, N.S.W) 1R.46

Sweeping ! Australasia!



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Model D9 10in, Cone

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Send for New Catalogue 48

INTERNATIONAL RADIO COMPANY LTD.

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A "Kriesler" Product!!!

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224 S.G.

235 Variable Mu (2)

247 Pentode 280 Rectifier

CHASSIS, VALVES and DYNAMIC,

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RETURN POST SERVICE

Volume 18, No. 26. Friday Dec. 18,

Wireless Weekly

Address: Box. 3366PP, G.P.O.. Sydney

Introducing SOME 2UE PEOPLE

POPULAR PERSONALITIES HEARD ON THE AIR



SUE Radio Aunts and Uncles.—Simple Simon and his merry band: Aunt Willa, Mr. C. V. Stevenson, Auntle May, Uncle Res, "Ambrose," Auntle Kath, and Auntle Maud.

HOW UNCLE HUGHIE GOT HIS NAME

UNCLE Hughie,"
Mr. C. V. Stevenson, was so christened by one of his little listeners at the children's session. Hearing her mother say, "I'll tune in lought thought thought thought the name which has since become so popular.

Mr. Stevenson was the first person to be granted a B Class broadcasting licence. That was in November. 1924, and he started to operate 2UE on January 26, 1925, since which date he has continued an uninterrupted service.

S INCE the inauguration of Station
2UE seven years ago, the station
has grown from a small 50 watt
outfit to one of the largest in the
State, for the new station about to be
erected at Lilli Pilli will be second to
none both in power and quality.

Station 2UE, from its commencement has been continuously under the management of the proprietor, Mr. C. V Stevenson, and the staff has grown with the station until it includes ten announcers, as well as engineers and clerical staff. One of its features is its sporting service. It was first to introduce descriptions of pony racing. Incidentally Mr. Melville, who now describes these races so vividly, is counted by many to be the best racing announcer "on the air."

Throughout the last lootball season, all the big matches were broadcast, and the popular announcer, Mr. Si Meredith, received congratulatory messages from all over Australia and New Zealand.

An outstanding feature of 2UE's programme is the Old-time Dance Night. These dances are held fortnightly, and have become so popular that the station could easily allocate 2000 tickets to each dance if room were available. As it is, the attendance has to be limited to one thousand, and there is always a waiting list of from two to three thousand people anxious to attend. Rex Albert's Radiolans' ten-piece orchestra provides the music, and the station receives many letters from other States and from New Zealand listeners saying how much they enjoy the broadcast of these Oldtime Dances.

2UE was the first station to start a Theatre Entertainment Club in this State and the membership is now 5000

Mothers—and fathers, too—are loud in their praises of Auntle May (Mrs. Pilmer), who conducts the women's and children's sessions on Station 2UE. Her voice is remarkably clear and sympathetic, and adults and children alike all adore her. Her bedtime story session is a fitting termination to a youngster's day of school and play.

Simple Simon (Mr. Si Meredith), who has firmly established himself as the practical joker of the radio pack, is a combination of brother, uncle, and father to tens of thousands of juvenile radio faces.

If you have attended or listened-in to the 2UE Radio Party on Saturday morning, you will appreciate Simple Simon's spontaneous and ready wit, and also his wonderful control of the children. He is also very popular with his "big kids," as he calls the mothers and fathers

Mr. Arthur Carr—"Ambrose"—is a newcomer to the radio field, but he nas come to stay. For years he was a popular figure on the legitimate stage, and specialised in children's entertainment. He now joins in the 2UE Radio Party on Saturday mornings, and his antica are the cause of the great bursts of laughter you hear from your loudspeaker. He calls himself Beautiful Ambrose—the nuisance of the party.

WODIRILID - WILIDIE IRANDIOD

SETLESS and SIGHTLESS RADIOS

NTER, thet "setless" and "sightless" The first consists simply of a loud speaker of special design that would be fed a choice of several programmes via telephone or electric power lines from a central receiving station. Proposed by Captain P. P. Eckersley, former chief engineer of the British Broadcasting Corporation, this system does away with the need of sets or tubes in the home, and is somewhat

> STOP ALL BROADCASTING TO TEST WEATHER THEORY

ECHOES of the day not long ago, when certain self-selected soothsayers blamed the drought on radio waves, and asked weather bureaus to declare a moratorium on all radio transmission, have been heard by the League of Nations. Someone has written to Geneva, asking that all European broadcasting be stopped for five or six weeks, to determine whether radio is respon-sible for the prevailing wet weather. The signer of the letter urged the appointment of a "competent commission" to make observations of the climate conditions during the radio-less lull, and then to publish a report that would either condemn or acquit the radio waves.

like the "wired radio" system frequent-

ly discussed in this country.

The "sightless" radio is an actual accomplishment of an American manufacturer and is now on the market. Receiver or combination radio-phonograph unit. with or without furniture housing, may be hidden away out of sight or built into a wall. A walnut-finish control box, 10 inches long and weighing only one pound, has a series of push buttons which will start or of push buttons which will start or stop the radio or phonograph, adjust their volumes, switch on or off any one of four loud speakers, and tune any one of eight stations. The control box is connected to the instrument by a flexible cord or may be built into the

Beyond The Ultra Highs

(OING beyond even the so-called ultra-high frequencies, the International Communications Laboratories, Hollsborough, N.J., unit of the I.T. and T. Co., has asked the Federal Radio Commission for authority to erect two transmitters to operate between 1,000,000 and 3,000,000 kilo-cycles-small fractions of 1 metre. A European subsidiary of LT. and T. recently conducted tests with high frequency voice transmission across the English Channel with favorable results, but these are the shortest wave langths over sought from the wave lengths ever sought from the authorities.

High Power for U.S.

THE U.S. Federal Radio Commission has just licensed nine stations for 50,000 watts power and seven to 25,000 watts. There were 20 applications for the higher rating.

Swedish Anti-Fade Device

NROM Stockholm comes a report that K. E. Ylander, Swedish engineer. of Ostersund, has perfected and successfully demonstrated a fading compensator that can be attached to radio sets to eliminate the fading out of programmes from distant stations.

Must Declare Radios

MOTORISTS with radios attached to their cars must announce this fact Customs officers in going into Canada, and also pay a fee of one dollar. The fee is required for all radios in the northern country. It may be paid through postmasters in the larger cities and towns. After touring Canada motorists should call attention to the radio so that it may be checked off their Customs permit.

Giant KW Tube in London Display

EXCEEDING even the gian six-foot tubes used by KDKA, Pittsburgh, tubes used by KDKA, Pittsourgh, in testing radio powers up to 400,000 watts, the highest ever used in broadcasting is the 500,000 watt tube that has been constructed for the British Post Office Department's Transatlantic station at Rugby. Described as "a continuously evacuated valve," the British tube, a giant counterpart of the ordinary receiving set tube, but used only for high-power transmitting purposes is said to be the largest in the poses, is said to be the largest in the world. It was recently displayed at the Faraday Exposition in London by the Metropolitan-Vickers, Ltd., its manufacturer.

Photographs of the tube reveal that it stands not much higher than a man It does not stand as high as the Westinghouse tube but appears to have at least double the diameter. Claims made for it far exceed those for the Westinghouse tubes, which are rated at 200,000 watts. The latter are rated as 200 times as powerful as the tubes used in the average radio station and 50,000 times as powerful as ordinary receiving tubes. Westinghouse has conceiving tubes. Westinghouse has conducted its super-power experiments after midnight on the KDKA wave



How to

tune in

the



On the Left: Mr. Scullin broadcasting his policy speech from SLO Melbourne at the opening of the campaign.

Below: Mr. Lyons giving the U.A.P. polias speech from the same studios,



Before turning to the list of candidates beginning on Page 14, read how the results will go over the air.

N election night, Saturday, December 19, New South Wales listeners will be able to choose from five separate broadcast services—2FC, 2UW, 2GB, 2KY, 2UE.

As everyone knows, returns from every electoral district are sent progressively by telegram to the main tally room at the Sydney Post Office. Here they are checked, added, and filed, and the progressive figures for each district are chalked up on a huge blackboard in the press room, where reporters sit at a long table, clutching telephones with loving hands, and calling the numbers through to their papers figure by figure, as they are chalked up. The broadcasters have been granted rooms adjoining the tally room, and microphones have been installed, connected direct to the studio by landline. station has its staff to compile lists of the figures and to calculate from time to time the position of the parties. first return usually arrives at about 8.20 p.m.; and returns then arrive slowly till about nine o'clock. From nine o'clock till midnight the figures change almost continuously, after which the result of the election is generally pretty firmly established.

The description from 2FC, Sydney will be given by Mr. H. P. Williams, who will be on the air at 8.20 with the first return, and every fifteen minutes

thereafter. After 10.30 p.m. 2BL also will broadcast Mr. Williams' description, and the broadcast will continue from both stations till 1.30 a.m., Mr. Williams will sum up the position throughout the Commonwealth. Similar broad-

GOULBURN'S BROADCASTER A NEW STATION.

A NEWs broadcasting station will be opened at Goulburn, N.S.W., this month. It will be owned and operated by the Goulburn Broad-casting Co., Ltd. A contract has been entered into with Amalgamated Wireless to manufacture and instal a transmitter of the most modern design, which will deliver a carrier wave to the acrial of 50 watts, capable of being modulated 100 per cent. The transmitter is being installed on a block of land about two miles from the Goulburn Post Of-A clear view in all directions is obtained from the site, so that there will be very little absorption. The two masts supporting the aerial are 160ft, high and 428ft, apart. The new station will operate on a wave of 215.827 metres (1390 kilocycles), and should give a very effective coverage to Goulburn and surrounding districts. Amalgamated Wireless will act as advertising agents in Sydney and Melbourne.

casts will be carried out by 3LO, Melbourne; 4QG, Brisbane; 5CL, Adelaide; 6WF, Perth; and 7ZL, Hobart.

A most complete service has been arranged by 2UW, which will relay a description by Tom Gurr, junr., through 4BC, Brisbane; 3DB, Melbourne; and 5AD, Adelaide, from the Sydney tally room. This station will also be in trunk-line communication with the tally rooms at Brisbane, Melbourne, and Adelaide, so that the earliest possible information from all States may be received in Sydney and transmitted immediately through the interstate bookup. Messrs. E. H. Collis, E. G. Knox, and G. H. Goddard, all experienced political journalists, will help to complie this service, and possibly a late summary will be given by Mr. A. M. Pooley. The service may also be relayed by country stations, and even so far north as Townsville. It will continue till about 145 on Synday marning.

1.45 on Sunday morning.

As usual, Mr. George Saunders will give 2GB's description from the G.P.O tally room until about 2 on Sunday

morning.

From 2UE a very lively programms has been arranged for the occasion, with "Si and Maud," "Ambrose," Harry Hayes, novelty pianist, and Dick O'Donahoe, singer, between broadcasts of returns.

Until 2 a.m. on Sunday, 2KY will broadcast the returns direct from the tally room.

2FC and 2BL Features Before and During Christmas

FRIDAY, 18th
Concert Programme, Musical Association
of N.S.W., 8.0: 2FC.

SATURDAY, 19th

Results in the Federal election will be broadcast as received: 2FC. "The Messlah," Welsh Choral Society, 8 o.m.: 2BL.

SUNDAY, 20th

Concert programme, arranged by Ronald Marston, 3 p.m.: 2FC.
Concert programme. Bondi Beach Symphony Orchestra, 8.30 p.m.: 2FC.
Orchestral programme, relayed from 3LO (Melbourne), 8.30 p.m.: 2BL.

MONDAY, 21st

Community singing from Ashfield Town Hall. 8 p.m.: 2FC. Wienlawski "Concerto in D Minor." Cyril Monk (violinist), in association with the National Broadcasting Orchestra, 9.6 p.m.: 2BL.

TUESDAY, 22nd

Radio Dance Night, A.B.C. Dance Band, 8 p.m.: 2FC.

Heur of Christmas music from the Presbyterian Assembly Hall, Scots Church, 8 p.m.: 2BL.

"A Message from Mars," A.B.C. Players, 9 p.m.: 2BL.

WEDNESDAY, 23rd

Dee Why and District Choral Society, Howard Carr conducting, 8 p.m.: 2FC. "Banjo" Paterson in reminiscent mood, 8.14 p.m.: 2BL.

THURSDAY, 24th Waratah," Australian Xmas pantomime, am.: 2FC.

FRIDAY, 25th

Band programme, Bondi Beach Concert Band, 8 p.m.: 2BL. Hurlstone Park Choral Society, V. Peter-son conducting, 8 p.m.: 2BL.

SATURDAY, 26th

Musical hour, featuring A.B.C. Cctette and the A.B.C. Orchestra, 8 p.m.: 2PC.

Waratah

MR. FREDERICK WHAITE, radio musicomedy, "The Tin Soldier." was so successful recently, is as good as his word. He said then that he would have an Australian pantomime ready for Christmas; and it is ready now, and has been in rehearsal at the A.B.C. for the past several weeks. Now, Mr. Whaite wants to make it quite clear that this is a dyed-in-the wool Australian pantomime, and breathes the delightful atmosphere of this fair land of ours, and no other atmosphere. For Mr. Whaite is an Australian composer. and learned his art in this country. He began as a boy, reading play "books" for the scenes his father, then the best scene-painter in the country, was to illustrate; and this bred in him an understanding of stagecraft and the other black arts which one has to understand if one is to write musical comedies. Then he studied pianoforte, and very soon was composing little songs and dances of his own. By himself, he has picked up a very considerable knowledge of harmony and counterpoint, and his wide experience throughout Australia as a conductor of theatre orchestras has finished his knowledge of every point which goes to make a suc-cessful production. It is not easy, al-though it may look easy, to write a good "song-success"; and it is quite as difficult to write the words. Anyone can imitate a popular song; but very few who have not served their time to

JBJEJ [NXY EJEN YYODIUL

the craft can make either the words or the music sound other than gawky and unnatural. That is why you have to hand it to Mr. Whaite-he writes good songs, and he writes both the words AND the music. Also the play. From his fertile imagination has proceeded the story of "Waratah." It is a story of a Princess who desired the ultimate good, and came to Sydney to find it.

That, according to Mr. Whaite, is what the Royal Historian of Fairyland says in chapter ten of the fifth Book of the Doings. The King and Queen of Fairyland were having breakfast in the Loowie Cans room of the Imperial Picture Show, London, when in comes the beautiful Princess Waratah, weeping, wailing and gnashing all her teeth (at.other Nash). This perturbed the King so much that he upset the marmalade all over his new robes of state, and a royal time they had scraping it off again, and he said:

"Weep not, my daughter-Beasley hasn't got a hope."

"That's not it," said the Princess, continuing to gnash.

The Queen, naving now digested an impolite slice of bacon and egg, remarked: "Those beastly Communists are at the bottom of it."

"That's not it," said the Princess, weeping miserably.

"Can she possibly have seen Mr. Lang?" asked the King.

"That's not it." said the Princess, and wailed woefully all over the car-

"Then let us have a truce to guessing competitions," said the King, growing angry. "We must not be mistaken for a "B" class broadcasting station."

Upon which the Princess dried up considerably, and took her seat and sat upon it, after which she spoke:

"Well, it's like this-It appeared that the beautiful Princess Waratah craved for only one thing, that was for the Greatest Treasure in All the World. (And here listeners will observe a cersimilarity between fairy princesses and ordi-nary women.) When the desire of the Princess was made patent to the King he was heard to mutter: "Anything for a quiet life"; and he called in the Court Magicians. The Magicians withdrew, and did certain things; then they returned and informed the King that the Greatest Treasure in All the World was to be found in the Heart of Aus-

What do you think of that for a subtle guess?

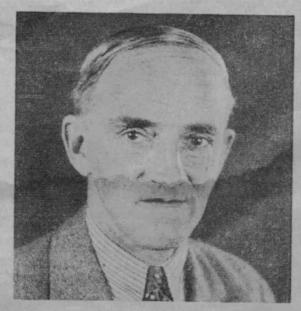
Well, the King asked for an atlas, and his Grand Vizier pointed out where Australia was; and the

King and the Queen and the Princess and all the Royal lly, including the Grand Vizier, the Chief Chamberlain, the Chief Chambermaid, the Chancellor of the Exchequer, the Minister for War, the Poet Laureate, the Vice-Regal Patronage, and the Vice-Regal Tobacco (medium strength) were transported to Sydney in the twinkling of an eye (just too late for the elections); and here they were. And what a noise their coming made at Potts Point; and what a fluttering there was at Darling Point; and didn't they jump about at Rose Bay! And how they fought for tickets in the better class areas of Kirribilli! You'd almost have thought the Balokovics had returned-you would

But after the junketing and gatecrashing had a little subsided, and the King of the Fairles had told the last pressman who thought it was worth while to call his views on the Harbor Bridge, Sydney's Bevies of Sun-tanned Beauty, the Sheep's Back being What We Live On, and whether a Girl should Kiss a King Before or After Meeting, a difficulty rose and stood in the way. It was discovered that the keys to the Greatest Treasure in all the World were held by a big, bad, bold black giant called-

Now, the reader is asked not to allow his political prejudices to interrupt the smooth flow of the story. The Treasure was NOT in the New South Wales Government Savings Bank.

Called Boolaboo. The giant's name was Boolaboo. He had two hands, two eyes, AND two legs; but only one nose. When he walked he wobbled. So the King decided the only way out of the difficulty would be to publish a procla-



FRED WHAITE, author of the Christmas pantomime, "Waratab."

SINHIE MIIIOZIRODIPIHIODNIE

mation that whoever found and secured the Treasure would receive the beautiful Princess Waratah to be married to; and would thereafter rule the land (and presumably the Princess) with a magic

In the meanwhile the Princess had not been idle. Not a bit. She had joined the Sydney Hikers' Club, and it was during one of her solitary jaunts in the Kurrajong district that she met Beanstalk Jack, and fell in love with him. He was a pleasant young man, whose only fault was a tendency towards social climbing, as you will find later on in the stery. Jack had an orange farm near Kurrajong, where he lived with his Mother Hubbard and his sister Jill, and when he saw the proclamation he decided to find the treasure. But what happened? What do you think Boolaboo was doing all this time? Do you think he was satisfied with just controlling the Upper House? Not him. He, also, had read the proclamation, and he decided that the only way to get control of the Commonwealth was to kidnap the Princess. A daring scheme? That's nothing. You should have seen what he did to the price of bread.

There is not space to detail the several important scenes which follow, not even the final scene, in which the Haroven the final scene, in which the har-bor Bridge opens, and all the children march across, singing "How do you do. North Sydney?" the greeting from the South to the Notth. It is enough that listeners to 2FC on Christmas Eve may hear the entire production, directed by Laurence Halbert, musical ensembles arranged by Madame Grieg, A.B.C. Orchestra, conducted by E. J. Roberts.

"The Messiah"

THIS Saturday night, from the Sydney Town Hall, 2FC will broadcast Han-s "The Messiah," with 700 voices the Welsh Choral Society, conducted by Dr. Cyril Jenkins, and led by Ida Turn-bull, soprano, Marie Gordon, con-tralto, Fred. Williamson, tenor, and Oliver King, basso. Mr. Ewart Chapple will be at the organ, and Mr. Lloyd Davies will lead the orchestra.



MR. LIVINGSTONE MOTE, who has arranged the hour of Christmas music on Tuesday.

Howard Carr

A CONCERT programme by the Dee Why and District Choral Society under the direction of Howard Carr will appeal to all lovers of choral music from 2FC and 2NC on Wednesday night, December 23. Howard Carr is a distinguished conductor and composer, being particularly well known for his settings and quaint old traditional and nautical songs. Mr. Carr conducted the London production of "The Lilac Domino," to which he contributed several numbers, and has conducted and arranged numerous programmes from 2FC and 2BL.

Message From Mars

A N hour of Christmas music arranged by Livingstone C. Mote, M.A., will be broadcast from the Presbyterian Assembly Hall, Scots Church, by 2BL on Tuesday, and will feature the appearance of the Scots Church Choir; and will be followed by "A Message From Mars," a fantastic comedy in three acts. by Richard Ganthony, presented by the A.B.C. players directed by Laurence Halbert at 9 p.m. The story tells of Horace Parker, a young scientist, who is the very personification of egotism In the opening scene Horace has promised to go to a dance with Minnie Templar, his adopted sister and fiancee but in the end refuses to go. Minnie is quite willing to give up her own pleasure to satisfy Horace's every whim but Aunt Martha is determined that her nephew shall not have matters all his own way, and herself takes Minnie to the dance. Horace, left alone by the fire, is drowsing, when suddenly he becomes conscious of another presence in the room-a stranger has entered, and announces that he has come from the planet Mars.

Cyril Monk

A N outstanding feature from 2BL on Monday will be the Wieniawski "Concerto in D Minor" played by Cyril Monk in association with the National Broadcasting Orchestra conducted by Broadcasting Orchestra conducted by E. J. Roberts. Mr. Monk will also play the "Sjogren Sonata" with Haagen Holenbergh, the well-known Danish planist. Adam Wieniawski was a Polish composer, born at Warsaw in 1876. He was a pupil of Noskowski in his native town of Bargiel, and of Faure in Paris. Sjogren, the Swedish composer and organist, was born at Stockholm in 1853. He studied at the Royal Conservatorium there and the Royal Conservatorium there, and later in Berlin. As a composer he was a follower of the romantic school, and his sonatas and pianoforte compositions

3LO and 3AR Features Before and During Christmas

A symphony concert—the A.B.C. Wireless Symphony Orchestra, conducted by Percy Code, assisted by Alexander Sverjensky, pianist, Alexander Raff, bass, To be feat-ured, Rachmaninoff's Concerto No. 2 in C Minor for Piano and Orchestra; 3LO, 5t 8

SATURDAY, 19th

Election night! The programme will be devoted to the broadcasting of the paramount item of interest to the Australian public-viz, the progress counts in the Federal elections: 3LO, at 8 p.m.

SUNDAY, 20th

SUNDAY, 20th

Alexander Sverjensky, pianist, in a short
Chopin recital—the Melbourne Philharmonic Society—J. Howlett Ross, "Last Days
of Herculaneum," with incidental music
by Arnold Coleman at the organ: 3LO,
at 8 p.m.

Special performance of "The Messiah."
by Handel. Sung by leading English soloists and the B.B.C. Chofr, with Orchestral
accompaniment. The whole performance
under the direction of Sir Thomas Beecham: 3AR, at 4.30 p.m.

MONDAY, 21st

MONDAY, 21st

A cameo of the famous opera, "La Traviata" (Verdi). All the familiar airs and selections, sung and played by Gladys Verona, aoprano, Tom Downie, tenor; J. Howard King, bass-baritone; and the A.B.C. Concert Orchestra, arranged to clearly tell the story; 3LO, at 8 p.m. "No Admittance Except on Business," a broadcast description of the Chief Telegraph Office, Melbourne; 3LO, at 9 p.m.

TUESDAY, 22nd

Modern dance night, with Paul Jeacle and his Radio Dance Band; interludes by vocal artists: 3LO, at 8 p.m.
"Tilly of Bloomsbury." a comedy in three acts by Ian Hay; produced by Frank D. Clewlow; 3AR, at 8.20 p.m.

WEDNESDAY, 23rd

"A Magic Christmas Eve," a children's play, by Violet Parkinson; for kiddies by kiddies; 3LO, at 6 p.m. Choral and orchestral programme by Bartleman Male Choral Society and the A.B.C. Concert Orchestra; also a plano recital by Alexander Sverjensky; 3LO, at 8 p.m.

THURSDAY, 24th

THURSDAY, 24th
"Scrooge," adaptation from Charles
Dickens' "Ohristmas Carol," produced by
Maurice Dudley: 3LO, at 8.40 p.m.
"Princess Waratah," an Australian pantonline by Fred, Whaite; presented by
A.B.C. Musical Comedy Company. Two
acts and twelve scenes. Place Aistralia;
time, in the Good Old Fairy Days. 3AR,
at 8 p.m.

FRIDAY, 25th

Special Christmas Night programme—
Christmas carols; an organ recital by Dr.
W. G. Price: "The Story of the Carol," by
J. Howlett Ross; the Majvern Tramways
Band, and vocaliats: 3LO, at 8 p.m.

SATURDAY, 26th

"December Doings," a decorous, defi-and dainty delivery from a distance of delightful digressions, droll doggerel, drams, and dislogue, devised and dished-up dexterousiy by Frank D. Clewlow: 3LO, at 8 p.m.

at 8 p.m.

Special carol service by St. Paul's Cathedral Choir, at the organ, Dr. A. E. Floyd, Mus. Doc.: 3AR, at 8 p.m.

are greatly admired. The assisting vocalists will be Barbara Russell (soprano), who has chosen a group songs by Phyllis Norman-Parker her first appearance, and Clifford Lathlean (basso), whose items will include a group by Brahms.

Christmas Services

THE service will be broadcast by 2FC from the Central Methodist Mission, Lyceum Hall, where the Rev. R. J. Williams will conduct the service, assisted by the Rev. A. J. Gould, and by 2BL from St. Mary's Basilica, where the Rev. J. McCooe will be the celebrant.

Wireless Weekly

Sydney: Friday, December 18, 1931.

ANOTHER LANG PLAN

In another place we print the reference to broadcasting by Dr. Earle Page in his policy speech; a particularly sound statement of what most listeners want. On the other hand there is the Lang radio plan, which stands in direct contrast to Dr. Page's views.

The scheme of which Mr. Beasley spoke in Mr. Lang's policy speech provides that licence fees shall be reduced to ten shillings a year, collected by the Commonwealth, and paid proportionately to the State Governments; and that all the "A" class stations shall be "nationalised" under the control of the State Governments. When you consider that "A" class broadcasting stations are already nationalised under the Commonwealth Government, you begin to observe a contradiction in terms. Obviously, to take broadcasting stations from the nation, and give them to the States, is denationalisation. What Mr. Lang wished to do in Mr. Beasley's policy speech was to give the impression that his party would do the democratic thing and fulfil the Labor policy; what he wished to gain under cover of that impression was three powerful broadcasting stations in New South Wales, 2FC, 2BL, and Then New South Wales 2NC. listeners could scarcely help hearing what a fine fellow Mr. Lang was, every night in the week, including Sunday.

So audacious a Lang plan can scarcely be expected to succeed; but since it proves that Mr. Lang wants a powerful broadcasting station it has given birth to rumors that, if the Beasley party fails in the present election, Mr. Lang will defy Commonwealth regulations and set up his own State transmitter. If he does this (and he has given ample proof of his ability to try everything unsuccessfully), there will probably be a long and wearisome battle in the law courts, since the right to control broadcasting is not stated specifically in the Commonwealth constitution. It is a small point; but the sooner the Commonwealth takes steps to alter the constitution in this regard, the better it will be for listeners, broadcasters, and the nation.

DR. KEITH BARRY,

the well-known music critic, who is giving a talk on Christmas carols on Christmas Eve.

Butter and Butter

"THE Butter you can Cut with your Knife" will be the title of the talk by R. E. Figgis, Vice-President of the New Health Society, on "Better Food for Better Health." from 2FC, at 6.45 p.m. on Saturday, December 26.

This talk will deal with the virtues and value of cheese, an Australian product, which is not as widely appreciated as it might be. Cheese is of great value by reason of the calcium it contains, and is particularly beneficial to the growing boy and girl who are not obtaining as much milk as is essential to their welfare.

English Language Talk

"CHARLES Dickens and Christmas" will be the title of the English Language Talk by R. M. Crawford, B.A., from 2FC, at 6.45 p.m. on Thursday, December 24.

Dickens is an obvious Christmas author, not only for his Christmas carols, but also for the spirit of all his work. He has the two essentials of Christmas—its festive spirit and its humanity—its plum pudding and its goodwill to men. The former is the manifestation of the latter. The winter Christmas of England suits his art because the glow of the fire within and the winter without, gives him the same sort of contrast as cheerfulness and surliness.

STORIES of the CHRISTMAS CAROLS And Other Talks

DR. KEITH BARRY will tell "The Story of Christmas Carols" from 2BL at 445 p.m. on Friday, December 25.

at 445 p.m. on Friday, December 25.

Very few people who hear Christmas carols sung on Christmas Day know very much about their origin and history. It will surprise many of them to know that a carol was really a dance accompanied by song, in its original meaning. This, and many other interesting points will be explained by Dr. Keith Barry in his talk on Christmas Day. For this talk Dr. Barry has collected stories grave and gay about Christmas carols, among which is a rather dramatic little story of a Christmas carol sung in the trenches.

Christmas Here and There

MR. C. PRICE CONIGRAVE, by reason of his long residence in the little known parts of Australia, has the outlook of the bushman and outbacker, and the talk entitled "Christmas Here and There," which he is to give from 2FC on Christmas night (December 25), at 6.40, should, therefore, be of special interest. He will describe to listeners some of the places where he has spent Christmas Day in years gone by,—on lonely islands—on the fringe of the great inland desert—and elsewhere here and there throughout the Continent.

The Carribean Islands

COMMANDER C. H. ROLLESTON, R.N. (Retired) will tell listeners of "The Caribbean Islands" from 2FC at 6.30 p.m. on Sunday, December 20. These islands occupy waters that were much used in the course of trade by all the European nations in the latter half of the 18th century. Many of the islands possessed useful 'anchorages, and provided valuable bases for the fleets of those days, and consequently changed hands with great frequency as the nations, anxious to acquire possessions in the new world, enjoyed temporary supremacy.

Trinidad, the largest and most southerly of the Caribbeans, may perhaps be taken as typical of them all, as it lacks no feature of beauty or interest that can be found in any of the others.

SDAY, DECEMBER 23.

DECEMBER 24

8.15 a.m. 12.30 p.m. 4.30 p.m.

8.15 a.m. 12.30 p.m. 4.30 p.m. 11.0 p.m.

6.0

DAY.

Schedule for 2CO Corowa

THE new relay station, 200, at Corowa, about 300 miles from Sydney, and not far from Albury, is relaying the programmes of 3LC and 3AR. The station is the most modern of its kind in Australia, and cost £20,000 to build. It has a power of 7.5 kilowatts in the aerial The wavelength is 535.7 metres. The programme schedule is as follows:—

SUNDAY, DEC 11.0 a.m. to 12.30 p.m. 1.0 to 3.0 p.m. 3.0 to 4.30 p.m. 6.0 to 10.30 p.m.	See 3LO. See 3AR	10.15 p.m. to WEDNE
7.30 a.m. to 8.18 a.m 10.30 a.m. to 12.30 p.m 1.0 p.m. to 4.30 p.m 5.40 p.m. to 6.0 p.m	See 3LO See 3AR See 3AR	
7.30 a.m. to 8 15 a.m.	CEMBER 22. See 3LO.	

SANFIETTY WANTE

The pressure gauge of public opinion

A Racing Service Worth While

Dear Sir,-There has been quite a deal of correspondence re programmes from the various stations, but I think the palm should be handed to 2UE for the excellent service that this station rendered to the racing enthusiasts last Sa!urday, November 28.

They broadcast each event from Warwick Farm and also gave a splendid idea to the listeners by ringing a gong when each race was started from the ponies, and almost immediately the race was over announced the winner. They also dispensed between races a musical programme.

Now why can't we get something like this from A class stations, who get some monetary consideration from the lis-teners. When the ponies are on in the mid-week the A class stations take about 10 minutes to give the results, and their organisations should be able to do a lot better than they do.

Now, you racing listeners, give a boost to the station that gives you such a wonderful result.—Yours, etc..
"WELL-WISHER."

Darlinghurst (1.12/31).

4QG in Fiji

Dear Sir,-I have read in the "Safety several times complaints from listeners-in regarding reception of 4QG It might interest listeners in Australia to know that 4QG is mushy in Fiji, due to overlapping by a Jap station. Not being a radio expert precludes me

from expressing an opinion in regard to this, but all sets here (about six) have the same trouble. Immediately 4QG shuts down (12.30 p.m. here) the Jap. roars in. It is possible with a Grebe 5 to have both stations working together I mean to hear a musical item from 4QG and the Jap. giving his blah-blah. It amuses me at times to read denun-

ciations of various stations by your cor-respondents in regard to bad nights. At least, I always put it down to a bad night when a station refuses to come in. not to the transmission engineers, the announcer, or the poor programme directors. By the tone of your correspondents it would appear that the listener-in in Aussie has been fraudulently dispossessed of his licence cash. With so many stations on the air it seems ridiculous to think that any person even possessing a modest crystal set cannot tune-in to one item that interests him. If some of your Disgusteds, Pro Bono Publicos, etc., could put in a week here and try to pick up a station they would be jolly

glad to listen to what was going on.
"Justice" ("Safety Valve," 9.10.31) has
a proper moan on about his dinnermusic, and I don't blame him. This dinner-music stuff should be cut out and also the children's session. Probab'y would appreciate the evening session then, if he only had two hours at night instead of all day. I consider it creditable that programme compilers can put on a show from 8 a.m. till 10.30 p.m. day after day and make such a varied daily assortment of items at a cost of less than one penny per day for listening

Fair play is bonny play.-Yours, etc. VINAKA LEON. Lautoka, Fiji (24.11.'31).

English Elsewhere

Dear Sir,-Re "M.H.R.'s" letter ("W.W.," Nov. 27), in which he points out that English is understood in most short-wave listening countries of the world, I am inclined to agree with Mr. Fraser, his adversary, in this, that the only foreign overseas station that I have heard depart from its mother tongue to use English is Radio Saigon. None of the nearer Dutch E.I. stations speak it, nor have I heard it from FYA, and apparently we are condemned to remain in ignorance of the items broadcast from What an opportunity for propaganda Lenin is missing in not putting an English speaker on, as the fine music must attract a large audience in the Pacific basin

Some months ago I wrote to RV15 and Radio Saigon, and reported on reception, enclosing international reply coupons, but received no replies, suggesting that English is not well understood up North

As regards the second part of M.H.R.'s" letter, perhaps the new Wire-"M.H.R.'s" letter, perhaps the new Who-less Board will make an arrangement with A.W.A. to broadcast the "A" sta-tions' programmes on the higher-fre-quency stations.—Yours, etc., "EARNEST."

Northgate, Q. (30.11.'31).

2FC Weak in Brisbane

Dear Sir,-In your issue of December 4 you state that the programmes of 2FC and 2BL have been changed. May I now appeal to the A.B.C. that the sporting session be returned to its original time, if not a little later? In Brisbane the reception of 2FC is very weak about 7 p.m., but is quite good about 7.30 p.m. The session is of special interest to

I would also like to make a suggestion to the "B" stations about the announc-ing of records. If they announce the full particulars first, then after it has finished give the name only. I think they would find it more satisfactory to listeners who tune-in after the record has started. I wish they would do it in Brisbane anyhow.

I often read the comments of listeners on the Sydney stations. All I say for them is to come to Brisbane, and they would have reason to complain. As was so truthfully said, 4QG's programmes are the same as you would expect at an old village concert.—Yours, etc.,
"I.L.P."

New Farm, Brisbane (4.12.31).

The Caudle Lectures

Kirribilli (4.12.'31).

Dear Sir,-In your current issue notice an article by Mr. Ellis Price in which he refers to the "Caudle Lectures," and expresses surprise that these have not been heard over the air. For the last five years Miss Windle and myself have broadcast these lectures under the title, "Poor John" or "Caudle Up-to-date." It is flattering to realise my version has been so original as to be unrecognised.

Caudle lectures, in their original form in my opinion, would be old-fashioned and tedious. It took me many months to re-write and build-up my version which I did by courtesy of the owners of copyright.-Yours, etc.,

J. WIN.

"W.J.J." Replies

Dear Sir,-Having "bought" a fight by criticising the dismal and unpalatable "A" class programmes, I have pleasure in standing up for the second round.

Mr. A. C. Massey has butted in on behalf of the "poor country listener." and desires a continuance of the rotten value in return for licence fees. We pay nothing towards the upkeep of "B" class stations, and as we make the "A" class "punk" possible by paying for it, we certainly have a right to criticise.

I say emphatically that my circle of wireless friends is large, and, without a single exception, they are unanimous in condemning the "A" class piffle with which the air is polluted. Screeching amateurs, misguided and ill-trained musicians, "punky" and jokeless comedians, are forced upon us, and we pay

The absorption of the whole time, or practically so, from 7 a.m. to 7.45 a.m. with newspaper news is wicked. I do not object to country people getting the news, but I certainly take exception to our newspapers being rendered partially valueless by news being broadcast at that early hour. What difference would it make if the aerial distribution of news was postponed until 8 a.m. or 9 a.m.? It is a wonder to me that the newspaper people allow the broadcast of news before subscribers have purchased their papers, and I personally know of many cases where the morning paper has been dispensed with and the news taken over the air.

My desire is a musical session from 7 a.m. to 8 a.m., then tell the country people the news as long as they desire. A newspaper is something to look forward to, but it is robbed of its value if one is told of its contents beforehand. Then why not dispense with it and save one's 13d. Mr. Massey pays 24s licence fee, and by getting his news free saves that amount ,whereas the city man makes an up-to-date paper possible by keeping its circulation up to requirements, and pays his licence fee in addi-

One has a perfect right to expect service from A class stations to meet the wishes of the majority who subscribe to their upkeep, which I believe to be more music and less talk from 7 a.m. to 8 a.m.

Mr. Editor,-Your "Wireless Weekly" is a valuable and very interesting paper which I would not be without, and must have a large circulation. What about testing this much-talked-of matter by having a friendly ballot as to whether all music should be broadcast during the initial hour and news afterwards?

My set is a 45E Radiola, and it has no superior in the Commonwealth, hence the sneer by Mr. Massey is quite in keeping with his puerile attitude. Under no circumstances do I wish to deny the country people the city news, but I do object to my newspaper being secondhand when I get it. One can surely not be censured for attempting to urge programmes to meet the wishes of the majority, who meet the financial bill.-Yours, etc.,

"W.J.J."

Hornsby (4.12.31).



THE SPECIAL XMAS MODEL

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The Xmas Model

"Truvoice" Three

Using the New Ken-Rad UY235 Variable-Mu Screen Grid Valve as a radio-frequency am-lifier, Ken-Rad UY224 Screen Grid High ellage Power Detector, Ken-Rad UY247 New American Penthode, and Ken-Rad Jull Wave Rectifier (four valves in

Fitted with Jensen Moving Coil Speaker, in beautifully figured two-tone Console Cabinet, as illustrated. Pre-selector tuning ensures complete separation of stations, and easy and accurate volume control gives complete flexibility. Twelve months' guarantee.

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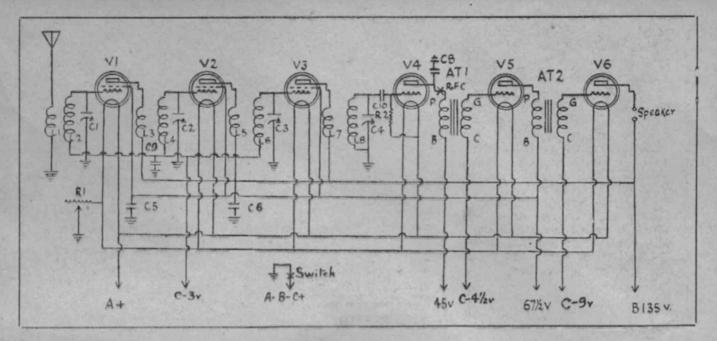
Jensen Speaker.

£19/12/6

Same Day Service for Country Clients ESTABLISHED TEN YEARS.



"Our Reputation is Your Protection" MONEY BACK GUARANTEE.



N last week's issue we described a most modern design of six-valve battery set, which incorporated one or two rather unconventional arrangements of the circuit. Since we know that many of the circuit. Since we are given a set of unusual design, we are giving in this short article a slightly modified circuit, which brings the set into line with the accepted practice of arranging bias, etc. With the original "Infinite bias, etc. Six" we arranged an automatic method of obtaining bias by means of wirewound resistances. In this set we have reverted to the old style of "C bias bat-tery" method. The chief difference in the modified set is simply the greater number of leads to the batteries and its chief disadvantage merely the extra trouble necessary to "hook-up" the set in the first place.

AN ADVANTAGE

EVEN this slight disadvantage is set off by the increased efficiency which probably will be obtained with greater range of voltage variations. For instance, the voltages on the screens of the r.f. valves and on the plate of the detector can be varied in proportion to a variation of the bias voltages in order to get the very last ounce out of the inh

THE PARTS LIST

THE only differences in the parts lists for the original and modified sets will be as follows:—Instead of a 400 ohm potentiometer R1 will be a 30 ohm rheo-The resistor R3 and the condenser C7 both will be omitted and the only extra item necessary will be a 9 volt "C" battery. It will be seen that the actual cost of the job will be lowered by a matter of a few pence.

THE WIRING

THE general arrangement of the wiring will be as originally described, with the exception of the leads from the bottoms of the secondary windings of the coil units. Instead of running straight to earth these leads will be brought out to one side of the condenser C9, the other side of this condenser being earthed. We strongly recommend the builder to make these leads all as nearly being equal in length as possible, and they should run straight out of the cans and over to the condenser rather than that they should be connected together, with a

Here is another and more conventional version of the Infinite Six featured in our last issue. Those country listeners who plan to build this set will find the accompanying circuit less difficult to comprehend if they are well up in radio practice.

single lead over to their by-pass condenser. The point is not critical, but may help a trifle.

LEADS TO THE "C" BATTERY

THE following additional leads will be required from the set for the "C" batery:-One from the condenser C9, just mentioned, which will require to be attached to about C minus 3 volts, one from the C terminal of the first audio transformer, which previously was transformer, which was previously earthed, but will now run to C minus 4; volts, and a third lead is required from the C terminal of the second audio transformer, and will run to the 9 volt negative terminal of the "C" battery, instead of to B negative, as previously

THE FILAMENT WIRING

THE filament wiring is also little altered except that the negative side of the filament wiring is earthed through the rheostat and the negative lead from the battery runs straight to

Q.S.L. CARDS

Q.S.L. CARDS

Q.S.L. cards for the following have rived at "Wirelets Weekly," and will posted to amateurs on receipt of advise and stamps:—
2-AP. AT. AX. BA BF. CE. CJ. CR. CV. EU. GK. GM. GR. HB. HC. CV. EU. GK. GM. GR. HB. HC. D. LW. LX. LZ. MR. MR. MR. MR. NG. NZ. COP. OP. OP. AP. PR. PS. RN. SA. SD. W. TX. TY. WA. WD. WE. WI. WN. ZX. U. VK. YR. ZU. ZW. ZX.
3-AC. BW. GP. LQ. MY. OC. RG. RH. L. WM. ZZ.
4-OK. W.
5-GP. ML. OH.
6-AY. BN. EX. FB. GP. WI.

through the main switch of the set. the switch is fitted in the negative lead and the B negative and C positive terminals all connected to the battery end of the lead, then the switch will definitely cut off all batteries simultaneously.

THE VOLTAGES

THEORETICALLY we expect that the voltages for best results will be about 3 volts bias for the r.f. valves, 45 volts bias for the audio amplifier, and 9 volts for the output valves. On the screens of the r.f. valve probably 67½ volts will be required, with 45 volts for the detector. and the entire maximum for the plate of the output valve. Whilst there is no doubt that the set will operate well on these voltages, it is as well for the set builder to experiment with different voltages. On the plate of the detector, for instance, 223 volts may give better The voltage on the screens of valves will be lowered to 45 the r.f. volts if oscillation is encountered, but even if the set is absolutely stable this voltage must not be increased beyond 90 The bias voltage on the r.f. valves can also stand considerable variation: in fact, it may be found that the valves will work better without any bias at the lead being taken straight to the C positive terminal. At all times it should be remembered, however, that the higher the bias voltages used the lower will be the drain on the "B" batteries.

USING OTHER TYPE VALVES

(LANCING through the queries mail reveals that several readers have built the original "Super-six" and the 'Forty-Four," using British and Continental valves of other types than those originally specified, and claim very excellent results from them. The chief difference between the valves, of course. is the connection to the cap. With the American type valves the nickel cap of the valve is the grid connection with the "G" terminal of the valve socket connected to the screen. With the Continental type valves the bakelite cap is the plate connection, the "P" terminal of the socket being the connection for the The different methods screen. of arranging the connections can be most confusing to the novice, and if at all in doubt it is a wise plan to go slowly at this point of the wiring, as incorrect connections to valves can be most expensive.

ELECTROLYTIC CONDENSERS

Advantages and Disadvantages. A comparison with other types of condensers. How they are used in modern set construction . . . how not to place them in layout.

INTRODUCED to the Australian market a few months ago, the electrolytic condenser has taken the trade's fancy, and to-day practically every set manufacturer in Sydney uses electrolytic condensers in the filter circuits of his sets. Naturally enthusiasts are intorested in the change over from paper to electrolytic condensers, and some pretty fierce debates on their merits have taken place between members of one radio club and probably in others. To show that the subject has many points to be considered, it is only necessary to notice that technical journa. from both England and America are divided on the subject, some supporting the electrolytic, whilst others say they are a failure and will soon become discarded.

What is an Electrolytic Condenser?

AN electrolytic condenser is much the same as any other type of condenser in its action, but vastly different in construction. The electrolytic condenser has an anode of metal as the positive terminal, with an electrolyte as the negative terminal and a layer of gas between them as the dialectric. The principle is much the same as with the old-time electrolytic rectifier. It is quite an easy matter for current to flow from the electrolyte liquid to the plate, which is usually made of aluminium or tantalum, but the passage of current from the aluminium anode to the electrolyte is difficult.

The Capacity

THE factors determining the capacity of the electrolytic condenser are mainly the area of the anode's surface. the material it is made from, and the thickness of the gas film. The thickness of the film actually depends upon the voltage first applied to the condenser after its manufacture. higher the initial voltage the thicker will be the film, and of course the lower the capacity. After the condense, is manufactured it is subjected to a voltage for about ten hours in order to form the film correctly. On this account it is also noticed that a condenser after arrival from overseas will spit, crackle, etc., when first connected to a set here, but soon settles down to normal operation after a few minutes' service.

Self-healing

THE chief advantage of the electrolytic condenser is its ability to heal itself after a breakdown caused by the application of a higher voltage than normal.



A typical electrolytic condenser,

With the old style of paper condensers a breakdown resulted in causing a short-circuit, and in cases of filter condensers this breakdown usually resulted in a burntout rectifier valve, or perhaps a burntout filter choke, and in fact even a burntout power transformer. One of the reasons why electrolytic condensers became popular with traders was on account of a belief that an electrolytic condenser could not shortcircuit internally. Actually it is possible for an electrolytic condenser to break down and cause just amount of damage as the ordinary con-The main difference. denser. lies in the fact that the electrolytic will heal itself if the power is switched oil as soon as the condenser breaks down On this account it would be a sound idea if all set manufacturers fitting electrolytic condensers were to issue a warning to buyers to always switch off the set if it fails in operation. The if it fails in operation. cause of the breakdown may be merely a temporary overload caused by a line voltage fluctuation, and the switching off of the set may save further dam-When switched on again the condensers will have sealed themselves again.

Advantages

SO we find that the chief advantage of the electrolytic condenser lies in its compact size, the ease with which it can be mounted in a chassis without screws, rivets, etc., its compactness and manner in which it can be stowed away in an odd corner of the base, and its additional capacity, as most electrolytics are rated at 8 microfarads as against the usual 4 microfarads of the normal paper dialectric filter condenser. It actual practice this extra capacity seldom appears to have any beneficial effect upon the hum level of the output

Disadvantages

THE disadvantages of the electrolytic condensers are many and varied. according to various opinions. dealers claim that the electrolytic condensers increase the drain on the power transformer by 30 milliamps-a most serious factor. Others blame the electrolytics for giving them sizzling noises in the speaker, and to others the thought of having cans full of electrolyte in a radio set is not acceptable. Thought out in the most logical way, we still fail to find any justification for present positive "boom" which is at being enjoyed by electrolytic condensers.

A Warning

WHILST on the subject of electrolytic condensers there is another point we would like to bring up, and this is the matter of the placing of the electrolytic condensers on the chassis. Most manufacturers appreciate that an elec trolytic condenser must be mounted a an upright position, but few seem co trouble further, simply filling up any vacant spaces on the chassis, rathe than fitting them in any special position. We think this is very bad practice, and feel sure that in the future a lot of trouble will be caused on this account. The electrolytic condenser is filled with electrolyte, which can readily evaporate if the condenser gets hot. Yet in several cases we have noticed the electrolytic condensers fitted right against the rectifier and near the power valve or pentode. All of these valves get very hot in operation, and in some sets we've had on test the electrolytic condensers have been so hot after a few hours running that they were too hot to touch. Naturally under these circumstances their life is only a few months, and when the electrolyte is completely evaporated-well, then the electrolytic condenser ceases to be very electrolytic.

DR. PAGE ON BROADCAST CONTROL

The only party leader to make a definite reference to broadcasting policy during the election campaign has been Dr. Earle Page, who made a general statement of his views on the subject in a broadcast talk from 2FC on December 8. Dr. Page's statement is quoted verbatim below.

Before summing up,

"I would like to deal with that very vexed question of the future control of Broadcasting in Australia. While the Country Party is not prepared to admit that broadcasting in Australia has failed under the private contract sys-tem, there seems to be a general idea among licenced listeners that the time has arrived to put this vast public utility under a Board of Control.

"If this is to be a success, the Country Party is firmly of the opinion that any of the features which militated against the private contractors must go, and the British Broadcasting Corporation system in its entirety must be installed It is no use making a half-hearted move in this matter. If Broadcasting is to be removed from the exigencies of politics, it must be placed under a Board operating upon a charter which gives it full responsibility over both the programme matter and the technical administration, without any interference directly from the Government of the day, or indirectly through the interference of the Civil Service, which in turn can be nothing more than the mouthpiece of the Government.

"On the question of finance, the Country Party would not suggest that at the moment there should be any reduction in the present licence fee, as there is any amount of room for improvement alike in programmes and transmissions services."

transmission services.

"The existing system of absorbing in the consolidated revenue a large section of the license fee is wrong, and in fact it was always intended that money so raised would be used for improvements in the system, and the money received for the purpose of broadcasting should be operated through a fund entirely re-moved from other Government accounts

"It would, however, be quite within the ambit of the Government to charge a regular percentage against each licence as a form of amusement tax, and in doing this it would only be following out the precedent established in Great Britain. Other than this, the entire financial ramifications of the broadcasting service would be within the control

its own administration.

"The business control would be empowered to enter into contracts for its services with the Postmaster-General's Department, and also to charge for its services with the Postmaster-General's Department, and also to make contracts with other bodies whose services are essential to a successful broadcasting undertaking. Under its charter the Broadcasting Commission will retain their seats upon similar terms to those of the Directors of the Commonwealth Bank, and cannot be removed during their term of occupancy except by the action of Parliament. This will assure the Commission of sufficient independence to withstand any attempt to influence Its operations through political pressure, and at the same time it will be subject to the wish of the community as a whole through the Federal Parlia-

"Anyone who has carefully studied the charter under which the British Broadcasting Corporation operates, must re-

TRADE BULLETIN NEXT WEEK.

Owing to the incidence of the Federal elections and the large number of pages devoted to listing candidates for broadcast results, the Trade Bulletin, which was to have been a feature of this issue, has been held over, and will appear next week.

cognise that it is only in the appointment of a body of equal strength and independence that we can remove Broadcasting as an established and accepted institution, carrying possibly the greatest influence in the life of the community, beyond the exigencies of either direct or indirect political attack. Any suggestion of political control will be rigidly opposed by the Country Party,

which recognises that Broadcasting is a utility that can only answer the requirements of the public at large, when it is given an independence equal to that under the British Broadcasting system.

"As I have already said, the Country Party advocates a constitutional change giving broadcasting and wireless control over to the Commonwealth, and then preventing the danger of duplicating between the Federal and State authori-

"The radio can do more for the Commonwealth than any other factor in making the conditions of the men who live outback satisfactory, and grant to them some of the attractions which come to their more fortunate fellow citizens in the great cities.

YOUR CALL SIGN BOOKLET

November Amendments and Additions to the list of Broadcasting and Experimental Stations, published in the Wireless Weekly Supplement, November 27, 1931.

ADD TO BROADCAST STATIONS

-		WT
•)	Λ	14
	A	11

VK 3TP

VK 3LD

VK 2PN

VK 6XF

VK 3YZ

VK 3YW

VK 2MW

VK 6LJ

VK 4WI

VK 7RS

VK 3JP VK 4QL

VK 4HK

VK 30G

VK 5LA VK 2OJ

VK 4JK VK 4JH VK 3RC

VK 2ZJ VK 3LM VK 2ZO

VK 30G VK 4NS

VK 4PW

200 metres. Akron Broadcasting Co. 490 Elizabeth St., 1500 k'eycles MELBOURNE 50 watts

5 a.m. to 7 a.m. 11.30 p.m. to 2 a.m.

AMATEUR EXPERIMENTAL STATIONS. ADDITIONS Address. Call Sign. VK 5MA White, C. R.

69 Curran Street, Kilkenny, S.A. 33 Auburn Grove, Auburn, E.3, Vic. Ridge Road, Mt. Dandenong, Vic. 11 Percy Street, Balwyn, E.8, Vic. 20 Neil Street, Cowandilla, S.A. VK 3OJ VK 3YJ VK 3MQ VK 5MK Bentley, F. E.
Jonasson, R. P.
Hanham, F. S.
Fromholtz, C. A. VK 4NG Alberton, Queensland. 161 Napier Street, Essendon, W.5. Vic. 15 Iramoo Street, Balwyn, E.8, Vic. 162 Roseneath Street, Clifton Hill, N.8, Vic. VK 3BJ VK 3UY VK 3DY VK 2KF Kurri Kurri Radio Club, (E.

McKeown, A. M. Waring, C. C.

The Queensland Listeners'

Lang Street, Kurri Kurri, N.S.W. 4 Edith Street, Caulfield North, S.E.7, Vic. "Milleara," The Basin, via Bayswater, Richardson, L. R. N.

Vic. Capper Street, Tumut, N.S.W.

CHANGES OF ADDRESS. Chaffer, M.

Wentworth Hotel," William Street,

Perth, W.A.

C/o Exide Battery Service. 221-225
Ryrie Street, Geelong, Vic.

"Mitiamo," 80 Balwyn Road, Canterbury, E.8, Vic.

75 Human Street, Laichhaut

75 Hubert Street, Leichhardt, N.S.W. Cannington Terrace, Cannington, W.A. Box 5, Toowong, Q'land.

"Roseville," Clare Street, Hobart, Tas. 12 Huntly Street, Elsternwick, S.4, Vic C/o N. W. Atkinson, "Alynbrook," St. Osyth Street, Toowong, Q'land.

Mareeba, Q'land. 41 The Grove, Moreland, N.13, Vic. (Formerly 20G, Croydon, N.S.W.) 20 Lynington Street, Tusmore, S.A. Forrest Hill Avenue, Albury, N.S.W. 18 Arthur Street, Preston, N.18, Vic.

CANCELLATIONS.

Willis Island. 64 Nelson Street, Mackay, Q'land. Wingrove Street, Fairfield, N.20,

23 Sibblek Street, Five Dock, N.S.W. 55 Aintree Road, Glen Iris, S.E.6, Vic. Coramba Road, South Grafton, N.S.W.

Townsville Radio Club . . . Formerly 20G, Croydon, N.S.W., Wood, P. 5 Omar Street Inswich Co.

5 Omar Street, Ipswich, Q'land, form-

FEDERAL ELECTION RESULTS

Almost every station in Australia will be broadcasting the results of the polling in the Federal election as they come to hand on Saturday evening. Whatever station, however, you are tuned in to, the following pages will be found useful for keeping a record of the progress of the parties. See article on page 5 for further details.

Senate Candidates	for	New	South	Wales
ANDERSON, C. E. (S. Lab.).				SCHOOL SE
ARTHUR, T. C. (State Lab.).	1			
BARKER E. E. (State Lab.).	1			
BAILEY, J. (Fed. Lab.).	1			
BLACKBURN, H. J. (F. Lab.).	1000		25,1402	Week H.
GARDINER, A. (Fed. Lab.).	I Tag			SHOW I
*COX, C. F. (U.A.P.).	1000	100		
*GREENE, W. M. (U.A.P.).		F4 53		
HARDY, C. Jun. (U.A.P.).	1		CONTRACTOR OF THE PARTY OF THE	
DOOLEY, J. (Ind. Lab.).				
MeDONALD, G. R. W. (Prot.)	1			
SHARKEY, L. L. (Comm.).	1			
TAYLOR, A. E. (Ind.).	Pare			
Senate Candidates	for	Victo	oria	
Sentite Camarata				
*BRENNAN, T. C. (U.A.P.).	1			
*BRENNAN, T. C. (U.A.P.).				
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.).				
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.).				
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.). CAMERON, D. (Fed. Lab.).				
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.). CAMERON, D. (Fed. Lab.). SHEEHAN, J. M. (Fed Lab.). WOLLIS, A. R. (Fed. Lab.). KELLY, A. (Young Nat.).	1			
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*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.). CAMERON, D. (Fed. Lab.). SHEEHAN, J. M. (Fed Lab.). WOLLIS, A. R. (Fed. Lab.). KELLY, A. (Young Nat.). MURCHISON, W. (Ind. U.A.P.) PARTRIDGE, H. F. K. (C.). Senate Candidates BROWN, G. (Fed. Lab.). COLLINGS, J. S. (Fed. Lab.).	for			d
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.). CAMERON, D. (Fed. Lab.). SHEEHAN, J. M. (Fed Lab.). WOLLIS, A. R. (Fed. Lab.). KELLY, A. (Young Nat.). MURCHISON, W. (Ind. U.A.P.) PARTRIDGE, H. F. K. (C.). Senate Candidates BROWN, G. (Fed. Lab.). COLLINGS, J. S. (Fed. Lab.). MACDONALD, J. V. (F. Lab.)	for			d
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.). CAMERON, D. (Fed. Lab.). SHEEHAN, J. M. (Fed Lab.). WOLLIS, A. R. (Fed. Lab.). KELLY, A. (Young Nat.). MURCHISON, W. (Ind. U.A.P.) PARTRIDGE, H. F. K. (C.). Senate Candidates BROWN, G. (Fed. Lab.). COLLINGS, J. S. (Fed. Lab.). MACDONALD, J. V. (F. Lab.) *COOPER, W. J. (U.A.P.).	for			d
*BRENNAN, T. C. (U.A.P.). *GUTHRIE, J. F. (U.A.P.). *PLAIN, W. (U.A.P.). CAMERON, D. (Fed. Lab.). SHEEHAN, J. M. (Fed Lab.). WOLLIS, A. R. (Fed. Lab.). KELLY, A. (Young Nat.). MURCHISON, W. (Ind. U.A.P.) PARTRIDGE, H. F. K. (C.). Senate Candidates BROWN, G. (Fed. Lab.). COLLINGS, J. S. (Fed. Lab.). MACDONALD, J. V. (F. Lab.)	for			d

MR. H. P.
WILLIAMS
WHO WILL BE
ANNOUNCING
THE RESULTS
FROM 2FC
AND 2BL





At the time of going to press the Senate nominations for South Australia, Western Australia, a n d Tasmania had not been announced. The Senate figures, however, will not be received until the House of Representatives candidates are almost complete.

U.A.P.—United Australia Party led by Mr. Lyons and Mr. Latham. Fed. Lab. or A.L.P.—The Austra-

Fed. Lab. or A.L.P.—The Australian Labor Party led by Mr. Scullin and Mr. Theodore.

State Labor.—The Lang Plan Party led by Mr. Beasley.

U.C.P.—The United Country Party led by Dr. Earle Page.

Ind.—Independent.

Ind. L.—Independent Labor. Prot.—Protectionist.

Comm.—Communist.

RETURNED UNOPPOSED
WIDE BAY (Q.): Corser, B. H.
(U.C.P.). MORETON (Q.):
Francis, J. (U.A.P.) FORREST
(W.A.): Prowse, J. H. (U.C.P.).
GIPPSLAND (Vic.): Patterson
(U.C.P.).

An asterisk denotes a retiring member.

House of Represe	ntatives	Candidates	for New So	uth Wales
BARTON	1929 pell: Tully	(Labor) 43,297, Myhill (alist) 20,722	Nation-	
*ELDRIDGE, J. C. (S. Lab	.).]			
LANE, A. (U.A.P.).				
*TULLY, J. T. (Fed. Lab.).				
CALARE	1929 poll: Gibbo	ns (Labor) 20,492. Howse (alist) 19,252.	(Nation-	
*GIBBONS, G. A. (Fed Lab.)).		- Incombine	
THORBY, H. V. C. (U.C.P.).				
WATSON, T. W. (State Lab	.).	SEE SEE SEE SEE		
COOK	1929 poll: Riley	(Labor) 34,221, Pickup (alist) 6409.	(Nation-	
GARDEN, J. S. (State Lab.).		ME SERVICE DAY	
*RILEY, E. C. (Fed. Lab.).				
ROBINSON, C. (U.A.P.).				
WRIGHT, T. (Comm.).		THE RESIDENCE	REP RESIDENCE PROPERTY	

COMPAN
COWPER 1929 poll: Page elected unopposed.
*CUSACK, J. J. (Fed. Lab.).
*PAGE, E. C. G. (U.C.P.).
ROACH, T. W. (State Lab.).
DALLEY 1929 poll: Theodore (Labor) 31,276, Morrow (Nationalist) 8870.
LITTLE, W. C. (Ind. Nat.).
MASSEY, S. (U.A.P.),
ROSEVEAR, J. S. (State Lab.).
SYLVESTER, J. W. (Comm.).
*THEODORE, E. G. (F. Lab.).
DARLING 1929 poll; Blakeley (Lobor) 24,124. Doe (Nationalist) 10,239.
*BLAKELEY, A. (Fed. Lab.).
CAMPBELL, H. E. O. (U.C.P.).
QUINTRELL, R. E. (S. Lab.).
TRIPP, E. C. (Comm.).
EAST SYDNEY 1931 by-election: Ward (Labor) 19,975. Courtenay (Nationalist) 16,333. Mountjoy (Communist) 611.
BUCKLAND, G. H. (F. Lab.).
CLASBY, J. J. (U.A.P.).
*WARD, E. J. (State Lab.).
EDEN-MONARO 1929 poll: Cusack (Labor) 19,732. Perkins (Nationalist) 19,692.
CHRISTIAN, A. J. (U.C.P.).
O'SULLIVAN, G. J. J. (F. L.).
PERKINS, J. A. (U.A.P.).
GWYDIR 1929 poll: Cunningham (Labor) 20,873. Abbott (Country Party) 18,014.
ABBOTT, C. L. A. (U.C.P.).
BROWN, A. (U.C.P.).
CUMMINS, E. F. (State Lab.).
The state of the s
HUME 1929 poll: Moloney (Labor) 23,144. Fitzpatrick 17,743.
COLLINS, T. J. (U.C.P.).
*MOLONEY, P. J. (Fed. Lab.).
LIUNTED
BAILEY, A. (Ind.). BURNHAM, H. (Comm.).
HOWIE, A. (Fed. Lab.).
*JAMES, R. (State Lab.).
LANG 1929 poll: Long (Labor) 28.898 Dein (Nationalist)
BENNETT, A. E. (U.A.P.).
DEIN, A. K. (U.A.P.).
*LONG, W. J. (Fed. Lab.).
MULCAHY, D. State Lab.).
MACOLIARIE 1929 poll; Chifley (Labor) 25,349, Dash (Nation-
*CHIFLEY J. B. (Fed. Lab.).
DEVENEY, R. (Comm.).
LAWSON, J. N. (U.A.P.).
LUCHETTI, A. S. (S. Lab.).
MARTIN 1929 poll; Eldridge (Labor) 31,804. Pratten
(Nationalis) 20,216, Beeny (P.P.) 4309.
ABBOTT, M. (U.A.P.).
CATTS, J. H. (Fed. Lab.).
HOLMAN W A (UAP)

NEWCASTLE 1929 poll: Watkin	ns elected unopposed.	Transmit		ALVATOR !
CLARK, C. R. (U.A.P.).	as elected unotiposed.			
KIDD, J. (State Lab.).				The second second
SIMPSON, J. S. (Comm.).				
SKELTON, W. P. J. (Ind. L.).				Name and Address of the Owner, where
*WATKINS, D. (Fed. Lab.).				
	(Country Party) 21	.005		
Wilson ()	Labor) 17,489.			
*THOMPSON, V. C. (U.C.P.).				
		Leceza III		1 1 2 2 2 2 3
NORTH SYDNEY 1929 poll: Hughes (Ind. Le	Nat.) 33,263. Nott (Nab.) 618. Judd (Coc.)	180.		
COWPER, N. L. (U.A.P.).				
*HUGHES, W. M. (U.A.P.).				Harris St.
NELSON, N. C. L. (State Lab.).				IT SUMBER
PARKES 1931 by-election: Marr 22,394 Blake (E. R.)	(Nat.) 31,227. Martin (L. 986 Tripp (Comm.)	ab.)		
GARDEM, H. L. (State Lab.).	4.04 2.00			1
GIBBS, W. A. (Fed. Lab.).				10050000000
*MARR, C. W. C. (U.A.P.).				
PARRAMATTA 1929 poll: Rowe (Labo	r) 30,686. Bowden (Nat	ion-		
BROWN, A. (Ind.).	26.874.			
PATTERSON, V. D. (S. Lab.).				
*ROWE, A. E. (Fed. Lab.).				The state of the s
STEWART, F. H. (U.A.P.).		1		
REID 1929 poll: Coleman (La	hori 40 909 Care (Not	fon-		
8418	16,977.	108-		
*COLEMAN, P. E. (Fed. Lab.).				
GANDER, J. H. (State Lab.).				B. Barrier
UEBEL, R. N. (U.A.P.).		The state of the		
	ntry Party) 24,400. Gi Party) 13,748.	bson		
FREDERICKS, J. (S. Lab.).				
GIBSON, R. C. (U.C.P.).				ISSA STREET
*GREEN, R. F. H. (U.C.P.).		1		
GREENING, L. E. (U.C.P.).			Minimum .	
TIGHE, P. E. (U.C.P.).				
RIVERINA 1929 poll: Killen (Cou (Labor) 19,605. Noc	ntry Party) 22,200, N k (Country Party) 1224	ulty		
HANKINSON, R. H. (U.C.P.).		1		
HEISS, J. A. (State Lab.).		Market Market		
LEVY, L. J. (Fed. Lab.).				
NOCK, H. K. (U.C.P.).	N. D. E. D. C.			
ROBERTSON 1929 poll: Gardner (Na	tionalist) 19,188. Fitzge	rald		
FLEMING W. M. (Ind. U.C.P.).				Part Service
*GARDNER, S. L. (U.A.P.).	THE RESERVE			
ROBB, P. (State Lab.).	ALL STREET			
TURNBULL, W. E. (F. Lab.).				
SOUTH SYDNEY 1929 poll: Riley (Labo	r) 34,978. Adkins. (Nat	ion-		
JENNINGS, J. T. (U.A.P.),) 17,782.			
*RILEY, E. (Fed. Lab.).				
STEWART, J. (State Lab.).	0.1			
	ationalist) 25,129. Wind	éver	Rel Landson	
People's	Party) 22,688.			
DUNCAN, W. L. (Ind. U.A.P.)				
*PARKHILL, R. A. (U.A.P.).		001	SER AND	
Contract to the second	pendent Nationalist) 31 ationalist) 22,878.	,001		
HARRISON, E. J. (U.A.P.).			THE PERSON NAMED IN	HI DESIGN
*MARKS, W. M. (U.A.P.).	STATE OF THE PARTY OF THE PARTY.	The second second		

WERRIWA 1929 poli: Lazzarini (Labor) 28,213. Grogan (Nationalist) 14,903.	
*LAZZARINI, H. P. (S. Lab.).	
McNICOLL, W. R. (U.C.P.).	
SHEPPARD, M. P. (Ind.).	In
TULLY, E. B. (Fed. Lab.).	
WEST SYDNEY 1929 poll: Beasley (Labor) 28,121. Thompson (Nationalist) 4404.	
*BEASLEY, J. A. (S. Lab.).	
BUTTERELL, A. W. (U.A.P.).	
DONALDSON, J. (Fed. Lab.).	
House of Representatives Candidates for Victoria	
BALACLAVA	
DENYER, J. P. (Ind.).	
STEWART, E. (Fed. Lab.). *WHITE, T. W. (U.A.P.).	
BALLARAT	-
BROMFIELD, H. A. M. (U.C.P.).	
*McGRATH, D. C. (U.A.P.).	
MILLER, J. S. (Fed. Lab.).	
BATMAN	
BLAKE, F. E. J. (Aus. Dem. P.). *BRENNAN, F. (Fed. Lab.).	
DENNIS, S. (U.A.P.)	
HANNAN, J. E. (Comm.),	
BENDIGO	
HARRISON, E. F. W. (U.A.P.),	
*KEANE, R. V. (Fed. Lab.).	
BOURKE	
ADIE, J. (Comm.). *ANSTEY, F. (Fed. Lab.).	
IVEY, J. L. R. (U.A.P.).	
NORMAN, W. H. (Ind.).	
CORANGAMITE	
*CROUCH, R. A. (Fed. Lab.). GIBSON, W. G. (U.C.P.).	
CORIO	
CASEY, R. G. (U.A.P.).	
*LEWIS, A. (Fed. Lab.)	
LISTER, J. H. (Ind. U.A.P.).	
ECHUCA	
FITZPATRICK, J. (Ind. U.A.P.).	4 10
*HILL W. C. (U.C.P.). MOSS, W. L. (Ind. U.C.P.).	
STEWART, G (Ind. U.C.P.).	
FAWKNER	
*MAXWELL, G. A. (U.A.P.)	
McKENNA, J. L. (Fed. Lab.). ROBERTSON, D. (Ind.).	
FLINDERS	
BRUCE, S. M. (U.A.P.).	
HAYWOOD, A. H. (Fed. Lab.).	-
HENTY	
*GULLETT, H. S. (U.A.P.).	7
KATZ, F. (Fed. Lab.).	
INDI.	
*JONES, P. (Fed. Lab.).	
WALTER, A. L. N. (U.C.P.),	-
KOOYONG	
*LATHAM, J. G. (U.A.P.),	100
LOUGHNAN, C. A. (Fed. Lab.).	72.55

		STELL OF THE		
MARIBYRNONG				
BECKETT, W. J. (Fed. Lab.).				
*FENTON, J. E. (U.A.P.)		NAME OF TAXABLE PARTY.	SECTION AND LABOR.	
SCOTT, W. E. (Aus. Dem. P.).				
MELBOURNE				
MALONEY W. R. N. (Fed. Lab.).	RELIGION OF	DIRECTOR OF THE		THE REAL PROPERTY.
SMITH, I. (U.A.P.).				SAME INCOME.
MELBOURNE PORTS				
"HOLLOWAY, E. J. (Fed. Lab.).		MARKET IN		
HOUSTON, T. A (State Lab.).				DESTRUCTION OF THE PARTY OF THE
HOWEY, W. (Ind. U.A.P.). KERBY, N. (Ind.).				
Le HURAY, T. W. (Comm.).				
ORR, W. J. (Ind.).		CONTRACTOR OF		
WANNON				STREET, STREET
McNEILL, J. (Fed. Lab.).				
RODGERS, A. S. (U.C.P.),	Maria Salar			WHEN MISSISSING
SCHOLFIELD, T. H. (U.A.P.),	Carlotte A. S. S. S.	distributed in		
WIMMERA				
DOWSLEY, A. (Ind.).		Paradio		
LOCKHART, S. (U.C.P.).	THE RESERVE			ROBERT ASSESSMENT
McCANN, W. J. (Ind. U.C.P.). McCLELLAND, H. (U.C.P.).	HACT RESIDENCE	or sections 2 days 12	MET CALL TO BE	CHARLES DESCRIPTION
MORGAN, W A. (U.A.P.).			CALEBOOK BATTLES	
YARRA				
BRANAGAN, P. J. (Ind.),				
DAVIS, J. C. (U.A.P.).				
SCULLIN, J. H. (Fed Lab.).	turni falia pica			
THORNTON, E. (Comm.),				
House of Representativ	es Cand	idates fo	r South A	ustralia
ADELAIDE				
GOODE, Mrs. A. K. (Ind.).				
HOWARD, T. P. (Lang Plan)	SHALL	1 5 5 5 5 1 7		
STACEY, F. H. (Em. Committee.)		1		
VAUGHAN, C. (Ind.). *YATES: G. E. (Fed. Lab.).		N		
ZWOLSMAN, J. (Comm.).				
ANGAS				
FRASER, D. S. (Fed. Lab.),				
GABB, J. M. (Em. Committee),				
BARKER				
*CAMERON, M. D. (Em. Committee)				
HASSE, C. T. (Fed. Lab.).	SECTION AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS			
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Stromberg-Carlson

Wish you and yours A Merry Xmas and Happy and Prosperous New Year

To assist you in the coming year we have pleasure in announcing the following new prices which will operate as from January 1st, 1932, for

VARIABLE CONDENSERS

SIZE	OLD PRICE	NE	W	PRICE
Single-gang	10/6	10/-		
Two-gang	£1/5/0	£1	1	0
Three-gang	£1/17/6	£1	10	6
Four-gang	£2/10/0	£2	1	0

After intensive laboratory research we have succeeded in producing a Superheterodyne Model with single-dial control to be known as the Stromberg-Carlson 731.

For the benefit of the home-constructor we are issuing in conjunction with the technical Editor of "Wireless Weekly" a special

Superheterodyne Kit-

WATCH THIS JOURNAL FOR FULLER ANNOUNCEMENT

FRIDAY DEC.



SOUTH AFRICA V. AUSTRALIA

A description from the Sydney Cricket Ground

2FC

SYDNEY. 451 Metres

Early Session

7.0 to 8.15 a.m. (Relayed to 2NO, Newcastle.)

Morning and Afternoon Session

10.30 to 4.30 p.m. (Relayed to 2NC, Newcastle between 10.40 and 12 noon and 2.30 and 4.30 p.m.)

12.5: FROM THE SYDNEY TOWN HALL COMMUNITY SINGING CONCERT, arranged by THE AUSTRALIAN BROADCASTING CO., LTD.

12.30: IMPORTANT NOTE:-Scores in the match, South Australia v. N.S.W., played at Adelaide, will be given at the fall of each wicket, lunch and tea adjournments, and stumps drawn.

Scores in the match, Victoria v. Queensland, played at Melbourne, will be given at lunch and tea adjournments and stumps drawn.

1.15: FROM THE SYDNEY CRICKET GROUND-Description of the play in the match, South Africa v. Australia, Second Test.

Relayed to the National Stations.

1.30: FROM THE SYDNEY TOWN HALL —COMMUNITY SINGING CONCERT, arranged by the AUSTRALIAN BROADCASTING CO., LTD.

2.15: FROM THE SYDNEY CRICKET GROUND-Description of the Second Test Match, South Africa v. Australia.

4.0: THE COURT SYMPHONY OR CHESTRA (recorded)-H.M.S. Pinafore Selection .. Sullivan

8: ALFRED O'SHEA, Tenor (r.)— What a Wonderful World It Would Be, Lohr

4.11: RUDY WIEDOEFT TRIO, Saxo-phonists (recorded)—

Sax-o-phun 4.14: THE H.M. GRENADIER GUARDS BAND (recorded) -

Nell Gwyn Dances German
1. Country Dance.
2. Pastoral Dance.

4.20: THE MAESTROS, Vocal Quintet (r) English Medley arr. Evans

VICTOR ARDEN and PHIL OHMAN, Two-Piano Item (r.)— Maple Leaf Rag Joplin

4.28: Stock Exchange, third call.

4.30: Close.

Early Evening Session

5.40 to 8.0 p.m. (Relayed to 2NC, Newcastle.)

5.40: FROM THE SYDNEY CRICKET GROUND-Description of the Second Test match, South Africa v. Australia. Relayed to the National Stations.

6.0: Children's Stories, by the "Hello Man." Errol, Boy Soprano, will enter-

THE BOY'S AERO CLUB,

7-5: A.B.C. Sporting Service.

EVENING PROGRAMME

8.0 to 11.30 p.m. (Relayed to 2NC, Newcastle between 8.3 and 11.0 p.m.)

8.0: A CONCERT PROGRAMME, arranged by THE MUSICAL ASSOCIATION OF N.S.W.—

Sonata for Two Violins . . . Handel Largo and Allegro.
CYRIL MONK and ROBERT MILLER.

8.8: PEGGY DUNBAR, Contralto-

Unmindful of the Roses,

Coleridge Taylor If There Were Dreams to Sell . Ireland The Wind Bantock

★ TO-NIGHT AT 8.13 ★





Quartet for Piano, Two Violins, and Cello Mitchenn FRANK HUTCHENS, Pianist; MONK. Violinist: ROBERT MILLER, Violinist; and CEDRIC ASHBURN, 'Cellist.

8.30: PEGGY DUNBAR, Contralto-When I Am Dead, My Dearest,

Coleridge Taylor Virgin's Slumber Song Rager The Dreary Steppe . . . Gretchaninoff

8.35: CYRIL MONK, Violinist-

Wiegenlied Brahms
Humoreske Benjamin
Canzonetta Paradies

8.45: PEGGY DUNBAR, Contralto-

Silent Moon Vaughan Williams
Love Went a'Riding Bridge
8.50: FRANK HUTCHENS, Pianist—A
Group by Debussy—
Little White Donkey.

Toccata.

9.0; "REDGUM" will tell Listeners about their "GARDENS."

9.15: RELAYED FROM 3LO, MEL-BOURNE— THE A.B.C. WIRELESS SYMPHONY

ORCHESTRA-

Symphony in E Minor, Op. 95-The

RICHARD TAUBER, Tenor (r.)—
Si vous aviez compris Denza
CEDRIC SHARPE, 'Cellist (r.)— Valenshin Menuet CONCHITA SUPERVIA, Soprano (r.):

★5CL & 2BL TO.DAY★



SOUTH AUSTRALIA

NEW SOUTH WALES

Results from 2BL. A description from 5CL.

Barber of Seville-Cavatina Rosina Rossini 10.15: A talk on the day's play in the Second Test Match, South Africa v. Australia, by the A.B.C. Sporting Editor. Relayed to the National Stations.

10.30: RELAYED FROM 5CL, ADE-LAIDE—A talk on the day's play in the match, South Australia v. N.S.W., played at Adelaide.

10.45: FROM THE STUDIO-Late Official Weather Forecast.

10.47: FROM THE BALLROOM OF THE ORIENTAL-Jim Davidson's Orchestra. 11.30: Close.

SYDNEY. 351 Metres.

Opening Session

9.0: OLD FOLKS' SESSION.

10.35: THE AUSTRALIAN BROAD-CASTING COMPANY'S WOMEN'S AS SOCIATION, conducted by Miss Gwen.

"Commonsense Housekeeper's Service.

"Handicraft," by Mrs. Mary Liddell

Midday Session

12 noon to 2.30 p.m. (Relayed to 2NC, Newcastle, between 12 noon and 1.30.)

NOTE: Scores at the fall of each wic ket, at lunch and tea adjournments, and stumps drawn in the match, SOUTH AUSTRALIA v. NEW SOUTH WALES. played at Adelaide; and lunch and tea adjournments and stumps drawn in the match, VICTORIA v. QUEENSLAND, played at Melbourne.

12.0: FROM THE SYDNEY CRICKET
GROUND (Relayed to 2NC, Newcastle)
A Description of the Second Test
Match, SOUTH AFRICA v. AUS
TRALIA.

IMPORTANT NOTE: Between 1.15 and 1.30 Description will be relayed through the National Stations.

Afternoon Entertainment

2.30 to 6 0 p.m.

2.30: RECORDINGS.

FRIDAY, . . DECEMBER 18, (Continued)

3.0: POLA NEGRI, Soprano (recorded) (a) Farwell, My Gypsy Camp .. Trad. (b) Black Eyes ... 3.6: SELECTIONS. 3.22: HAROLD WILLIAMS, Baritone (recorded)-Limehouse (recorded) -"Hassan" Serenade Delins 3.28: ELSIE AND DORIS WATERS, En-tertainers (recorded)— Twenty Thousand Scotchmen Shouted "No" Weston

1 Only Met Her on Sunday .. Weston 3.34: COURT SYMPHONY ORCHESTRA (recorded)-The Yeomen of the Guard Selection 3.42: STUART ROBERTSON AND JOHN TURNER, Vocal Duet— A Ballad When at Sea ... 3.46: J. H. SQUIRE CELESTE OCTET (recorded) -Song of Sleep Sear 3.49: ALFRED O'SHEA, Tenor (r.)-To a Miniature Brahe 3 52: RADIO RHYTHM (recorded). 4-15: FROM THE SYDNEY CRICKET GROUND-

SOUTH AFRICA v. AUSTRALIA.
IMPORTANT NOTE: Between 5.40
and 6 p.m. Description will be relayed
through the National Stations. The Dinner Hour

6.15 to 8 p.m. EVENING PROGRAMME

A Description of the Second Test Match,

8.0 to 10.30 p.m.

3.0: THE A.B.C. ORCHESTRA— "The Marriage Market" Selection

8 10: FRANK PARSONS, Baritone—
(a) Come to the Fair Easthope Martin

The Giddy Little Girl Bagnali 8.31: RUBY LESLIE, Soprano— (a) Always In All Ways

Whiting and Harling

(b) In Memory of You ... Burke 8 38: THE A.B.C. ORCHESTRA— Rubeville Suite ... Lake 8 45: DOROTHY DEWAR AND JOHN PICKARD, in a Short Sketch, ev

titled-The Baroness and the Painter ... Molnes 8.55: FRANK PARSONS, Baritone—

(a) Roadways Lohi (b) A Farewell . . . Samuel Liddle 9.2: THE A.B.C. ORCHESTRA— Selection, "Three Musketeers . Frimt 9.15: WARWICK ARMSTRONG, Enter

The Schoolmaster

9.22: RUBY LESLIE, Soprano-Belfils

(a) Where Are You Now? . . (b) Ma Curly-headed Babby . . (9.29: THE A.B.C. ORCHESTRA-Clutsam

9-36: CLAUDE CORBETT WILL GIVE HIS SPORTING TALK. 9-56: THE A.B.C. ORCHESTRA— Valse Celebre Moszkowski

PICKARD, in a Radio Sketch, entitled-

A Railroad Adventure 10.16: THE A.B.C. ORCHESTRA—
"Maytime" Selection Romberg
10.25: Late News from "The Sun" and

"World." 10.28: Late Weather Forecast, 10.30: Close.



WARWICK ARMSTRONG, who will be heard from 2BL to-night.

SYDNEY, 316 Metres

Day Sessions as usual.
8.0: Orchestra Overture. 8.10: Soprano solo. 8.15: Storyette of Industry.
8.16: Violin solo. 8.20: D. Marwell, baritone. 8.28: Orchestra. 8.33: Dorothy wood entertainer. 8.41: Organ solo.
8.46: Tenor solo. 8.51: Piano solo.
8.56: Soprano solo. 9.0: Weather report. 9.3: D. Marwell, baritone. 9.11: Organ solo. 9.16: Violin solo. 9.21: Dorothy Wood, entertainer. 9.29: Band selection. 9.34: Tenor solo. 9.39: Flute solo. 9.44: Orchestra. 9.49: Choir. 9.54: Soprano solo. 9.59: Orchestra. 10.0: Instrumental music. 10.30: Resume of Saturday's sporting events. sume of Saturday's sporting events 10.45: Slumber music, 11.15: Close down

SYDNEY. 267 Metres

Day sessions as usual. During the afternoon, latest scores in the cricket match, South Africa v. Australia at Sydney, Second Test Match, at 12.5, 12.30, 12.45, 1 p.m., 1.15, 1.30, 2.39, 2.45, 3 p.m., 3.15, 3.30, 3.45, 4 p.m., 4.15, 4.30, 4.45, 5 p.m., 5.15, and 6 p.m.

5.15: Farmer's Children's Session, conducted by Uncle Jack and Jill 6.0: Farmer's Dinner Music 6.30: Fox-Hoyts Radio Club. 6.40: Musical Programme 7.30: Commentary on to-day's play in the Second Test Match, by Captain E. W. Ballantine. 7.45: Short commentary on the matches, South Australia v N.S.W., and Victoria v. Queensland. 7.50: Music. 8.0: Political Address, 9.0: Music 9.10: Result of Musical Competition 9.15: Victor Radio Session. 9.45: Music 10.30: Close down

SYDNEY, 293 Metres

Day Sessions as usual.

EVENING SESSION

6.0: Aunt Willa and Simple Simon 7.10 Resume of To-morrow's Races, Mr Tom Ellis, 7.30; Talk on Gliding, Mi E. E. Lyons.

8.1: Overture-"If I Were King." 8.10 Studio Programme. 8.50: Weather 8.53: Selections for Saturday, by Oscar Lind. 9.1: Pederal Labor Party. Final Appeal. 10.1: State Labor Party. Final Appeal. 10.30: Musical Selections, Birthday Calls, 11.0:

MELBOURNE, 375 Metres

Day Sessions as usual 2.0 About It and About—
"Children and Fairy Tales"—
Isobel Ann Shead.
2.20: The A.B.C. Women's Association—
Conducted by Hattle Knight.

AFTERNOON SESSION.

3.0: The Radio Players—
"Rustic Revels" (Pletcher).
3.8: Molly Mackay, Soprano—
"Rose Seftly Blooming" (Spohr).
"The Bird" (Fiske).
3.14: "The Master Four" in Harmonised Numbers.

The Biff (Fisker)

3.14. "The Master Four" in Harmonised Numbers—

"Waiting at the End of the Road."

"Come to the Fair."

2.20. The Radio Players—
"Language of the Flowers" (Cowen),

3.30. Margaret Kerr—
"Sliver Poplars," by Grace Crowell

"The Effin Artist," by Alfred Noyes,
"Summer," by Christina Rossetti,

3.26. Don Howley, "Cello—
Danse Rustique" (Squire),

3.40. Molly Mackay, Soprano—
"Flower Rein" (Schneider),
"To a Wild Rose" (MacDowell),

3.46. The Radio Players—
Selection: "The Damask Rose" (Clutsam),

3.56. Margaret Kerr—
"Christmas Surprises,"

"Christmas Surprises,"

"Christmas Surprises,"

"The Master Four" in Harmonised Numbers—

"The Master Four" in Harmonised Numbers—

"The Master Four" in Harmonised Numbers—

"Christmas Surprises,"

"Carlsting Surproved in Harmonised Numbers—

"Two Little Blue Little Eyes,"
"Two Little Blue Little Eyes,"
"The Girl of a Million Dreams" (Gay).

S: Mrs. Maurice Dudley and Rita Hilton
Present a Coster Sketch—
"Bill 'Awkins."

20: The Radio Players—
"It's Easy to Fall in Love" (Goetzi
"In the Shadow of the Rockles."

30: Close down.

During the afternoon progress scores in
the Second Test Match, South Africa v.
Australia, played at Sydney; also in the
Sheffield Shield Match, South Australia v.
New South Wales, played at Adelaide, willbe broadcast as they come to hand.

48: The Children's Corner.

EVENING SESSION

5.45: The Children's Corner.

EVENING SESSION

8.35: Recitals of School Literature—

"In a Queensland Jungle" (Price Fletcher).

"The Woman of the West" (G. Exsex Evansil.

"The Dignity of Labor" (Newman Hal).

—Mr. J. Howlett Ross, under the auspices of the Education Department of Victoria.

1.25: Gardening Notes—

"Bush House and Fernery"—

Mr. W. R. Hawkins, under the auspices of the Garden Wesk Committee.

"Caveman Football"—

Mr. G. S. Browne, M.A.

At approximately 7.0 p.m. "Slumps" in the Second Test Match, South Africa v, Australia, played at Sydney, also in the match, South Australia v, New South Wales, played at Adelaide, will be broadcast.

NIGHT SESSION.

NIGHT SESSION.

An Orchestral Concert by the

A.B.C. Wireless Symphony Orchestra, Conducted by

Percy Code.

Ceader: Edouard Lambert

Percy Code.

Leader Edonard Lambert.

Assisting Artists.
Alexander Raff. Bass.
Alexander Sverjensky, Planist.

2.0 A.B.C. Wireless Symphony Orchestra—
"Les Preludes" (Lisz!)
Alexander Raff. Bass—
Two Songs by Koeneman!
"The King and the Jester."
"When the King Went Porth to War."
Alexander Sverjensky, Planist—
Concerto No. 2 in C Minor (Rachmaninoff)
With Orchestra
Moderato—Adagio Bostenuto—
Allegro Scherzando.

2.0: My Scrap Book—
"Queer Tales"—
Bernard Cronin
Part II. of Orchestral Concert
(Relaying to 2FC and 2NC.)

1.15. A.B.C. Wireless Symphony Orchestra—
Symphony in E Minor, Op. 95—
"The New World" (Dvorak).
(Conclusion of Relay)
(Lexander Raff. Bass—
A Bracket by Martin Shaw
"A Stave of Roving Tim"
The Eggschell"
Cargoes"

The Orchestra—
Overlune "Ruy Blas" (Mendelssonne
Test Cricket
Transmission from 2FC. Sydney)

10.15. Summary of the day's play in the Sacand
Test Match South Africa y Australia plared
at Sydney.

10.30: A Resume of the day's play in the march
Victoria v Quernsland, nlaved at the Melbourne Cricket Ground.

10.48: Weather, etc.

11.50: Close down.

3AR

MELBOURNE, 492 Metres

MID-DAY SESSION.

MID-DAY SESSION.

12.0: Description of Sheffield Shield Cricket
Match, Victoria v. Queensland, at Melbourne
Cricket Ground.
Test Cricket (relayed from 2BL, Sydnavi.
1.15: A Relayed Description of Test Cricket,
Australia v. South Africa, at Sydney Cricket Ground.

AFTERNOON SESSION.

AFTERNOON SESSION.

2.0: Description of Sheffield Shield Cricket Match, Victoria v. Queensland, at Melbourne Cricket Ground.
4.15: Description of Sheffield Shield Cricket Match, Victoria v. Queensland, at Melbourne Cricket Ground.
5.40: Test Cricket (relayed from 2BL, Sydney)—A Relayed Description of Test Cricket, Australia v. South Africa, at Sydney Cricket Ground.
60: Stump Scores and Weather Data and Shipping Information, Close Down.
EVENING SESSIGN.

6.15: Dinner music.
7.32: Sporting Results. Stump Scores in Cricket Matches, Test Cricket al Sydney, Australia v. South Africa, and Sheffleid Shield Cricket, at M.C.C., Victoria v. Queensland.

NIGHT SESSION.

8.0: Everyday People:

"The Widow's Mile"—

Mr. Charles Nuttall.
8.20: Community Singing, transmitted from Mechanics Hall. Geelong, under the naton of Will Sampson.
10.15: News Seasion.
10.20: Close down.

BRISBANE, 395 Metres

Day sessions as usual.

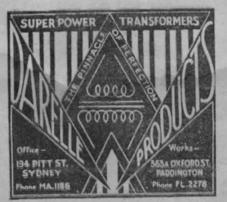
1.15: A description of the play in the Test Match between South Mirica and Australia will be broadcase from the Sydney Cricket Ground. Progress scores in the Sheffleid Shield matches between Queensland and Victoria, and South Australia and New South Wales, will be announced at intervals.

7.30: A.B.C. Sporting Session, including stumps drawn scores in the Second Test, and the Sheffield Shield Matches.

7.45: Mick Flanagan will review to-morrow's Races.

8.0: Mrs. Matthew's Codense Pleaser.

drawn scores in the Second Yest, and the Sheffield Shield Matches.
7.45: Mick Flanagan will review to-morrow's Races.
8.0: Mrs. Matthew's Cadenza Plectral Club and Banjo Band—Overture, "Glorianz" (Weidt).
1.co Crump and the Banjo Band, Popular Numbers
Clare Mathews, Violiniste—"Meditation" from "Thais" (Massenet).
1.co Crump and the Banjo Band, Popular Numbers
Clare Mathews, Violiniste—"Meditation" from "Thais" (Massenet).
1.co Crump Bande, Entertainer—
Ten minutes of Humor.
The Cadenza Plectral Club—
"La Dame Blanche" (Bolidieu.
8ally Miller, Soprano—"My Wonderful Garden."
"Somewhere a Voice" (Tate).
Mrs. Mathew's Banjo Band—"Mrs. Mathew's Banjo Band—"The Bandol's" (Stuart).
"Pals" (Squire).
"Somewhere a Voice" (Tate).
1.co Royal Automobile Club will broadcast a week-end Balletin for Motorists.
1.co Walse Espagna—"Lucia" (Bertram).
1.co Royal Automobile Club—"The Cadenza Plectral Club—"The Cadenza Plectral Club—"The Plate of June" (Day).
The Cadenza Plectral Club—"The Cadenza Plectral Club—"The Plate of June" (Day).
The Cadenza Plectral Club—Dance grotesque, "Chimney Corner" (Eno).
Albert Palk, Baritone—"The Mitting the Mrs. Once" (Lohr).
Clare Mathews, Vollniste—"Bolero" (Kabas).
1.co Crump and the Banjo Band—"Popular Numbers.
2. Humorous Interlude.
2. Mrs. Mathew's Cadenza Plectral Club—"Hitting the High Spots" (Weidt).
10.0: Final News Builetin.
10.15: A Review of the Day's Play in the



Second Test Match between South Africa and Australia, relayed from Sydney. 10.30 A Review of the Day's Play in the Sheffield Shield Match between Queensland and Victoria, relayed from Melbourne. 10.45 Dance Music. 11.0; Close.

ADELAIDE, 411 Metres

Day sessions as usual.

Day, sessions as usual.

During the day description of the Sheffleid Shield Match, South Australia v. New South Wales, will be broadcast by Len Pord and G. R. Pamprell from the Adelaide Ovsi, and scores of the Second Test Match, South Africa v. Anstralia, at Sydney, will be broadcast immediately they come to hand. Descriptions of the Second Test Match will be broadcast by relay from Sydney at 12.48 p.m. and 5.10 p.m.

43: From the Sydney Cricket Ground. Descriptions of the Second Test Match will be

45: From the Sydney Cricket Ground De-scription of the play in the Second Text Match, South Africa v. Australia. 10.45

EVENING SESSION

EVENING SESSION

5.10: Description of the play in the Second Test Match, South Africa v. Australia, 7.30: "Silvius" gives Selections for Kadina tomotrow, and discusses Christmas Racing, NIGET SISSION 7.55: Friday Night Musical Reproductions. ac: Meanderings by "Roffus." 8.20: A Symphony Orchestral Concert by the A.B.C Wireless Symphony Orchestra, relayed from 3LO. (See programme.) 9.45: Transmission from 2FC, Sydney. Summary of the day's play in the Second Test Match. South Africa v. Australia, played at Sydney 10.0: Sheffield Shield Cricket. A Resume of

Sydney.

10.0: Sheffield Shield Cricket. A Resume of to-day's play in the Sheffield Shield Match, South Australia v. N.S.W., at Adelaide Oval. by Len Ford. (Relayed to Sydney.)

10.15: News Session, 10.25: Art Cappean and his Rex Orchestra.

11.0: Close down.

PERTH. 435 Metres

Day sessions as usual. Tea adjournment and Stumps Drawn Scores, South Australia v. N.S.W., Victoria v. Queens-

South Australia v. N.S.W., Victoria v. Queensiand.

6.55: Stumps Drawn Scores. 1.0: Leo Ryen.
Sporting and Aihletic Review. 7.15: Russell
Sandeman, Encing Anticipations and Acceptsnees. 7.45: News Service.

8.0: Dajos Bela Orchestra, "Eliganteln" (Landent, "Electric Girl" (Holmes). 8.7: Herman
Finck and his Orchestra, "Melodious Memorres" (art. Finck). 8.15: The A.B.C. Cricket
Commentator will relay from Sydney his impressions of to-day's Test Match. 8.30: New
Light Symphony Orchestra, "Ballet Egyptien
Suite" (Luigini). 8.45: Aureliano Pertile, tenor,
"Ah Vieni amor mio" (Verdi), "Celeste Aida"
(Verdi). Bavenuto Pranci, Barikone, "O
Mighty Monument." Act 1, "La Gioconda"
(Ponchielli): "Fisherman, thy Bait now Lower,
Act 2 "La Gioconda" (Ponchielli) Ivar Andresen, Bass, "The Force of Destiny" (Verdi,
55: The Symphony Orchestra, "The Wand of
Youth" Suite (Elgar). 9.40: Musical Travelogue,
"Wardering midst Sun-kissed Beaches and
Coral Islands." 10.15: Announcements. 10.30:
To-day's Cricket Scores,
11.0: Close.

HOBART, 517 Metres

Day sessions as manal.

5.1. Children's Corner, with "The Rainbow Man" and "Smiler."

7.28. Educational Session. Madame Heien Ceorge, Talk: 'The Teaching of a Musical Appreciation."

7.40. Sporting Interlude.

7.45. Re-broadcast from 3LO, Melbourne, Eric Welch's Racing Selections for to-morrow's Races.

Races.
9: WZL's Dance Night. Music by TZL's Dance
Band. Interspersed with Vocal Recorded

Numbers.

9.45: Talk: "Popular Psychology—The Human Mind. Culture and Control," by F. S. Shaw 10.3: News.
10.15: Dance Music.
11.0: Close down.

NEW ZEALAND STATIONS

YA (Auckland).—Studio Concert by Salon Orchestra Rewa Hipwell (soprano), J. Ains-ley Daglish (tener), L. G. McKeown (banjo-lat), and The Asquiths (entertainers).

2YA (Wellington) —Miscellaneous Concert by Christina Young (contraito). W. Roy Hill and Charles Williams (tenors), Will Gaudie (baritones, W. Binet Brown (bass), and 2YA Orchestrina.

3YA (Christehurch) —Studio Concert by Hilda Hutt (sourano), Douglas Suckling (tenor), A J. Miles Cadman (bass-baritone), Muriel and Louie Waugh (banjo and piano duettists), and Studio Octet. Scenes from Shakespeare and Sheridan, by Naare Hooper and H. L. Shaw,

dya (Danedin) —Popular programme by The Pailharmonic Pour, Mrs. F. Peake imegas-soprano), Maud Kenward (contraito), J. Swan (tenor), P. M. Peake (baritone), L. Hunter ('cellist), A. H. Petitit (solo planist), and Instrumental Trio.

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Batery or A.C.
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m.a.



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SATURDAY. DEC.

2FC

SYDNEY. 451 Metres

Early Session
7.0 to 8.15 a.m. Relayed to 2NC to 8.5.

Morning and Afternoon Session to 2NC, Newcastle from 12.50 p.m.

IMPORTANT NOTE: Scores in the Match, South Australia v. N.S.W., played at Adelaide, will be given at the fall of each wicket, lunch and tea adjournments, and stumps drawn. Scores in the match, Victoria v. Queensland, played at Melbourne, will be given at lunch and tea adjournments and stumps drawn.

12.50: FROM RANDWICK: Description of the following races in the running-

The Hurdle Race.

2. The December Nursery Handicap.

The Villiers Stakes.

4. The Novice Handicap. The Holiday Handicap.

The Highweight Handicap.

NOTE: Description of the play in the Second Test Match (from the Sydney Cricket Ground), South Africa v. Australia, will be relayed to the National Stations between 1.15 and 1.30, 3.45 and 4 p.m.

At approx. 1.57 p.m.: Sectional Weather

At approx. 2 p.m.: A Glance at the afternoon "Sun" and "World."

4.35: FROM THE STUDIO. Late Sporting Results.

Early Evening Session
5.45 to 8.0 p.m.
(Relayed to 2NC, Newcastle.)

5.40: FROM THE SYDNEY CRICKET

5.40: FROM THE SYDNEY CRICKET GROUND. Description of the Second Test Match, South Africa v. Australia. Relayed to the National Stations.
6.0: Children's Stories by the "Hello Man."
6.45: BETTER FOODS FOR BETTER HEALTH—MR. R. E. FIGGIS, Vice-President of the New Health Society of N.S.W., will speak on "That Daily Dose of Iodine."
7.5: A.B.C. Sporting Service, etc.

EVENING PROGRAMME

8.0 p.m. to 2.0 a.m. (Relayed to 2NC, Newcastle.)

8.0: RESULTS IN THE FEDERAL ELEC-TION WILL BE BROADCAST AS RE-CEIVED THROUGHOUT THE EVEN.

FEDERAL ELECTION RESULTS

To-night From All Stations

(See special chart elsewhere in this issue)

DURING THE INTERVALS FROM THE STUDIO THERE WILL BE A MUSICAL PRESENTATION BY THE A.B.C. ORCHESTRA conducted by E. . ROBERTS.

10.15: A Talk on To-dav's Play in the Second Test Match. South Africa v. Australia, by the A.B.C. Sporting Edi-

Australia, by the A.B.C. Sporting Editor, relayed to the National Stations.

10.30: RELAYED FROM 5CL, ADE LAIDE: A Talk on the day's play in the match, South Australia v. N.S.W., played at Adelaide.

10.45: FROM THE STUDIO: Late Official Weather Forcest.

cial Weather Forecast. 10.47: FEDERAL ELECTION RESULTS. 2 a.m.: CLOSE.

SYDNEY. 351 Metres

Opening Session

8.15 to 11 a.m.

10.40: MR. GEORGE COOPER will speak on "GARDENING."

Midday Session

12.0; FROM THE SYDNEY CRICKET GROUND-A Description of the Second Test Match, SOUTH AFRICA v. AUS-

NOTE:-At approx. 12.10: Metropolitan forecast and weather synopsis will be given.

Between 1.15 and 1.30 p.m.: Descrip-tion will be relayed through the National Stations.

IMPORTANT NOTE:-Scores at the fall of each wicket, at lunch and tea adjournments, and stumps drawn in the match, SOUTH AUSTRALIA v. NEW SOUTH WALES, played at Adelaide. and at lunch and tea adjournments and stumps drawn in the match, VICTORIA v QUEENSLAND, played at Melbourne.

Afternoon Entertainment

2.15 to 6.0 p.m

2.15: FROM THE SYDNEY CRICKET GROUND-A Description of the Second Test Match, SOUTH AFRICA v. AUS-TRALIA.

NOTE:—Between 3.45 and 4 p.m.: A Description of the match will be relayed through the National Stations.

4.15: FROM THE SYDNEY CRICKET GROUND-A Description of the Second Test Match, SOUTH AFRICA v. AUS-TRALIA

NOTE: Between 5.40 and 6 p.m.; Description of the Match will be re-layed through the National Stations.

The Dinner Hour

EVENING PROGRAMME

(Relayed to 2NC Newcastle, between 8.6 and

8.0: FROM THE SYDNEY TOWN HALL, "THE MESSIAH," by THE WELSH CHORAL SOCIETY. Principals-

(See panel)

10.25: FROM THE STUDIO: Late News from "The Sun" and "World."

10.28: Late Weather Forecast.

10,30: FROM THE BALLROOM OF THE ORIENTAL:

Jim Davidson's Orchestra.

NOTE: FROM 10,30 p.m. to 2 a.m. RESULTS IN THE FEDERAL ELEC-TION WILL BE BROADCAST AT REGULAR INTERVALS,

2 a.m.: CLOSE.

2BL TO-NIGHT AT 8.0 FROM THE SYDNEY TOWN HALL



Handel's Immortal Oratorio THE MESSIAH

By the Welsh Choral Society

Principals:-

Ila Turbull, Soprano Marie Gordon, Contralto Fred Williamson, Tenor Oliver King, Basso Conductor—Dr. Cyril Jenkins Organist—G. Vern Barnett Leader of Orchestra-Lloyd Davies



SATURDAY, DECEMBER 19 (Continued)

SYDNEY,

316 Metres

7.0 a.m.: Breakfast Session, conducted by Miss Etta Field. Music. 7.8: News from "The Daily Telegraph." 7.15: Music. 9.0: Morning Musical Session 10.0: Storyette of Industry. 10.1: Music 11.30: Close down. 12.15: Saturday afternoon musical programme. by Lionel Music. 4.45: Unel. Music. 445: Uncle George's Tiny Tots' session. 5.0: Children's Session, by Uncle George. 6.0: Choco's Aeroplane Trip. 6.45: Music. 7.45: Storyette of Industry. 7.46: Piano solo by Clive Henry. 8.0: Musical session. 8.10: Storyette of Industry. 8.11: Musical session. 8.30: Shell Radio Dance Night. 12 midnight: Close down.

SYDNEY, 267 Metres

Day sessions as usual.

During the afternoon the station will be kept open for Cricket Results in the Second Test Match, played at Sydney Cricket Ground, interspersed with Music

5 14: Latest Scores, Second Test Match 5.15: Farmer's Children's Session. 6.0:
5.15: Farmer's Children's Session. 6.0:
Farmer's Dinner Music. 6.30: Fox
Movietone Radio Club. Latest Scores in
the Second Test Match. 6.40: Music.
7.30: Commentary on To-day's Play by
Captain E. W. Ballentine. 7.45: Short
commentary on the matches—South
Australia. 7.50: Music.
2.0: From Paline's Concept Hall, the

Australia. 7.50: Music

8.0: From Paling's Concert Hall, the drawing of the United Charities Art Union. 8.10: "Piebaid Philosophy by Percival." 8.20: Music. 8.30: First Federal Election results broadcast from the polling room of the G.P.O. 8.35: Music. 8.50: Election Results. 9.10: Music. 9.0: Election Results. 9.35: Music. 9.0: Election Results. 9.35: Music. 9.20: Election Results. 9.35: Music. 9.45: Election Results in Election. 10.25: Music. 10.35: Progress Results. 10.55: Music. 10.35: Progress Results. 10.55: Music. 11.0: Firstion Results, interspersed with Music, until counting ceases at approx. 1.45 a.m. Close down

SYDNEY. 293 Metres

Day Sessions as usual.

Children's Party, conducted by Sim-le Simon Special Christmas Tree presentation.

12.30: Description of the Races from Randwick, Mr. L. Melville.

Musical Selections, interspersed with races.

6.0: Auntie May and Simple Simon. 7.1: Late Sporting Results. 7.10: Health

Talk, T. Gordon Marsden.

8.1: Overture—"Pique Dame." 8.10: Selected Musical Programme, interspersed with Election Results. 9.1: Pirthday Calls and Requests. (Electon results as received). 10.1: Light Opera Selection—"Lilae Time." 10.15: Close down

3LO MELBOURNE, 375 Metres

Day sessions as usual.

During the afferhoon descriptions will be given of the amateur athletic championships at the Motordrome.

Sporting results, thehading progress scores of the Second Test Match—Australia versus South Africa—pieved at Sydney, also in the Sheffield Shield Match—South Australia versus New South Wales, played at Adelside, will be broadcast as they come to hand, and repeated at every half-hour.

Sporting descriptions will be interspersed with a Studio Programme of specially-selected recorded—music.

45 The Children's Corner Evening Session

1 1 Countryman's session. Stock Exchange information. Cern Exchange report, Associated

public, viz., the progress counts in the Federal Elections.

Music will be provided between the election news by the AB.C. Concert Orcrestra and the "Master Four" Quartette.

10.15: Test Cricket. Summary of the day's play in the Second Test Match—South Africa versus Australia—played at Sydney.

10.30: Sheffield Shield cricket. A resume of the day's play in the match—Victoria versus Queensland—played at the Melbourne Cricket Ground.

10.45: Weather, etc.

10.50: Dance music.

The station will remain open until the final election count for to-hight is available.

3AR MELBOURNE, 492 Metres

Day Sessions as usual.

MID-DAY SESSION.

12.1 Description of Sheffield Shield Cricket,
Victoria v. Queensland, at the Melbourne

Victoria v. Queensland, at the Memourne-Cricket Ground.

1.15. A Relayed Description of Test Cricket Match, Australia v South Africa, from Syd-ney Cricket Ground.

AFTERNOON SESSION.

AFTERNOON SESSION.

2.0: Description of Cricket Match at Meibourne Cricket Ground, Victoria v Queensland.

3.45: Test Cricket (Relayed from 2BL Sydney)
—A Relayed Description of Test Cricket Match Australia v. South Africa, from Sydney Cricket Ground.

4.15: A Description of Shetfield Shield Cricket Match, Victoria v. Queensland, at the Melbourne Cricket Ground.

5.40: Test Cricket (Relayed from 2BL Sydney—A Relayed Description of Test Cricket Match, Australia v. South Africa, from Sydney Cricket Ground.

6.0: Weather Data, Shipping Information, Stump Scarea, and Close down.

EVENING SESSION.

EVENING SESSION.

6.15: Dinner Music, supplied by the Radio Play-

ers.
7.32: Sporting Results. Stump Scores of Cricket Matches, Test Match, Australia v. South Africa, at Sydney Cricket Ground, and Sheffield Shield Match Victoria v. Queensland, at the M.C.C.

Africa, at Sydney Cricket Ground, and Shetneld Shield Match Victoria v Queensland at the M.C.C.

NIGHT SESSION.

10: A Variety Programme, with intermittent Dirt Track Events descriptions.

The A.B.C. Concert Orchestra will play—
"Two Light Syncopated Pieces" (Coales).
"Danses Miniature de Ballet" (Ansell).

Melodies from "A Country Chi" (Monckton).

Vell Dance: "Mystic Beauty" (Finek).
"Lily of Laguna" (Stuart).
"March Militaire."
"Florentina" (Fucik).

Stan Jones, Basso, will sing—
"The Lute Player" (Allitsen).
"The Song of the Tinker" (Bruest Elliott).
"Blow, Blow, Thou Winter Wind" (Syrgeant).
"Leanit" (Sternda's Bennett).
Jimmy Williamson, the Popular Comedian, will supply the lighter side of the Programme

Linda May, Soprano—
In a group of Light Popular Numbers "Little Blue Sun Bonnet" (Hemery)
"Irish Eyes Are Smillin" (Ball).
"Smillin Through" (Penn).
Note.—At intervals during the evening descriptions by Eric Weich of High Speed Racing at the Motordrome, and by Mel. Morris of Dirt Track Racing at the Eshibition, 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 abundoned. This will silow 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 other unforeseen circum-Hances.

20: News Session.

stances, 10.20 News Session, 12.0 Close

4QG BRISBANE, 395 Metres

Day Sessions as usual.

16: A Description of the Play in the Second Test Match between Australia and South Africa will be lelayed from the Sydney Cricket Chound.

The BATC Races will be described from the Albion Park course. Between Taces music will be briedcast from the studio.

Three-year-old Handicap.

Fiving Handicap.

Welter Handicap.

Novice Handicap.
The Plate.
The Plate.
The Purse.
Progress Scores in the Sheffield Shield Matches between Queensland and Victoria and South Australia and New South Wales.
will be announced at Intervals.
EARLY EVENING SESSION
6.0: Interstate Race Results.
7.0: Mick Finangan will review to-day's Races.
7.15: General Sporting News, including Stumps Drawn Scores.
7.37: Sailing Notes by Stan Phillips.
NIGHT SESSION
8.0: Billy Romaine and his Tivolians in a Musical Divertissment from the Tivoli Theatre.

Musical Divertissement from the Tivoli Theatre.

10: An Electrically Reproduced Variety Entertainment featuring—
Clem Williams, Baritore.
Gracis Fields, Comedienne.
Gil Dech, Pianist.
Elsie Suddaby, Soprano
George Olsen and his Music.
26: Joe Rivers will describe the main Wrestling Bouts from the Bohemia Stadium, South Brisbane.
10.0: Pinal News Bulletin.
10.15: A Review of the Day's Play in the Second Test Match between South Africa and Australia, relayed from Sydney.
10.30: A Review of the Day's Play in the Sheffield Shield Match between Queensiand and Victoria, relayed from Melbourne.
10.45: A Session of Meditation Music.
11.30: Close.

ADELAIDE,

Day sessions as usual.

During the day a description of the Sheffeld Shield Match. South Australia v. New South Wales, will be broadcast by Len Ford and G. R. Lamprell, from the Adelaide Oval, and Scores of the Second Test Match. South Africa v. Australia, at Sydney, will be broadcast immediately they come to hand. Descriptions of the Second Test will be broadcast from Sydney at 12.45, 3.15, and 5.10 p.m.

12.1. "Silvius" Selections for To-day's Races at Kadina.

12.45: From Sydney Cricket Ground, description of the Second Test, South Africa v. Australia.

12.45: From Sydney Cricket Ground, description of the Second Test, South Africa v. Australia.

During the afternoon a description of the Races at Kadina will be broadcast by Arhold Treloar Interspersed with Musical Numbers. At 3.15 p.m. a description of the Second Test Match from the Sydney Cricket Ground.

EVENING SESSION

5.50: All Sporting Results.
7.6: News Service. Cricket Scores in the Second Test Match. South Africa v. Australia, at Sydney, and the Sheffield Shield Match. South Australia v. New South Wales, at Adelaide.
7.50: Cricket Notes, by Len Ford.
7.15: Tennis Talk, by K. Berriman.
7.20: Rev. G. E. Hale, B.A., will deliver an interesting talk.
7.45: All Sporting Results.
NIGHT SESSION

NIGHT SESSION

S.E. Federal Election Night. The programme will be devoted to the broadcasting of the parameuml item of interest to the Australian public, viz., the Progress Counts in the Federal Elections.

Music will be provided between the Election news by the Serenaders Concert Party.

9.45: From 2HL, Sydney. Summary of the Day's Play in the Second Test Match, South Africa y Australia, played at Sydney.

10.0: From SCL Studio, Resume of To-day's Play in the Stæffleid Shield Match, South Australia v. New South Wales, at the Adelaide Oval.

10.15: News Session.

10.20: Dance Music and Popular Vocal Numbers. The station will remain open until the final election dount for to-hight is available.

PERTH. 435 Metres

Day sessions as usual.

During the day progress scores will be broadast of Second Test Match at Sydney, South ustralia v. New South Wales, Victoria v.

During the day progress secres will be broadcast of Second Test Match at Sydney, South
Australia v. New South Wales, Victoria v.
Queensland?
Race Results from Beimont Park Racecourse,
7.6 Saumps Drawn Scores, Second Test
Match, South Australia v. New South Wales,
Victoria v. Queensland, 7.20: Stale and Interstate Sporting Results
3.0 Radio Raythm, 8.15: The A.B.C. Cricket
Commentator will relay from Sydney his impressions of to-day's Test Match, 8.30: The
A.B.C. Vanderillians, led by Harry GrahamDorothy Manning, Soptano: Lou Vernon, Ensettainer; Harry Webster, Comedian, Phyllis
Giffett, Contrallo, Billy Edwards, Entercainer;
David Lyle, Tenor, Phyllis Blott, Panast 10.0.
Late Weather Forecast and Announcements,
10.30 To-day's Cricket Scores, 116: Clore

7ZL

HOBART, 517 Metres

E1. All Sporting Results.

E1. All Sporting Results.

T25. Jack O'Hartz, Talk "Bridge."

T45. Dinah Green surveys the Cricket Field.

C1. A Recorded Programme of Pastoral Music, interspetsed with Election Berutts.

SUNDAY

-- DEC. 20

2FC

SYDNEY, 451 Metres

The Church Hour

10 a.m. to 12.30 p.m 10.0: Announcements, Music, News.

11.0: Morning Service from the Churches of Christ.

> Afternoon Concert (3 p.m. to 4.30 p.m.)

CONCERT

FROM FULLERTON MEMORIAL CHURCH

arranged by

RONALD MARSTON, L.T.C.L.

Chairman: Rev. Geo. Cowie, B.A.

3.0: RONALD MARSTON, Organist-Hallelujah Chorus Handel

3.7: Prayer by Rev. Geo. Cowie, B.A.

3.10: ROCKDALE SALVATION ARMY SILVER BAND-

Gems from "The Messiah" Handel FULLERTON CHOIR— Maunder

Christians Awake ... 3.20: VOCAL QUARTETTE-While Shepherds Watched.

3.30: BANDSMAN WOOTTEN, Cornet

I Know That My Redeemer Liveth"

Handel

ROCKDALE SALVATION ARMY SILVER BAND-Christmas Carols-Holy Night.

Brightest and Best.

3.40: A Christmas Message from the Rev. GEO. COWIE, B.A.

4.0: IRIS HERON, Pianiste-Liebestraume Liszt

4.5: MALE VOICE PARTY-Comrades in Arms Adam

4.10: RONALD MARSTON, Organist-Shepherds Awake Guilmant Let Us Sing Noel Guilmant

4.20: BANDSMAN WHITLOCK, Vocal

All Is Well Coles 4.25: ROCKDALE SALVATION ARMY SILVER BAND—

Worthy is the Lamb Handel

4.30: CLOSE.

EVENING PROGRAMME

6.0 to 10.30 p.m. Relayed to 2NC between 6 and 7 p.m. and 8.30 and 10.30 p.m.

6.0: A RECORD RECITAL, with Anno tations by Discobolus.

6.30: COMMANDER C. H. ROLLESTON will tell listeners of "THE CARIBBEAN ISLANDS."

6.45: RECORD RECITAL. Continued. EVENING SERVICE FROM THE CENTRAL METHODIST MISSION, LYCEUM HALL:

Conducted by Rev. R. J. Williams. Choir Conducted by Mr. V. Peterson, B.A., B.Ec.

Anthem: "O Come All Ye Faithful." Anthem: O' Come Alf Te Fathful.
Introit, "Jesu Stand Among Us" (Mann).
Invocation, "Let the Words of My
Mouth," Hymn 767: "Jesus Shail
Reign," Brief Prayer and Lord's Prayer.
Hymn 128: "As with Gladness
Men of Old" (Kochner), Lesson, Gwyneth Lascelles, Soprano: "The Holy City".

(Adams). Prayer. Intimations and Offering. Anthem: "Christians Awake" Intimations and (Maunder). Hymn 122: "Hark the Herald Angels" (Mendelssohn). Silent Prayer. Sermon: Rev. R. J. Williams. Hymn 192: "My Heart and Voice I Raise." Benediction.

TO-NIGHT AT 8.30 * CONCERT

BY THE BONDI BEACH SYMPHONY ORCHESTRA



ALBERT B. BAILE.

Conducted by ALBERT H. BAILE

Assisting Artists-HEATHER KINNAIRD, Contralto. SENIA CHOSTIAKOFF, Tenor.

NOTE: At approx. 9.30 p.m .-"SIDELIGHTS ON OLD SYDNEY." 10,30: CLOSE.

SYDNEY, 351 Metres

Midday Session

(10,55 a.m. to 3 p.m.)

10.55: ANNOUNCEMENTS.

11.0: MORNING SERVICE FROM ST. JUDE'S CHURCH OF ENGLAND. Rector: CANON CAKEBREAD. Organist: MR. F. R. COOKE.

Organ Voluntary: "Chant Pastorale" (Dubois). Hymn: "Hark the Glad Sound." Confession—Absolution. Lord's Prayer, Versicles, Venite. Psalm 94—1st Lesson, Isaiah 32—Benedicite—2nd Lesson, St. Luke L., 26-45—Benedicite, Creed, Prayers. Anthem: "Hosanna in the Highest." Prayers, Notices. Hymn: "Once in Royal David's City." Sermon ke "CANON CAKERREAD, Hymn: "One" by "CANON CAKEBREAD, Hymn: Quickly Come Dread Judge of All. Benediction.

12.15: Music, News, etc.

12.40: A Specially Arranged Programme of Recorded Vocal and Instrumental

1.45: FROM MY EASY CHAIR, by A. C. C. STEVENS.

Late Afternoon Session

4.30: A RECORD RECITAL-

BRUNO WALTER AND THE SYM-PHONY ORCHESTRA (recorded)-Siegfried Idyll Wagner

4.45 "BRINGA" will speak on "THE BLACK HAND."

5.0: RECORD RECITAL (Continued) -ISOLDE MENGES, Violin, and HAROLD SAMUEL, Piano (recorded) -Sonata No. 3 in D Minor . . . Brahms
LOTTE LEHMANN Soprano (r.)
Franen liebe und leben . . Schumunn
LONDON SYMPHONY ORCHESTRA

(recorded)-

"The Fair at Syrotehinski, Moussorgsky Mlada Rimsky-Korsakoff

The Children's Hour

:6.0 to 6.50 p.m.)

6.0: The Children's Session, conducted by JUDITH.

EVENING PROGRAMME

(6.50 to 10 p.m.)

6.50: Recordings.

0: EVENING SERVICE FROM ST.
STEPHEN'S PRESBYTERIAN
CHURCH Preacher: REV HUCH
PATON Organist: HARRY CHAND-LER.

Sanctus, Invocation. Hymn 28:
"Bethlehem" (Mendelssohn). Lesson:
Isaiah 42. Prayer. Hymn 88: "St.
Magnus." Lesson: John 9. Anthem:
"And the Glory," from "The Messiah"
(Handel). Prayer. Hymn 31: "Adeste." (Handel). Prayer, Hymn 31: "Adeste " Sermon: Text, "THE LIGHT OF THE WORLD." John 8, 12. Prayer, Hymn 172: "Vox Dilecti." Benediction.

CONCERT

Relayed From 3LO, Melbourne

8.30; THE A.B.C. LIGHT ORCHESTRA-Selections from Merrie England German 8.40: J. HOWLETT ROSS-

"Last Days of Herculaneum Atherstone With Incidental Music with ARNOLD COLEMAN at the Grand Organ.

8.50: CHRISTINE FRAILLON, Ce'list-Serenade Braga
Harlequinade Squire
8.58: MELBOURNE PHILHARMONIC

SOCIETY (Conducted by WILLIAM G. JAMES)-

9.8: ALEXANDER SVERJENSKY, Pianist-

Poem .. Eugene Onegin-Concert Paraphrase Tschaikoresky-Pabst

9.18: THE A.B.C. LIGHT ORCHESTRA— Ballet Suite, La Source . . . Delibes 9.28: MELBOURNE PHILHARMONIC SOCIETY-

The Twenty-ninth Psalm -Elgar With Orchestral Accompaniment

9.35: THE A.B.C. LIGHT ORCHESTRA-

Kamenoi Ostrow Rubinstein 9.45: ISABEL BIDDELL, Contralto-

Devotion Schumann Standchen Strauss

9.52: J. HOWLETT ROSS-A Child's Dream of a Star Dickens 9.59; Late Weather Forecast.

10.0: CLOSE.

SUNDAY, DECEMBER 20 (Continued)

SYDNEY, 316 Metres

9.0 a.m.: Music from Studio.

10.25: Organ music from St. Alban's Church, Regent Street, Sydney.

10.30: Morning Service.

12:30: Close down.

2.0: Afternoon Musical Session.

3.0: The Radio Domain, conducted by Uncle Frank, from Savoy Theatre.

5.0: Radio Sunday School, 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: From Savoy Theatre, address by Mr. Harold Morton. "Strange Psychic Adventures

8.20: Music.

A Programme by Australian Artists

8.30: Orchestra-

"Hungarian March" (Berlioz)

8.36: Soprano Solo—
"Blue Danube" (Strauss).

"Voices of Spring" (Strauss)

8.46: 'Cello solos-

"Londonderry Air" (Arr. Kennedy),
"Old Scotch Melody" (Arr. Kennedy).

8.56: Bass solo-

"The Mighty Deep" (Jude).
"Song of the Volga Boatmen" (Gainsberg).

9.6: Band selection-

"Pagliacci-On with the Motley" (Leoncavello)

"The Switchback" (Sutton).

9.14: Flute solo— "Concert Piece" (Hoffmann) "Concertino" (Chaminade)

9.24: Baritone solo-"Invictus" (Huhn)

"Trees" (Rasbach) 9.32:

Orchestra-'Coppelia Ballet" (Delibes).

9.38: Contralto-

"Caller Herrin" (Traditional)
"Five Little Piccaninnies" (Anthony).

9.46: Piano solo-

"Shepherds, Hey" (Arr. Grainger), "Country Gardens" (Arr. Grainger),

9.52: Baritone solo-

Travel the Road" (Thayer), 10.0: Close down.

SYDNEY.

10.30: Music and Request Items. 11.0: "Concerto No. 4 in G Major," for Piano and Orchestra (Beethoven). 12.0: Music and Request Items. 1.0: Close down.
3.0: Music. 3.30: "Unfinished Symphony" (Schubert). 4.30: Request Numbers. 5.0: Close down.

phony" (Schubert). 4.30: Request Numbers. 5.0: Close down.
5.15: The Quiet Hour: Memories of Sullivan (Sullivan). 5.23: Organ, Bridal March. 5.27: Song. For Unto Us, Mossiah (Handel). 5.30: Orch., Rosenkavalier Waltz (Strauss). 5.38: Song. Glory to God (Handel). 5.42: Orch., Hungarian Rhapsody No. 1 (Liszt). 5.57: Violin, Goin' Home (Dvorak-Kreisler). 5.0: Song. To the Children. 6.4: Organ. 6.0: Song, To the Children. 6.4: Organ Postlude in C. 6.12: Violin, Song of Volga Boatmen (Kreisler). 6.16: Octet, Octet in E Flat Major (Mendelssohn). 6.30: Plano Recital by Frank Hutchens. 7.0: Musical Programme.

Note.—If the result of the Federal Elections is still in doubt, further re-sults will be given from the Tally Room

of the G.P.O. during the evening. 8.45: Shuron Programme, "Your Eyes." Piano, Alice, Where Art Thou (Ascher). 8.48: Vocal, Queen of the Earth (Pinsuti) 8.52: 'Cello, Flowers of the Forest (Scotch). 8.56: Trio, That Tiny Tea-8.52: shop (Raymond). 9.0: Operatic Session. Selected Scenes from Parsifal (Wagner). 10.0: Music. 10.30: Close down,

SYDNEY, 293 Metres

MORNING SESSION.

11.0: Mass from St. Mary's Basilica. 1.0: Close down.

EVENING SESSION.

6.0: Music 6.15: Talk on Religion, by Rev. Monsignor Meany. 7.15: News from the various Catholic Journals of the World. 7.30: Address by Rev. Father Thompson, interspersed with Musical Selections. 8.1: Overture, "Bohemian Girl." 8.10: Selected Studio Programme. 9.1: Birthday Calls and Requests 10.1: Light Opera Selection -"Mikado." 10.10: Music. 10.15: Close down.

BRISBANE, 395 Metres

MORNING SESSION

10.30: Music and news.
 11: The Morning Service will be broadcast from All Saints' Church of England, Wickham Ter-race, Brisbane.
 12.15: Close

AFTERNOON SESSION

A recital by Wallace Kotter at the Wurlitzer organ of the Regent Theatre. Between organ selections reproduced vocal numbers will be broadcast from the Studio. The programme will include the following by Mr. Kotter:—"Ah! Sweet' Mystery of Life' (Herbert): "Medley of Christmas Carols;" "Angelus" (Grieg):

MELBOURNE. 375 Metres

MORNING SESSION

10.0: Federal Election Results. Latest Cricket Information. Programme Review. 10.30: Bells of St. Paul's Cathedral.

10.30: Bells of St. Paul's Cathedral.

11.0: Service from Baptist Church, Collins Street, Melbourne.

Order of Service: Invocation, Lord's Prayer (Choral), Hymn, Scripture, Chant, Children's Address, Children's Hymn, Notices, Offertory, Offertory Prayer, Anthem, Prayer, Hymn, Sermon (Rev. W. D. Jackson, B.A.), Hymn, Benediction Christmas Carols, under the direction of Madame Ella Kingston 12.30: Close down.

AFTERNOON SESSION

3.0: Pleasant Sunday Afternoon Service from Wesley Church Central Mission.

4.30: Close down.
6.0: The Children's Corner.
6.15: The Optimists' Chorus Singers.

EVENING SESSION

7.10: Glimpses of Modern America—"Carifornia, the Golden State," Mr. G. S. Browne, M.A. 7.35: "The News Behind the News," by "The Watchman."

NIGHT SESSION

A.B.C. Light Orchestra (conductor: Percy Code)—
A Christmas Overture" (Coleridge Taylor).

Iswel Biddell, Contralto-hilst I With Grief Did On You Look" (Purcell).
"Bright is the ding of Words" (Vaughan Williams).

Williams).

8.17: Alexander Sverjensky, Plano—
A Chopin Bracket:
"Nocture in F Sharp Major."
"Impromptu in F Sharp Major."
"Etude No. 3 in E Major."
"Etude No. 4 in C Sharp Minor."
Remainder of programme relayed to 2BL. Secoverleaf.

10.30: Close down

MELBOURNE, 492 Metres

MORNING SESSION.

11.0: Service from Wesley Church, Meibourn-Order of Service: Doxology: Invocation; Hymn; Scripture Reading; Solo; Anthem; No-tices; Hymn; Sermon, Rev. J. H. Cain; An-them; Hymn; Benediction; Organist, Mr. Wil-liam Q. James.

MID-DAY SESSION.

12.15: A Studio Programme of Special Reproduced Music

"Selection of Favorite Hymns."

Band of H.M. Royal Air Force, with Vecal Quartette

'Prometheus Overture" (Beethoven), 'Finale Eroica Symphony" (Beethoven).

-Symphony Orchestra, conducted by Albert Coates.

"Ave Maria in Venedig" (Thiel).
"Ave Verum" (Mozart).

-The Basilica Choir, Berlin, Songs Without Words" (Mendelssohn).

Hunting Song-Venetian Gondola Song.

-Ignaz Friedman, Pianoforte.

"Folk Songs" (Arr, C. J. Sharp).
"The Bonny Lighter Boy," "Dance to Your Daddy,

'A Parmer's Son So Sweet," "On a Sunny

-Annette Blackwell, Soprano, with Piano. Songs Without Words" (Mendelssohn).

-Ignaz Friedman, Planoforte. 'First Psalm of David" (Traditional). God Hear My Prayer" (Archangelsky).

Don Cossacks Choir: Conductor, Serge Jaroff.

Selection from "Princess Ida" (Sullivan).

-New Light Symphony Orchestra; Conductor, Dr. M. Sargent.

"O Mistress Mine" (Sullivan). "Maid of Athens" (Allen).

tor, Dr. M. Sargent.

"O Mistress Mine" (Sullivan).

"Maid of Athens" (Allen).

—Prancis Gleeson, Tenor, with Piano.

"The Thistle," Selection of Scotch Airs (Arr. Myddieton).

—The London Orchestra.

Vocal Gems from "Rigoletto" (Verdis.

—Light Opera Company, with Orchestra.

"Serenade Millions D'Arlequin" (Drigo).

—Albert Santler, Violinist, with Piano.

1483. "Questions and Answers."

2118. Arnold Coleman at the Grand Organ—Will filustrate the Story of the Opera.

"Lucia di Lammermoor," by Donizetti

3.0 Close down.

AFTERNOON SESSION.

430: Special Production of

"The Messiah," by Handel.

Dora Labbette, Soprano.

Muriel Brunskill. Contraito

Herbert Eisdell Tenor.

Harold Williams, Baritone.

The B.B.C. Choir and Sir Thomas Beecham's Orchestra.

The whole performance under the direction of, and conducted by, Sir Thomas Beecham.

No performance of Christmas music would be complete without the rendering of Handel's "Messiah," an oratoric that is sung in every English-speaking country at Christmas
tide. Handel makes use of his extensive knowledge of Opera and often utilises the choir as a dramatic medium. Especially is this noticeable in the "Messiah," when the magnificent "Hallelujah Chorus" sounds the clarion of victory. When "The Messiah" was first produced in Dublin, in 1742, it was not well recieved, but, contrary to general expectations, on its subsequent production in London in 1745, where it achieved an instantaneous success, it attracted the English people and since that time there has been no dearth of performances. On April 6, 1759, Handel presided at an Organ performance of "The Messiah," and died on April 14. It should be remembered that at the first performance of "The Messiah" the magnificence of "The Messiah" and died on April 14. It should be remembered that at the first performance of "The Messiah" the magnificence of "The Messiah" and died on April 14. It should be remembered that at the first performance of "The Messiah" the magnificence of "The Messiah" and offen use of the National An

Service from St Paul's Cathedral, Mel-

EVENING SESSION.

7.0: Service from St Paul's Cathedral, Melbourne.

Order of Service: Hymn; Sentence; Exhortation; General Confession; Absolution; Lord's Prayer; Psalm; First Lesson; Magnificat; Second Lesson; Nunc Dimittus; The Creed: Collects; Anthem; Prayer; Hymn. Sermon, Canon Langley.

830: From the Studio—Programme arranged by Professor Bernard Heinze, F.R.C.M.

(Relayed to 2BL, Sydney.)

Artists: Constance Ziebell, Violinist; Roy Fartakover, Baritone; Winifred Oardner, Mezzo-Soprano; Roy Shepherd, Planist.

"Sonata for Planoforte and Violin" (Haydn). Andante—Allegro.

Songs: (a) "Per la Gloria" (Buononcini).

(b) "Se su m'smi" (Pergolese).

Planoforte: Sonatina, Opus 137-1 (Schubert).

Allegro moito; Andante; Allegro Vivace.

Recitative: "Thus Saith the Lord" (Handel).

Aria: "But Who May Abide" (Handel).

Violin: "Swing Song" (Ethel Barnes).

"The Bee" (Francois-Schubert).

Songs: (a) "Dream Valley" (Quifter).

(b) "Anne's Cradle" (Armstrong Gibbs).

Sonata for Planoforte and Violin in A Major,

Op. 100 (Brahms).

Allegretto grazioso.

Songs: (a) "The Dew it Shines" (Rubinstein).

(b) "The Azra" (Rubinstein).

Planoforte: "The Girl With the Flaxer Hair" (Debussy).

"Reflections in the Water."

"Songs My Mother Taught Me" (Dvorak);
"Hymns of the Old Church Choir;" "Intermezzo-Cavalleria" (Mascagni); "Medley of
Christmas Hymns;" "The Holy City" (Adams); "Waltzing Doll" (Poldini); "The Old Refrain" "Waltzing Doil" (Poldini); "The Old Refrain" (Kreisler); "Gloria in Excelsis Deo" (Old French); "Silver Threads Among the Gold;" "Adestes Pideles" (Trad.); "Love's Old Sweet Song" (Molloy); "Jesu Bambino" (Turton). 4.30: Close

EARLY EVENING SESSION

6: A Special Children's Service.

6 30: The Children's Own Hour-"Uncle Ben" and Co.

NIGHT SESSION

7.30: Benediction will be broadcast from St. Stephen's Roman Catholic Cathedral, Bris-

8.45: Relay from 2FC. (See Programme.)

5CL

ADELAIDE. 411 Metres

MORNING SESSION

11.1: Morning Service from Unitarian Church, Wakefield Street. Preacher, Rev. G. E Hale, B.A.

12.30: Close down.

AFTERNOON SESSION

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

4.30: Close down.

EVENING SESSION

6.0: Children's Birthday Greetings.

7.0: Evening Service from Pirle Street Methodist Church. Preacher, Rev. J. O. Jenkin.

NIGHT SESSION

\$.30: Relay from 3LO (see programme).

9.50: News session.

10.0: Closs.

8:48: The A.B.C. Light Orchestra-Ballet Suite, "Le Source" (Delites).

8.58: Melbourne Philharmonic Society—"The Twenty-ninth Psalm" (Elgar), with orchestral accompaniment.

\$.5: The A.B.C. Light Orchestra—"Kamenoi Ostrow" (Rubinstein).
\$.15: Isabel Biddell. Contraito—"Devotion"

(Schumann), "Standehen" (Strauss). 9.22: J. Howlett Ross—"A Child's Dream of a Star" (Dickens).

9.30: The A.B.C. Light Orchestra-"Berceuse" from "Jocelyn" (Godard); "Music Box" (Friml); "Gavotte and Musette" (Raff).

9.40: From 5CL Studio-Sunday Night Celebrity Reproductions. 9.50: News session.

10.0: Close down.

HOBART. 517 Metres

11.0: Divine Service this morning will be broadcast from Holy Trinity Church, Hobart. Prescher: Archdeacon Blackwood. 3.0: A Programme of pleasant Sunday after-noon Music.

EVENING SESSION

EVENING SESSION

6.0: Children's Community Singing.

8.45: Original Tales and Stories.

7.0: Evening Service from Davey Street Congregational Church, Hobart. Preacher: Rev. H. J. Ralph.

830: A Concert Programme by the Franklin Methodist Church, under the direction of Mr. D. H. Thomas.

Soloists: Mrs. Cameron, Contralto; Lila Harvey, Soprano; D. Thomas, Baritone.

9.45: News.

10.0: Close down.





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& THE 2GB WOMEN'S SERVICE &

THE CARE OF GOLDFISH AND THE LIGHTING OF THE AQUARIUM.

When lighting an aquarium never in-When lighting an aquarium never introduce the electric lamp right in the water, so that the water can creep along the cord, making a dangerous connection. This will very likely electrocute the fish, and as aquariums are usually kept in a damp porch or tiled verandah every care should be taken that the person handling the attachments should be safeguarded. There is a well-insulated rubber-covered flexible wire which is very suitable for connection. wire which is very suitable for connections, and whatever method you employ

for your lighting scheme be sure to have

it properly installed and tested. The most effective method is to have one or two striplights resting on the glass top of the aquarium, and raised slightly above it for ventilation. Do not on any account have clear glass lamps unless you put a strip of ground glass between them and the aquarlum, as the naked bright light is extremely harmful to the fish and tends to blind them

Frosted lamps are quite suitable, and the effect of one or two colored lamps could be tried.

If you keep tropical fish, and they are

the most fascinating colored creatures, you should have some method of heating the water to a suitable temperature and guard against any sudden drop in temperature. This can be done by putting a very small candle power electric lamp inside a glass or otherwise watertight container, so that there is no possibility of the lamp itself or any of its connections coming in contact with the water. The small amount of air in the container is then heated up and the heat gradually distributed to the water. The water should be kept at about 70deg, to 75deg, Fahrenheit, but it may be allowed to go to 85deg, during the hottest time of the year, or as low able temperature and guard against any the hottest time of the year, or as low as 65deg, during the winter; the changes always must be very gradual. A ther-mometer is absolutely necessary with a mometer is absolutely necessary with a tropical tank, so that you can watch the temperature for yourself. When handling lights or heating apparatus always remember to turn them off at the switch first, as you will probably have damp hands and perhaps be standing on a concrete floor. Keep your "safety first" motto in mind, also see that everything is safely and correctly installed and tested in the first place. Answers to further inquiries will be made by Mrs, MacKenzie during the morning talk on Kenzie during the morning talk

CRYSTALLISED CHERRIES. — To every lb. of cherries allow lb. of sugar and 1 cup of water. Make a syrup of the sugar and water, boil ten minutes. Put the cherries in; boil another ten minutes, then put them in a bowl. Next day drain the syrup from the cherries boil, pour while boiling over the fruit; repeat this for three days. On the fourth day boil the syrup with lb. of extra sugar added to every lb. of fruit; put cherries in this, boil ten minutes Place them on a sieve, sprinkle with coarse sugar; when drained a little place on paper and put in the air to dry. CRYSTALLISED CHERRIES. - To

CHERRY CONSOME.-Allow 11b. of sugar to each lb. of fruit, and 1 pint

sugar to each lb. of fruit, and 1 pint of water to each slb of sugar and whatever juice comes from the fruit. Boil syrup very fast for ten minutes; meanwhile have a pan of water boiling, into which just plunge the cherries placed in a colander, strain, and throw into syrup; boil till cherries are tender and the syrup thick.

CHERRY BUTTER.—Three cups of pulp and 2 cups of sugar. Boil till

pulp and 2 cups of sugar. Boil till thick. (Choose firm, ripe fruit.) Put cherries in with a little water; when cooked rub through a sieve, add the sugar, cook till thick.

HOW TO MAKE A GOOD TRIFLE—

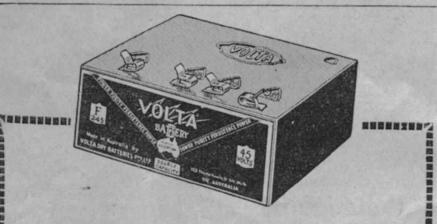
Cut up a good sponge cake and spread with iam; pour over a glass of sherry. Make a custard with three or more eggs, a quart of milk, and a teaspoonful of arrowroot and one large teaspoonful sugar. When cold pour over the cake. Whip up one half-pint of cream, spread on trifle, and decorate with blanched almonds or ratafias.

Brandy snaps filled with whipped cream are sometimes served with this trifle.

MINCEMEAT FOR XMAS PIES.—11b MINCEMEAT FOR XMAS PIES.—11b currants, 11b raisins, chopped small, 11b. mixed peels, 11b. citron peel cut very finely, 11b. beef suet, 11b. apples minced. Mix all well together, then add 11b. brown sugar, 10z, spice, grated rinds of 3 lemons and 3 oranges. Press into an earthenware jar, add 1-pint of good brandy, cover tightly.

This last may be included with the recipes for Xmas cake and pudding

recipes for Xmas cake and pudding.



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DEC. 21 MONDAY

2FC

SYDNEY. 451 Metres

Early Session

(Relayed to 2NC, Newcastle, 7 to 8.15 a.m.)

Morning Session

10.30 a.m. to 12.30 p.m

(Relayed to 2 NC between 10.40 a.m. and 12.0 noon.)

Cricket: Scores in the match South Australia v. N.S.W., played at Ade-laide, will be given at the fall of each wicket, lunch and tea adjournments, and stumps drawn. Scores in the match Victoria v. Queensland, played at Melbourne, will be given at lunch and tea adjournments and stumps deawn.

The Lunch Hour

1-15: FROM THE SYDNEY CRICKET GROUND-Description of the Second Test Match, South Africa v. Australia, relayed to the National Stations.

The Radio Matinee

2.15 to 4.30 p.m. (Relayed to 2NC from 2.30 p.m.)

2.15: Description of the Second Test Match, Australia v. South Africa.

4.0: KETELBEY'S CONCERT ORCHES

TRA (recorded)-

A Group by Ketelbey— Cockney Suite, Bank Holiday,

Jungle Drums. 4.8: CLAIRE DUX, Soprano (recorded)-

In the Time of Roses Reichardt 4-II: CEDRIC SHARPE, 'Cellist (r.)-Melody in F Rubinste

Rubinstein

4-18: META SEINAMEYER, JARO DWORSKY, and EMANUEL LIST, In-strumental Trio (recorded)— Faust-Make Haste, M. L.

4.22: THE SOUTHERNERS, Dance Band (recorded)-

Teardrops and Kisses Little Good-night, Sweet Dreams . . Solomon Little

Early Evening Session

5.40 to 8 p.m. Relayed to 2NO. Newcastle, between 5.40 and 6.45 and 7.5 and 8.0 p.m.

5.40: Description of the play in the Second Test Match, South Africa v. Australia, relayed to the National Sta-

6.0: Children's Stories, by the "Hello Man" and Aunt Eily.

6.45: THE BOY SCOUTS AND GIRL GUIDES SESSION.

7.5: Sporting Service, etc., etc.





BAREND HARRIS and FRANK RYAN at Ashfield to-night.



who will be heard during the community singing concert to-night.

EVENING PROGRAMME

(Relayed to 2NC Newcastle between 8 and 11.0.

★ TO-NIGHT AT 8.0 ★

From the Ashfield Town Hall

Community Singing

Under the direction of

CHARLES LAWRENCE

Assisting Artists-GRACE QUINE and EILEEN BARLOW, Vocalists-

I'm Alone Because I Love You Young I've Got One Arm Round Mary, Elton Macushla MacMurrough Watching My Dreams Go By,

Dubin and Burke Heartaches Klenner and Hoffman

If You're Really and Truly in Love, Butler and Wallace

Cause I'm in Love Donaldson Nine Little Miles, Sherman, Lewis, and Conrad

FRANK RYAN, Comedian— I Wonder if My Mother Ever Knew,

Lawrence The Miner's Story BAREND HARRIS, Basso-Newman Off to Philadelphia

tional Stations. 10.30: Relayed from 5CL, Adelaide—A talk on the day's play in the match, South Australia v. N.S.W., played at Adelaide.

10.45: Weather Forecast. 10.47: Dance Music from Romano's. 11.30: CLOSE.

SYDNEY. 351 Metres

Opening Session

8.15 to 11.0 a.m. 10.35: A.B.C. WOMEN'S ASSOCIATION. Tennis Queries and Their Answers. Intimate Facts About Fashion, by Mrs. Mary Liddell.

Midday Session

12 noon to 2.30 p.m.

(Relayed to 2NC, Newcastle between 12.0 and 1.30 p.m.)
12.0: FROM THE SYDNEY CRICKET

GROUND-

A Description of the Second Test
Match, South Africa v. Australia.
Between 1-15 and 1-30 p.m. a description of the play will be relayed through the National Stations.

Scores at the fall of each wicket, at lunch and tea adjournments, and stumps drawn in the match, South Australia v. N.S.W., played at Adelaide, also at lunch and tea adjournments and stumps drawn in the match, Victoria v. Queensland, played at Mel-Victoria v. Queensland, played at Melbourne.

Afternoon Entertainment

2.30 to 6.0 p.m.

2.30: NEW QUEEN'S HALL LIGHT OR-CHESTRA (recorded)-

Petite Suite de Concert,

Coleridge Taylor

La Caprice de Nanette.

Demande and Response. 2.38: DORIS VANE, Soprano (recorded) A Song of Thanksgiving Allitsen

2.42: W. H. SQUIRE, 'Cellist (r.)—Si mes vers avaient des alles . Hahn 2.45: THE WOMEN'S HOUR.
C.W.A. News, by Miss Ferguson.
The Noble Work of Elizabeth Fry, by

Miss Curtin.

New Zealand, with Mrs. Touring Schmitt.

Christmas Play Reading, by Mise Doris Fitton.

3.45: SIR THOMAS BEECHAM AND THE ROYAL PHILHARMONIC OR-

CHESTRA (recorded)— Summer Night on the River Delius NINON VALLIN, Soprano (recorded)

Solveig's Song ... Grieg 3.57: IGNAZ FRIEDMAN, Pianist (r.)— Songs Without Words .. Mendelssohn 4.9: SELECTIONS.

FROM THE SYDNEY CRICKET GROUND-

A Description of the Second Test Match, South Africa v. Australia.

The Dinner Hour

6.15: THE A.B.C. STRING SEPTET.
7.35: THE UNIVERSITY EXTENSION
BOARD LECTURES—AUSTRALIAN
EXPLORATION—

Mr. G. V. PORTUS, M.A., B.Litt., will lecture on:

"LEICHHARDT AND KENNEDY'

THE second series of exploration began with Adelaide as a base. They were continued from Queenslandnot then a separate colony. Ludwig Leichhardt came to Sydney in 1841, and was attracted to exploration. With private backing he organised a party, and set out to pierce the north (1844). In ten months he penetrated to the Gulf of Carpentaria, skirted it, struck across Arnheim's Land, and reached Port Es-sington—the most northerly settlement sington—the most northerly settlement in Australia. On his return to Sydney he had a hero's welcome, and funds—both public and private—were quickly supplied for a more ambitious project—the crossing of Australia from east to west. With a huge equipment he started off (1846), but was back in the started off (1846), but was back in six months without having accomplished anything. Again (1848) he started out to cross to Perth-this time very ill-prepared. But

MONDAY, . DECEMBER 21, (Continued) 2UW

he was never seen again. His fate is an

unsolved mystery.

Meantime, Sir Thomas Mitchell had opened up the Western Darling Downs, and his lieutenant, Kennedy, in 1848, started on his fatal journey to explore the promontory of Cape York. The story of this attempt is a tragic one, redeemed by the heroism of Jacky—Kennedy's faithful black boy. Ten out of the thirteen explorers perished. Ken-nedy's expedition concludes the second series of explorations. Books to be consulted:-

The History of Australian Exploration

by Ernest Favenc.

Australian Discovery, Vol. II.—By Land, edited by Ernest Scott. Australasian School Atlas. Bartholo-

mew and Cramp.

EVENING PROGRAMME

8.0 to 10.30 p.m.

ORCHESTRAL CONCERT

THE NATIONAL BROADCASTING ORCHESTRA, conducted by E. J. Rob-

The Force of Destiny Overture Verdi 8.7: BARBARA RUSSELL, Soprano— A Group by Phyllis Norman-Parker—

(a) Quies-Amoris.
(b) Jack o' Lantern.
(c) November's Thrush.
Golden Hair Frank Bridge
8.15: THE NATIONAL BROADCASTING ORCHESTRA—

Ethiopian Rhapsody Hosmer

TO-NIGHT AT 8.24 *



HAAGEN HOLENBERGH, Pianist, and CYRIL MONK, Violinist, playing

Sonata Allegro,

Allegretto Amabile, Andante Sestenuto, Allegro con brio.

8.44: CLIFFORD LATHLEAN, Basso-

A Group by Brahms—
Klage (Plaint),
Von Ewiger Liebe (Love Eternal).
51: THE NATIONAL BROADCASTING ORCHESTRA—
Delibes

Ballet Sylvia Delibes
9 1: BARBARA RUSSELL, Soprano—
La Nuit Tschaikowsky Romance Debussy Le Furet du Bois Joli . . De Breville

TO-NIGHT AT 9.8 *



CYRIL MONK,

in association with

THE NATIONAL BROADCASTING ORCHESTRA.

conducted by E. J. ROBERTS,
playing violin.
Concerto in D Minor Wienia Wieniawski Allegro, Romance, Alla li Zingara.

9.30: CLIFFORD LATHLEAN, Basso-. Liddle Old French Carol

9.33: HAAGEN HOLENBERGH, Pianist-

Scherzo in E Flat Minor, Op. 4, Brahms

9.43: THE NATIONAL BROADCAST-ING ORCHESTRA— Oxford Symphony ..

10.3: CLIFFORD LATHLEAN, Basso-

Two Carols by Eric Thiman -As Joseph was a-Walking, I Saw Three Ships,

10.6: THE NATIONAL BROADCAST-ING ORCHESTRA—

Dance Macabre Saint-Violin Soloist, W. J. GRIEVES Five Modern Songs Arr. Savions

(a) Elegie Massenet

(b) Cradle Song Brahms (c) One Who Has Learned Alone,

Tschaikowsky (d) Mandoline Debussy

(e) I Love Thee Grieg

10.25: Late News from the "Sun" and "World

10,28; Late Weather Forecast.

10.30: CLOSE.

SYDNEY. 316 Metres

Day Sessions as usual.

8.0: Orchestra-

Overture, "Pirates of Penzance" (Sullivan).

8 10: Tenor Solo-

"Boat Song" (Harriet Ware).

8.15: Peggy and Pam will entertain you-"All I Can Hope About is You" (Little)
"I Only Hope That You're Not Fooling Me" (Rich).

8.25: Orchestra-

"Scarf Dance" (Chaminade)

8.30: Pam and Her Violin-"Ah, Moon of My Delight" (Lehmann), "Nymphs and Fauns" (Logan).

8.38: Baritone Solo-"Boots" (McCall)

8.43: Orchestra-"The Flatterer" (Chaminade)

8.48: Organ Solo-"Longing" (Wood) 9.0: Weather Report

9.3: Peggy at the Piano—
"Just Like a Melody Out of the Sky" Donaldson).

"My Canary Has Circles Under His Eyes" (Golden).

9.13: Tenor Solo-

"To a Miniature" (Brahe) 9.18: Orchestra—

"El Tango" (Cowan).

9.23: Peggy and Pam will entertain you— "Them There Eyes" (Trady). "Wrap Your Troubles in Dreams"

(Barris).

9.33: Orchestra-

"Busy Bee' (Bendix). 9.38: Baritone Solo—

"The Smugglers' Song" (Mortimer).

9.43: Organ Solo-

"Broken Dreams" (Spitalny).

9.50: Orchestra. 10.0: Instrumental Music.

10.45: Slumber Music. 11.15: Close down.

SYDNEY. 267 Metres

Day sessions as usual.

During the afternoon latest scores in the cricket match, South Africa v. Australia, at Sydney, Second Test Match, at 12.5, 12.30, 12.45, 1.0, 1.15, 1.30, 2.30, 2.45, 3.0, 3.15, 3.30, 3.45, 4.0, 4.15, 4.30, 4.45 5.0, 5.15, and 6.0.

5.25: Farmer's Children's Session, con-5.25: Farmer's Children's Session, conducted by Uncle Jack and Jill. 60: Farmer's Dinner Music. 6:30: Fox-Hoyts Radio Club. 6:40: Music. 70: Request Items. 7:30: Commentary on to-day's play by Captain Ballantine. 7:45: Short commentary on the matches South Australia v. N.S.W., Victoria v. Queensland. 7:50' Music. 8:0: Plano Recital by William Murdoch. 8:30: Song Recital by Mr. Fred Williamson, well-known Adelaide Tenor, who is making an appearance through 2UW before ing an appearance through 2UW before leaving for England. 8.42: Continuation of Planc Recital by William Murdoch. 9.0: Improvisation, C. J. Arnold. 9.16: Musical Programme. 10.30: Close down

SYDNEY, 293 Metres

Day Sessions as usual.

EVENING SESSION.

6.0: Aunt Willa and Simple Simon 7.1: Dinner Music. 7.55: News from the "Sun."

8.1: Overture—"Dance of the Hours."
8.10: Broadcast of the Station 2UE Oldtime Dance, held in Mark Foy's Empress Rooms, Castlereagh Street, commencing with the Grand March.

8.20: Waltz.

8.30: Polka.

8.40: Song-Miss Ivy Phillips, with Community Chorus.

8.45: Barn Dance. 8.55: Veleta.

9.5: Boston Two-Step.

9.15: Comedy Interlude—"Ambie and Si-and their Silly Girl Friend."

9.29: Schottische

Interval

9.55: Irish Quadrilles.
10.6: Song—Miss Ivy Phillips
10.11: Band Novelty.
10.22: Barn Dance.

10.32: Destiny Waltz

10.39: Bon Ton.

10.50: Medley—Schottische, Polka, Waltz. 11.0: National Anthem Close down.

MELBOURNE, 375 Metres

Day Sessions as usual.

0: The Week's Work in the Garden—"A Lesson in Laying Out a Garden"—Mr. A Antonio, under the Auspices of the Royal Horticultural Society og Victoria.

20: The ABC Wemen's Association, conducted by Hattie Knight.

This Session will include an Interview with a Prominent Woman.

a Prominent Woman.

THE RADIO MATINEE

3 0: St. Vincent de Paul's Boys' Band—
Selection, "Rigoletto" (Verdi-Hartmann).

3.8: Harold McKelvie, Baritone—
"In Summertime on Bredon" (Graham Peel).
"Time, You Old Cipsyman" (Maurice Besley).

3.14: Margot Ramase, Comedicane—
"I want to Sing about You" (Dreyer).
"Gonna Get a Girl" (Ash).

3.20: Band—
Intermezzo, "On the Road to Zag-a-Zig" (Fink).

3.20: Band—
Intermezzo, "On the Road to Zag-a-Zig"
(Fink)
Minuet, "Queen Anne."
3.30: "East and West" in Popular Duets.
3.30: Comedy Sketch—
"Tea and Shrimps," by Gearge Vincent.
Characters:—
The Seaside Young Man. D'Arcy Kelway
The Seaside Flapper... Rita Hilton
Scene:—
A Balcony overlooking the Sea.
3.50: Band—
Waltz, "Enchantress" (Bennett).
March, "The Association" (Anderson).
40: Harold McKelvie, Baritone—
"Down Here" (May Brahe).
Selected.
46: Band—
Overture, "Royal Windsor" (Greenwood).
4.14: Margot Ramage Comedienne—
Latest Popular Numbers.
4.20: Band—
Selection, "Roberto le Diavolo" (Meyerbeer).
4.30: Close down.
During the afternoon progress scores in the Second Test Match, South Africs v.

EVENING SESSION

35 Women in Sport—A Summary of the Week's Activities—Miss M. A. Beckingsale.
25 The Financial Barometer—The Official Weekly Report from the Stock Exchange of Melbourne.
45 School Life and Sport—Mr. E. C. H. Taylor

At approximately 7 p.m. "Stumps" Scores in the Second Test Match, South Africa v Australia, played at Sydney, also in the Sheffield Shield Match, South Australia v. New South Wales, played at Adelaide, and Victoria v Queensland, played at the Melbourne Cricket Ground.

NIGHT SESSION

(Relaying to Station 2CO, Corowa until 11.0 p.m.) 8.0: An Hour of Grand Opera—

"LA TRAVIATA" (Verdi), Presented by THE A.B.C. CONCERT ORCHESTRA, with

GLADYS VERONA, Soprano. TOM DOWNIE, Tenor, and J. HOWARD KING, Bass-Baritone.

J. HOWARD KING, Bass-Baritone.

A Cameo of This Famous Opera,
Including
All the Familiar Arias and Selections,
So arranged that the Story is clearly told.
9. No Admittance Except on Business—A
Broadcast Description of the Chief Telegraph Office, Melbourne.
9.30: A.B.C. Concert Orchestra—
"Suite" Gracieuse" (German).
9.38: Francis Halls, Baritone—
"The Fuchsia Tree" (Quilter).
"Son tutta duolo" (Scarlatti).
"Sea Fever (Ireland).
9.45: C. Richard Chugg, Flute—
"Bolero" (Pessard).
9.50: A Short Recital from the Works of
C. J. Dennis by Keith Desmond—
"The Old, Old Story."
"Here"

"Here."
"Communursery Rhymes."
10.0 Francis Halls, Baritone—
"Slow Coach" (Bennett).
"Comrades of Mine" (Wm. James).
"Leezie Lindsay."
10.7 A B.C. Concert Orchestra—
Favourite Melodies from "The Student Prince"
(Rombers

Favourite Melodies from "The Student Prince" (Romberg).

19.15: (Relayed from 2FC, Sydney.) Summary of the day's play in the Second Test Match South Africa v. Australia, played at Sydney.

10.30: From the Studio (Relaying to 4QC, Brisbane)—A Resume of the day's play in the Match, Victoria v. Queensland, played at the Melbourne Cricket Ground.

10.45: Weather, etc.

10.50: Dance Music.

11.30: Close down.

MELBOURNE, 492 Metres

Day Sessions as usual.

Day Sessions as usual.

MID-DAY SESSION.

12.0: Description of Sheffield Shield Cricket Match, Victoria v. Queensland, at Melbourne Cricket Ground.

1.15: Test Cricket (Relayed from 2BL, Sydney)—A Relayed Description of Test Match, Australia v. South Africa, at Sydney Oricket Ground.

APTERNOON SESSION.

APTERNOON SESSION.

(Note.—During the afternoon, Progress Scores in Second Test Match, at Sydney, and Sheffield Shield Match, South Australia v. N.S.W., at Adelaide, will be broadcast as they come to hand).

2.0 Further description of Sheffield Shield Match, Victoria v. Queensland at Melbourne Cricket Ground.

4.15: Further description of Sheffield Shield Match, Victoria v. Queensland, at Melbourne Cricket Ground.

5.0 Test Cricket (Relayed from 2BL, Sydnoy)—A further relayed description of Test Cricket Match, Australia v. South Africa, at Sydney Cricket Ground.

6.0: Stump Scores. Weather data and Shipping Information and Close down.

EVENING SESSION.

7.32: Sporting Results. Stump Scores in Cricket Matches—Second Test Match, at Sydney. Australia v. South Africa; Sheffield Shield Match at Melbourne Cricket Ground, Victoria v. Queensland; and Sheffield Shield Match, South Australia v. NSW., at Adelaide.

NIGHT SESSION.

South Australia v. N.S.W., at Adelaide.

NIGHT SESSION.

3.0 Evolution: No. 12, "Biographical"—Dr. O.
W. Thegs.

8.20 Concert, by The Royal Victorian Institute for the Blind
Musical Director, Mr. D. L. Palmer.

Superintendent and Secretary, Mr. S. W. Hed-

Superintendent and Section (Section 2) ger.

Overture: "The Bohemian Girl" (Balfe).

—Blind Institute Orchestra.

Songs: (a) "My Prayer" (Squire).

(b) "Vale" (Russell).

—Lena Wilson, Soprano.

Pianoforte: Three Pieces from "The Pantasle Stucke".

(a) "Whims."

(b) "Why."

(c) "The End of the Song" (Schumann).

—George Findley, Mus. Bac.

Solo: "Love Lily" (Thomson).

—Fred. Sutcliffe, Tenor.
Violin Solo: "Hungarian Dance" (Brahms).

—Albert Harris.
Solo: "Sink. Red Sun" (Rel Riego).

—Ivy Williams, Contraito,
Humorous Sketches at the Piano.

—Austen Anderson
Vocal Duet: "It Was a Lover and His Lass."
Ethel Hall and Fred. Sutcliffe.

A Short Address from the embossed Braille
Type by Austen Anderson.
Soli: "The Star" (Rogers).

"Duna" (Maglil).

—Will Rule, Tenor.
Pianoforte: Novelty Numbers.
Master Laurie Wilson.
Solo: "Kashmiri Song" (Woodforde-Pinden).

—George Airton, Baritone.
Selection of Popular Songs.

—Blind Institute Orchestra.
Vocal Duet: "Say a Little Prayer For Me."

—George Airton and Will Rule.
Vocal Solo: "Time's Roses" (Barry).

—Ivy Williams, Contraito.
Vocal Quartette: (a) "Donn Ye Gry, Ma
Honey" (Noel).

(b) "Little Tommy Went a-Fishing" (Slavy).

—Blind Institute Quartette Party.

Pianologues, by—
Austen Anderson.

Pianologues, by— Austen Anderson. Vocal Solo: "I Hear a Thrush at Eve" (Cad-

Austen Anderson.
Vocal Solo: "I Hear a Thrush
man)
— Fred. Sutcliffe, Tenor.
March: "Aurora" (Lincoln).
— Blind Institute Orchestra.
10.15: News Session.
10.30: Close down.

BRISBANE, 395 Metres

15: A description of the play in the second Test match will be relayed from the Sydney Cricket Ground for 15 minutes. Progress scores in the Sheffleid Shield matches between Queensland and Victoria and South Australia and New South Wales will be announced at intervals.

AFTERNOON SESSION

Progress scores in the second Test match will be broadcast at intervals, and a description of the play will be relayed from the Sydney Cricket Ground between 5.40 p.m. and 6.0 p.m. and 6.

NIGHT SESSION

NIGHT SESSION

The Cambrian Choir (Conductor, Leonard Prancis)—Madrigal, "No, no, Nigella" (Morley): part song, "Who Is Sylvia?" (Galway). Mrs. Cuthbert (Soprano)—"Farewell To Summer" (Johnson).

Ladies' Choir—Part song, "Beauteous Morn" (German).
Male Choir—"Crossing the Plain" (Price). Messrs Evans and Parkinson—Vocal duet. "My Task" (Ashford).

The Cambrian Choir—Part song, "Let Me the Canakin Clink" (McEwen).
Hugh Campbell (Baritone)—"Frankadillo" (Molloy).
The Cambrian Choir—Part song, "Hymn To Music" (Buck).
Ann Sammon (Soprano)—"Pur Dicesti" (Lotti).

Ann Sa (Lotti)

Ann Sammon (Soprano)—"Pur Dicesti" (Lotti).

The Cambrian Choir—Part song, "Bells of St. Michael's" (Stewart).

Max Hooner (Tenor)—"A May Morning" (Denza).

Ladies' Choir—Part song, "To a Skylark" (Lloyd).

Lex Cambbell and the Choir—Plantation Song, "Ring Tailed Coon" (Scott Gatty).

Doris Berry and Mrs. Cuthbert—Vocal duet, "In Springtime" (Newton).

The Cambrian Choir—Chorus, "For Unto Us" (Handel).

9.0' Metropolitan Weather Forecast.

9.1: The Cambrian Choir—Madrigal, "What Saith My Dainty Darling?" (Morley); part song, "Meeting of the Waters" (Dunhill).

Lyla McGuire (Soprano)—"Salve Maria" (Mercadante).

Ladies' Choir—Part song, "O Lovely May" (German).

Male Choir—Part song "The Beleaguered" (Sullivan).

Thelma Tunstall (Contraito)—"Love's Coronation" (Aylward).

The Cambrian Choir—Part song, "The Sea Hath Its Pearls" (Pinsuti).

G. Harley (Baritone)—"The Witch of Bowden."

The Cambrian Choir—Part song, "The Sing-

den."
The Cambrian Choir—Part song, "The Sing-ers" (McKenzie).
Gwen McMurdy (Soprano), "Cupid" (San-

derson! (Soprano), "Cupid" (Sanderson!
The Cambrian Choir—Part song, "Miss Hannah" (Deppen).
Mabel Wright (Contraito)—"Columbius" (Chapman).
Male Choir—Part song, "The Gongs Are Beating" (Otto).
High Cambbell (Baritone)—"The Blue Dragoon" (Russell).
Lex Campbell (Baritone) and the Choir—Piantation Song, "Good-night" (Scott Gatty).
The Cambrian Choir—"Hallelutah.

Gatty).
The Cambrian Choir—"Hallelujah Chorus (Handel).

10: Final News Bulletin.

10: 15: A review of to-day's play in the second Test Match between Australia and South Africa—relayed from Sydney.

10: 30: A review of to-day's play in the Sheffleld Shleid match between Queensland and Victoria—relayed from Melbourne.

10: 45: Dance music.

11: 9: Close.

5CL

ADELAIDE. 411 Metres

Day sessions as usual

Day sensions as usual.

During the day a description of the Sheffiled Shield match, South Australia v. New
South Wales, by Len Ford from the Adelaide
Oval, and scores of the Second Test Match,
South Africa v. Australia, at Sydney, will be
broadcast immediately they come to hand

Descriptions of the Second Test will be broadcast by relay from Sydney at 12.45 p.m. and 5.10 p.m. 12.45: From Sydney Cricket Ground—Descrip-tion of play in the Second Test Match, Souin Africa v. Australia.

EVENING SESSION

10 From Sydney Cricket Ground—Description of play in the Second Test Match, South Africa v. Australia.

Africa v. Australia

7 0: Sporting Service, including Port Adelaide acceptances for Christmas Handicap day, cricket scores in the Second Test Maten, South Africa v. Australia, at Sydney, and the Shellfeld Shield match, South Australia v. New South Waies, at Adelaide Oval.

7 30: The SOL Twinkler Boys Club, conducted by The Twinkler Mr. F. J. Millst.

7 50: Let's Tain "Of Places and Things, of People and Kings."

NIGHT SESSION

Coming Events and Federal Election

7.58: Coming Events and Federal Election figures.

8.3: Christmas would not be Christmas without Pantomime. It is with pleasure that we present the ever popular Pantomime—
"CINDERELLA"

Arranged and produced by Dave Howard, the popular English Comedian.

Cast:
Cinderella—Blanch Bell.
The Ugly Sisters—Freqa Bohning and Mavis Tierney.
The Prince—Mostyn Skinner.

The Prince-Mostyn Skinner.
The Baron-George Horton.
The Page-Dave Howard.
Fairies-The Sunshine Kiddles.
Music by The A.B.C. Octet.
Synopsis

The Page—Dave Howard
Fairies—The Sunshine Kiddies
Music by The A.B.C. Octet.

Synopsis

Opening Scene—

Meeting of the Huntamen at the Forest
Ingroducing song and chorus—'Tally Ho!'
Humorous number—'Jockey Joe.'
Cinderella gathering wood in the lorest.
The Huntsmen pass by
Song—'I Wonder How it Feels to be in
Door.'

Speciality Number—Wedding of the Birds,
by the Pairies, introducing Fairy Oodmother
Cinderella Meets the Prince.
Duet—'II I Had a Girl Like You.'
Baron Seeks Cinderella—Gives Advice,
Keen Walking.

Scene 2—
Cinderella's Home.
Introducing her Ugly Sisters.
Topsy Turvy Talk.
The Baron and Buttons—The Wise Mad
and the Fool.
The Prince's Invitation to the Ball.
When Everybody Smiles—Carnival.
Departure for the Ball.
Scene 3—
Cinderella's Home.
Cinderella and Buttons.
The Fairles and Codmother.
Cinders goes to the Ball
Scene 4—
The Balloom.
Dancing.
The Baro Entertains the Guests
The Prince Meets Cinderella
12 o'clock: Cinderella's Hurried Departure.
Good-night, Sweetheart
Scene 3—
After the Ball.
Back to Cinders' Home.
The Prince Hunts for Owner of Shoe.
Cinders becomes Princess.
Wedding Bells—Grand Finale.
9.45: From 2FC, Sydney—Resume of to-day's play in the Seend Test Match, South Africa
v. Australia, at Sydney.
10.0: From SCL Studio—Resume of to-day's play in the Sheffield Shield match, New South
Wales v. South Australia, at Adelaide Oval
Irelayed to Sydney).
10.15: News Session
10.25: Modern Dance Music.
11.0: Close down.

7ZL

HOBART. 517 Metres

Day Sessions as usual.

Day Sessions as usual.
7.25: Educational Session. Professor A. B. Taylor, M.A. Talk: "The English Language. The Causes and Characteristics of Dialects."
8.0: "Bethlehem" (Maunder), rendered by Chalmers Presbyterian Church Choir, under the direction of Frank J. Carter.
The Shepherds Gifts. A little Shepherd Boy, Miss V. Harper, Sopramo; an Old Shepherd, Mr. Eric Stranger, Tenor; Angels, Shepherds, Chalmers Church Choir.
The King's Gifts. An old well in the desert. Night. Baithasor resting with his train. Balthasor, J. L. Carter, Baritone; Oaspar, T. Goward, Bass; Melchoir, A. C. Paton, Tenor; The Caravan, Chalmers Presbyterian Church Choir.
Our Gifts. Before the Inn at Bethlehem.

Our Gifts. Before the Inn at Bethlehem.
Mary, the Mother of Jesus, Miss V. Harper.
Talk, "Uanmee's" Old Curiosity Shep, by
"Uanmee."
10.0: News.
11.0: Close down.

2BL WOMEN'S SESSIO

THE NOBLE WORK OF ELIZABETH FRY.

"THE Noble Work of Elizabeth Fry" will be the title of a talk by Miss E. V. Curtin, from 2BL, during the Women's Session, commencing at 2.45 p.m. on Monday, December 21. Elizabeth Fry (1786-1845) was one of the greatest workers for prison reform that England has ever known, and she also achieved considerable reputation as a preacher. She belonged to the Society of Friends. and it was greatly owing to her efforts that teachers were organised to instruct the children of the prisoners. Not the least part of the work of Elizabeth Fry was the visiting of the convict ships. where she saw, as far as possible, to the comfort of those condemned to serve their sentence in the Colonies. Some-thing of the work undertaken by this noble woman will be realised by those who have read such works as "Little Dorrit," by Dickens, which reveal the appalling conditions of prison life in the 18th and early part of the 19th centuries.

TOURING NEW ZEALAND.

FOR the fourth of his series of talks on "Touring New Zealand," from 2BL during the Women's Session commencing

at 2.45 p.m. on Monday, December 21, Mr. Schmitt, Commissioner for New Zealand, has chosen to discuss the North Island. The chief scenic attractions of the North Island are the great Tongariro National Park, the world-famous Wanganui River, and the majestic cone of Mount Egmont, Taranaki. Tongariro National Park, in the centre of the North Island, is twenty-five miles in length. and about twenty miles in width. Of its remarkable attractions, it has been said by Mr. James Cowan in a book on the subject: "It is a region of extraordinary mingling of the Alpine and Sylvan and the Volcanic and Hydro-ther-mal. There are not many remarkable physiographic or geographical features of all New Zealand's national parks that one may not discover here. Steaming craters, sulphurous pits, a boiling lake, icecold lakes, alpine slopes for snow sports, torrents and bubbling springs, rapids and waterfalls, huge cliffs and rocky pinnacles, forests and wild fern gardens mountain meadows bright with gardens, mountain meadows bright with leagues of flowers—to enumerate varied scenes of the Tongariro Park is to make a catalogue of all New Zealand's landscapes."
The Wanganui River was said by the

old-time Maori to owe its course to the passage made by a tired mountain god as he fled from a rival, and to the Maori to-day, it is a river of mystery. The Wanganui offers splendid scenic attractions, and at many places on its banks there are found the remains of earthworks where Maori strongholds were erected in the old days. For this region was the scene of much fierce fighting between various Maori tribes. Mount Egmont, known as the "Tower of Taranaki," is 8200 feet high, and was named by Captain Cook in honor of the Earl of Egmont, First Lord of the Ad-

POSTAGE STAMPS.

STAMP collecting is one of the most popular hobbies ever invented, and all those interested in the subject should tune in to the talk by Mr. S. Williams. President of the N.S.W. Philatelic Society, from 2BL during the Women's Session, commencing at 2.45 p.m. on Wednesday, December 23. Mr. Williams has chosen "Postage Stamps Worth Fortunes" as the title of his talk.

XMAS EVE SUGGESTIONS.

MISS VARLEY has some last-minute suggestions to make in reference to making that delightful personage. Santa Claus, more real than ever this Xmas, and she will give listeners some helpful ideas on the subject from 2BI during the Women's Session commencing at 10.35 a.m. on Thursday, December

To-day's Toilet Hints

Your hair is not lovely unless bright, gleaming, colourful, ever so faintly fragrant. No matter whether vou be blonde or brunette, whether vour hair be black or grey, use stallax granules to cleanse the scalp and beautify the hair. After a stallax shampoo vou'll find hair so easy to dress. To restore grey hairs to their natural colour, truch them with tammalite. Please don't use dye—it ruins hair Remove unwanted hair from face or under arms with pheminol. Pathless, harmless, it takes away hairs instantly.

Mercolized wax makes and keeps skin clear and fresh and lovely. This matchless skin beautifier acts by harmlessly removing worn, discoloured surface skin, and taking away skin imperfections such as sallowness, roughness moth-patches, and freckles, thus enabling the fresh fine-textured skin beneath to show its leveliness. Splendid for sunburn and windchap. To keep the lips in perfect

leveliness. Splendid for sunburn and windchap. To keep the lips in perfect condition, rosy, and free from cracks, use soft prolactum. Buy from your use soft

"WETLESS" CONDENSERS

(Made in Australia)

YOU **MUST** HAVE BEST

Y using only the best component parts when building a radio set means that you are following the most economical course, as you minimise expensive breakdowns in the future.

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Working Voltage-500 V.D.C.

Fox & MacGillycuddy, Ltd. 57 YORK STREET, SYDNEY

TUESDAY

DFC

SYDNEY. 451 Metres

Early Session

Relayed to 2NC, Newcastle.)

Morning Session

(10 30 a.m. to 12 30 p.m. Relayed to 2NC be-

Cricket: Scores in the match South Australia v. N.S.W., played at Adelaide, will be given at the fall of each wicket, lunch and tea adjournments, and stumps drawn. Scores in the match Victoria v. Queensland, played at Melbourne, will be given at lunch and tea adjournments and stumps drawn.

The Lunch Hour

1 15: FROM THE SYDNEY CRICKET GROUND-Description of the Second Test Match, South Africa v. Australia. Relayed to the National Stations.

The Radio Matinee

(2.15 p.m. to 4.30 p.m. Relayed to 2NC from 2.30 p.m.)

4.6: COVENT GARDEN OPERA COM-PANY (recorded)—

Die Fledermaus Strauss Brother Dear and Sister Dear. 4.10: ARNOLD BRILHART, Saxophonist

(recorded) -

Caprice Futuristic Signorelli 13: H.M. COLDSTREAM GUARDS

BAND (recorded)—
Callirhoe—Air de Ballet ... Chaminade
4.17: MARGUERITA CARLTON, Contralto (recorded)-

20: STOCKHOLM ROYAL OPERA HOUSE ORCHESTRA (recorded)— Eugene Onegin Polonaise and Waltz-Tschaikowsky

Early Evening Session

(5.40 to 8 p.m. Relayed to 2NC, Newcastle, between 5.40 and 6.48 and 7.5 and 8 p.m.)

5.40: FROM THE SYDNEY CRICKET GROUND—Description of Second Test Match, South Africa v. Australia. Re-layed to the National Stations.

Children's Stories by the "Hello

"BRINGA" will speak of the Aboriginal

DEPARTMENT OF AGRICUL-TURE-

Mr. J. N. Whittet, Agrostologist, will speak on "Improvements of Pastures in Coastal Disticts."

7.5: Sporting Service, etc., etc.





VERA WINN, suprano, SFC night. PHIL SMITH, comedian, 2FC night

EVENING PROGRAMME

(8 to 11.30 p.m., Relayed to 2NC, Newcastle between 8 and 11 p.m.)

RADIO DANCE NIGHT

with the

A.B.C. DANCE BAND

8.0: THE A.B.C. DANCE BAND-

Foxtrot Blues Quickstep

LESLIE REID, Baritone-Four Jolly Sailormen Hood

Foxtrot

Quickstep

PHIL SMITH, Comedian-My Best Girl Donaldson

Sieinel

Waltz Waltz

Foxtrot

VERA WINN, Soprano-Youth and Spring

Quickstep Foxtrot

LESLIE REID, Baritone-Trottin' to the Fair" Stanford Rose in the Bud Forster

Foxtrot Blues

Quickstep

PHIL SMITH, Comedian-Humpty and Dumpty Chevalier

Waltz Waltz

Foxtrot

VERA WINN, Soprano-Vale Russell Advice Carew

Blues Foxtrot

Quickstep

LESLIE REID, Baritone-At Grendon Fair Marie Eves That Used to Gaze in Mine Lohr Marie

Blues Quickstep

Foxtrot

PHIL SMITH, Comedian-I'm Telling the Birds, Telling the Trees, How I Love You

Friend and Brown

Waltz Waltz

Foxtrot

VERA WINN, Soprano-Angus MacDonald Roeckel

Foxtrot Blues

Quickstep

THE A.B.C. SPORTING EDITOR will give a talk on the day's play in the Second Test Match, South Africa v. Aus-

tralia.

0.30: RELAYED FROM 5CL, ADE-LAIDE—A talk on the day's play in the match South Australia v. N.S.W., played at Adelaide.

10.45: Weather Forecast. 10.47: DANCE MUSIC.

11.30: CLOSE.

SYDNEY, 351 Metres

Opening Session

10.35: THE A.B.C. WOMEN'S ASSOCIA-TION

"Making the Most of Yourself."
"What is Your Color?"
"Flying for Women."

Midday Session

(12 noon to 2.30 p.m. Relayed to 2NC New-castle between 19 and 1.30.)

12.0: FROM THE SYDNEY CRICKET GROUND-A Description of the Second Test Match, South Africa v. Australia.

NOTE .- At approx. 12.10, metropolitan forecast and weather synopsis.

Between 1.15 and 1.30 a description of the play will be relayed to National

Scores at the fall of each wicket, at drawn in the match Victoria v. Queensland, played at Melbourne.

Afternoon Entertainment

12.30 to 6 p.m.)

2.30: Recording.

3.0: DANCE MUSIC FROM FARMER'S. 3.8: LILIAN DAVIES, Soprano (r.)-

Reigen ... 3.14: DANCE MUSIC FROM FARMER'S. 3.21: JOHN McCORMACK, Tenor (r.)-

(a) At Dawning Cadman (b) I Hear a Thrush at Eve .. Cadman 3.27: DANCE MUSIC FROM FARMER'S.

3.34: GILLIE POTTER, Comedian (r.)-Mr. Potter Waxes Historical .. Potter 3.40: DANCE MUSIC FROM FARMER'S, 3.48: BROWNING MUMMERY, Tenor

(recorded) -The Love Lily Thompson
3.51: ALFREDO RODE, Violinist (r.) 4.2: PERCY HEMING, Baritone (r.)-

GROUND-A Description of the Second Test Match, South Africa v. Australia.

> The Dinner Hour 6.15 to 8 p.m





ELEANOR STANION and EDITH MARTIN, will be heard together night.

TUESDAY, . DECEMBER 22, (Continued)

2BL TO-NIGHT AT 9.0

The A.B.C. Players in

A Message From Mars

A Fantastic Comedy in Three Acts. By RICHARD GANTHONY.

CHARACTERS:

HORACE PARKER, AUNT MARTHA (Miss Parker), MINNIE TEMPLAR (Adopted Sister of 11 and 12 ARTHUR DICEY. A TRAMP MESSENGER FROM MARS. MRS. CLARENCE. SIR EDWARD VIVIAN (An Astronomer) DR. CHAPMAN. A WOMAN OUTCAST. A POLICEMAN. A WOUNDED MAN.

SCENE: London. Time: Present.

ACT I.: A Room in Horace Parker's House-9 p.m. ACT II.: Outside Mrs. Clarence's House, ACT III.: Same as Act I. The same evening.

EVENING PROGRAMME 2GB

(8 to 10.30 p.m.)

TO-NIGHT AT 8.0 ★

FROM THE PRESBYTERIAN ASSEM-BLY HALL, SCOTS CHURCH-

An Hour of Christmas Music

Arranged by

LIVINGSTONE C. MOTE, M.A.

Organ-LIVINGSTONE C. MOTE-Fantasia on Two Carols . . . West West THE SCOTS CHURCH CHOIR-

Chorus: And the Glory of the Lord, Handel

CLIFFORD LATHLEAN, Basso— Thus Saith the Lord Handel

THE SCOTS CHURCH CHOIR-Two Carols-

In Dulci Jubilo.

EDITH MARTIN, Soprano, and ELEA-NOR STANTON, Contralto— Duet, Cradle Song Bairstow LIVINGSTONE C. MOTE. M.A., Or-

ganist-

In Dulci Jubilo Bach ANTHEM—SCOTS CHURCH CHOIR—

Hail Gladdening Light Martin ELEANOR STANTON, Contralto— Slumber Song from "Christmas Ora-torio" torio

THE SCOTS CHURCH CHOIR-Two Carols-

Ring Christmas Bells Ring Out Wild Bells Bridge BairstowTHE SCOTS CHURCH CHOIR-

(See panel 10.25: Late News from the "Sun" and

"World."

10.28: Late Weather Forecast.

SYDNEY.

Day Sessions as usual

8.0: 2GB Instrumental Quartet (leader, Horace Keats)-"Selection of Melodies" (Sullivan).

8.10; Soprano Solo-

"Always in All Ways" (Weatherley). 8.15: Storyette of Industry.

8.16: Dan Scully, Violinist— "Valse Bluette" (Drigo).

8.20: 2GB Quartet-"Preghiera" (Luigi Cecri).
"Valzer del sospiri" (Luigi Cecri).

8.28: Baritone Solo-"Songs of Songs" (Moya), "Ah, Sweet Mystery of Life" (Herbert).

8.38: Horace Keats, Pianist-"Minuet" (Elgar).
"Valse Triste" (Sibelius).

8.46: Novelty Orchestra.

8.51: Cedric Ashton, 'Cellist-"Aria" (Porpora).

9.0: Weather Report.

9.3: Contralto Solo-"Five Little Piccaninnies" (Anthony).

9.8: 2GB Quartet-"Selection of Schubert Songs."

9.15: Flute Solo.

9.20: Tenor Solo-"Passing By" (Purcell).

9.25: Organ Solo-"Hawaiian Sandman."

9.30: 2GB Quartet-"Nocturne in E Flat Major" (Chopin-

"Slumber Song" (Squire).

9.37: Baritone Solo-"Lolita" (Peccia). "Santa Lucia"

9.47: Orchestra-"Desert Song" (Romberg)

9.50: Band Selection.

10.10: Instrumental Music. 10.45: Slumber Music.

11.15: Close down.

SYDNEY. 267 Metres

Day sessions as usual. During the afternoon latest scores in the cricket match, South Africa v. Australia, at Sydney, Second Test Match, at 12.5, 12.30, 12.45, 1.0, 1.15, 1.30, 2.30, 2.45, 3.0, 3.15, 3.30, 3.45, 4.0, 4.15, 4.30, 4.45, 5.0, 5.15, and 6.0.

5.15: Farmer's Children's Session, conducted by Uncle Jack and Jill. 6.0:
Farmer's Dinner Music. 6.30: FoxHoyts Radio Club. 6.40: Music. 7.9:
Request Items. 7.30: Commentary on
to-day's Cricket, by Capt. Ballantine.
7.45: Bridge Talk by Mr. R. F. Foster.

8.0: Paling's Sponsored Hour: Orch., Finlandia (Sibelius). 3.3: The First Kiss (Sibelius). 8.12: Orch., Value Triste (Sibelius). 8.16: Orch., Symphony No. 2 (Sibelius). 8.30: Orch., Karelia (Sibelius). 8.35: Song, The Two Grenadiers (Schumann). 8.39: Song, Tomorrow (Strauss). 8.42: Plane Party (Strauss). 8.42: Plane Party (Sibelius). 8.35: Song, The Two Gren-adiers (Schumann). 8.39: Song, To-morrow (Strauss). 8.43: Plano, Para-phrase, Rigoletto (Verdi-Liszt). 8.51: Violin, Canzonetta (Tchaikowsky). 8.55: Song, Inflammatus (Rossini). 9.0: Talk on Foreign Affairs by Mr. J. M. Pren-tice. 9.10: Music. 9.15: Shell Interlude by Saxon. 9.45: Music. 10.30: Close down.

SYDNEY, 293 Metres

Day Sessions as usual. 6.0: Auntie May and Simple Simon. 7.10:

Resume of To-morrow's Races, Mr.
Tom Ellis. 7.30: Sporting Talk, Mr.
Oscar Lind. 7.40: Billiards Chat.
8.1: Overture—"Maritana," 8.10: Selected Studio Programme. 9.1: Birthday
Calls and Requests. 10.1: Light Opera
Selections—"Florodora," 10.10: Music,
10.15: Close down 10.15: Close down.

SYDNEY, 280 Metres

Day Sessions as usual.

6.45: Dinner Entertainment.

7.30: Racing Revelations, Mr. Rufe Nay-

7.45: Musical Interlude.

8.0: F. J. PALMER and SON'S, PARK STREET,

COMMUNITY CONCERT, FROM
THE AUBURN TOWN HALL,

UNDER THE DIRECTION OF UNCLE BERT, ASSISTED BY SID HAYNES

AND OTHER PROMINENT ARTISTS.

10.30: Closing announcements.

MELBOURNE. 375 Metres

Day Sessions as usual.

5.45: The Children's Corner.
6.0: "Bobby Bluegum," "Auntle Edle,"
"Orace," and "Ector," that famous quartette from 6BOE, present—
A Cameo Concert.
(a) "Ohl Mum Where's My Chewing Oum."
(b) "Tom Thumb and Tiny Teena."
(c) "Tom Thumb and Tiny Teena."
(d) "So the Blue Birds and the Blackbirds Got Together."
(e) "In My Old Feather Bed."
EVENING SESSION.

6.35: At Home and Abroad, by—
"The Watchman."

7.25: For the Man on the Land—
"Fruit Crop Prospects and Export Season,"
Mr. J. M. Ward, under the auspices of the Department of Agriculture.

7.45: Propeller Talk—
"Aero Club Notes and News"—
Captain Eric Roberts, under the auspices of the Aero Club of Victoria.

8.0: At approximately 7 p.m. "Stumps" Scores in the Second Test Match, South Africa v. Australia, played at Sydney, also in the Scheffield Shield Match, South Australia v. New South Wales, played at Adelaide, and Victoria v. Queensland, played at the Melbourne Cricket Ground.

WGMEN'S SESSION.

WCMEN'S SESSION.

20: About It and About—
"Last-minute Christmas Presents"—
Isobel Ann Shead,
During the afternoon Eric Welch will d
scribe the Moonee Valley Race Meeting.

Trial Hurdle Race, 2 miles. Orphanage Handicap, 6 furlongs. Welter Plate, 6 furlongs. St. Vincent de Paul Handicap, 3% fur-

Orphanage Handicap, 6 furlongs.
Welter Plate, 6 furlongs.
St. Vincent de Paul Handicap, 9½ furlongs.
St. Augustine Handicap, 7 furlongs 60 yards.
From 3.0 to 4.30 nm. the Studio Programme will be provided by—
A.B.C. Quintette—
"In a Kentish Garden" (Rawlinson).
"Valse Moderne" (Ly).
Selection—'La Boheme" (Leoncavallo).
Suite in Old English Style from "Henry VIH" (John Poulds).
"Plymouth Hoe" (Ansell).
Ernest Kopke, Tener—
"I Look Into Your Garden" (Wood).
Two Songs by Coningsby Clarke—
"The Hawk."
"Remember the Rose" (Bimons).
Two Songs by Mona Raymond—
"Sometimes I Think."
"Jes" a-Smokin".
Compton Coutts, Comedian—
"Nonsensical Nothings."
Clare Davis, Mezzo-soprano—
"Bridal Dawn" (Easthope Martin).
"Gipsy Spring" (H. Ollver).
Three Scottiah Songs—
"Turn Ye To Me" (Old Highland Melody).
"My Mary, Sweet and Brown" (Kliner).
Selected.
10: Close down.
During the afternoon progress scores in the Second Test Match, South Africa v. Australia, played at Sydney; also the Shrifield Shield Match, South Australia, v. New South Wales, played at Adelaide, will be broadcast as they come to hand.

NIGHT SESSION.

DANCE MUSIC

DANCE MUSIC

PAUL JEACLE AND HIS RADIO DANCE BAND.

Songs by JEAN LEWIS, Contralto; GEORGE NICHOLLS, Baritone; Comedy In-terludes by JOHN STUART.

terludes by JOHN STUART.

O: Paul Jeacle and His Radio Dance Band—
Fox-trot.

George Nicholls, Baritone—
"Carnival" (Molloy).

Dance Band—Fox-trot.
John Stuart, Comedian—
"She Can't Make Up Her Mind" (Raymond Wallace).

Dance Band—Waltz.
Jean Lewis, Contraito—
"The Glory of My Garden" (Daniel Wood)

Dance Band—Pox-trot.

Bluss

Wood)
Dance Band—Pox-trot, Blues.
George Nicholls, Baritone—
"Queen of My Heart," from "Dorothy"
(Collier).
Dance Band—Pox-trot,
John Stuart, Comedian—
"And So Do All My Pals" (Harris West-

John Stuart, Comedian—
"And So Do All My Pals" (Harris Westcott).

3.0: The Mystery Room—
"A Description of the Train Control Room,
Spencer Street, during the peak period."

3.15: Dance Band—Fox-trot.

Jean Lewis, Contrailo—
"Song of Florian" (Godard).

Dance Band—Viennese Waitz.

George Nicholls, Barlione—
"You Are My Heart's Delight," from 'Land
of Smiles' (Lehar).

Dance Band—Fox-trot Blues.

John Stuart, Comedian—
"Wave To Me" (Harris Westcott).

Dance Band—Fox-trot.

10.6: Jean Lewis, Contrailo—
"Where My Rainbow Ends" (Conriche).

Dance Band—Fox-trot.

John Stuart, Comedian—
"Girls, Past and Present" (Lesile Elliott).

10.15: Test Cricket (Tranamission from 2FC,
Sydney)—Summary of the day's play it the
Second Test Match, South Africa v, Australia, played at Sydney.

10.30: Sheffield Shield Cricket (From 3£O, Relaying to 4QG)—A Resume of the day's play
in the Match, Victoria v, Queensland, played
at the Melbourne Cricket Ground.

10.45: Weather, etc.

10.55: Popular Dance Numbers.

11.30: Close down.

MELBOURNE, 492 Metres

Day Sessions as usual

Day Sessions as usual.

MID-DAY SESSION.

12.0 Description of Sheffield Shield Cricket Match, Victoria v. Queensland, at Melbourne Cricket Ground.

1.15. Test Cricket (Relayed from 2BL)—A Relayed description of Test Crickee Match, Australia v. South Africa, at Sydney Cricket Ground.

AFTERNOON SESSION.

AFTERNOON SESSION.

2.0: Description of Sheffield Shield Cricket Match, Victoria v. Queensland, at Melbourne Cricket Ground.

4.15: A further description of Sheffield Shield Match, Victoria v. Queensland, at Melbourne Cricket Ground.

3.40: A further relayed description of Test Cricket Match, Australia v. South Africa, at Sydney Cricket Ground.

60: Stump Scores, Weather data and Shipping Information and Close down.

7.32: Sporting Results. Stump Scores of Cricket Matches.—Second Test Match. Australia v. South Africa, at Sydney Cricket Ground; Sheffield Shield Match, Victoria v. Queensland, at Melbourne Cricket Ground; and Sheffield Shield Match, South Australia v. New South Wales, at Adelaide.
7.45: Fifteen Minutes with Famous Song Writers: Robert Schumann—by Beryl Hahnbours.

NIGHT SESSION.

8.0: Everyday Psychology—
No. 12: "Character and Personality"—
Dr. R. D. Collman, B.Sc., B.A.
8.20: "Tilly of Bloomsbury."
Comedy in Three Acts, by Ian Hay,
(Adapted from the Author's Novel, "HappyGo-Lucky.")
Characters (in the order in which they are

Golucky.")
Characters (in the order in which they are heard?
Abel Mainwaring, M.P.
Milroy (Butler to the Mainwarings).
Sylvis (Mainwaring's daughter).
Lady Marian Mainwaring.
Rev. Adrian Rylands.
Constance Damer.
Richard (Mainwaring's son).
Tiliy (Welwyn's daughter).
Percy (Welwyn's younger daughter).
Grandma Banks (Mrs. Welwyn's mother).
Mr. Metha Ram (a law student).
Mrs. Welwyn.
Lucius Welwyn.
Mr. Stillbeitle (a Sheriff's Officer).
Mr. Pumpherston (another law student).
Synopals of Scenery—
Act 1:
The Towers, Shotley Beauchamp.
Saturday afternoon, November.
Act II:
The Welwyn's Drawing-room, Bloomsbury.
Monday afternoon.
Act III:
Same as Act II. Tuesday morning.
The action of the play takes place at the present time.
Incidental Music by
The ABC. Concert Orchestra; Conductor.
Percy Code.
Produced by Frank D. Clewlow.
10.15: News Session.
10.30: Close down.

BRISBANE,

BRISBANE, 395 Metres

Day Sessions as usual.

15: A description of the play in the second Test Match will be relayed from the Sydney Cricket Ground for 15 minutes.

Progress scores in the Shemield Shield matches between Queensland and Victoria and South Australia and New South Wales will be announced at intervals.

Progress scores in the second Test Match will be broadcast at intervals and a description of the play will be relayed from the Sydney Cricket Ground between 5.40 p.m. and 5.0 p.m.

Sydney Cricket Ground between 5.40 p.m. and 6.0 p.m. 7.30: A Special Talk to Farmers, arranged by Department of Agriculture and Stock—The Origin of the Angora Rabbit, Its Wool as an Article of Commerce," by Mr. J. W. Munroe. 7.40: Sporting Section.

NIGHT SESSION

NIGHT SESSION

8.0: Relayed from 4RK, Rockhampton.

9.45: A short reproduced musical programme from the Studio.

10.0: Final News Bulletin.

10.15: A review of to-day's play in the second Test Match between Australia and South Africa—relayed from Sydney.

10.30: A review of to-day's play in the Sheffleid Shield match between Queensland and Victoria—relayed from Melbourne.

10.45: Dance music.

ADELAIDE, 411 Metres

Day Sessions as usual.

During the day descriptions of the Sheffield Shield match, South Australia v. N.S.W., by

Len Ford, from the Adelaide Oval, and scores of the Second Test Match, South Africa v. Australia, at Sydney, will be broadcast immediately they came to hand. Descriptions of the Second Test Match will be broadcast by relay from Sydney at 12.45 pm. and 5.10 p.m. the Sydney Cricket Ground—Description of the play in the Second Test Match, South Africa v. Australia.

AFTERNOON SESSION

4.29: Cricket scores

EVENING SESSION

EVENING SESSION

5.10 From the Sydney Cricket Ground—Description of the play in the Second Test Match—South Africa v. Australia.

7.0: Sporting Service, including cricket scores in the Second Test Match, South Africa v. Australia, at Sydney, and the Sheffield Shield Match at Adelaide Oval. Stock Exchange information supplied by the Stock Exchange of Adelaide; market reports.

7.25: Musical reproductions.

7.35: Musical reproductions.

7.36: Musical Reproductions (continued).

NIGHT SESSION.

NIGHT SESSION

8.0: From the Little Theatre "SCROOGE

Adapted from Charles Dickens' "Christmas Carol" by Gertrude Anderson, and produced by The Radio Players, under the direction of James Anderson.

Characters:
The Ghost of Xmas Past.
The Ghost of Xmas Present.
The Ghost of Xmas Future
The Ghost of Jacob Marley. The Ghost of Jacob Marley.
Ebenezer Scrooze.
Bob Cratchilt this Clerk!
Fred Wayland (his Nephew)
Mr. Middlemark.
Mr. Worthington.
Scrooze's Sweetheart.
The Cratchilt Children
Martha.
Belinda.
Peter
Tiny Tim.
The Boy Scrooze.
Fanny (his sister!).
Scene: "Office of Ebenezer Scrooze."
Time: "A Poggy, Frosty Christmas Eve."
Carols by Ye Olde Waits.
0: Intermission for the man on the le

9.0: Intermission for the man on the land. Wheat, market, and weather reports. 9.5: A Violin Recital, by Katle Yourger.

9.11: Ye Olde Waits Quartette-Seasonal Selec-9.15: A Shere Musical Comedy, "The Couple Next Door," produced by The Radio Players.

9.25: Ye Olde Waits Quartette-Novelty number.

30: A Pianologue by Walter Hurst and James Anderson.

9.38: A Christmas Play, "While Shepherds Watched," produced by The Radio Players.

9.45: Frow 2FC, Sydney—Resume of to-day's play in the Second Test Match, South Africa v. Australia, at Sydney.

10.0: From 5CL, Adelaide—Resume of to-day's play in the Sheffield Shield Match, South Australia v. New South Wales, at Adelaide Oval (relayed to Sydney).

10.15: News Session.
10.25: Special Yuletide Dance Music.

11.9: Glose down.

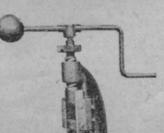
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HOBART. 517 Metres

Day sessions as usual.
7.25: Educational Session, C. Malthus, M.A. Talk: "French Language: Maurois L Conversion de Bromnit."
7.45: W. E. Fuller, Talk: "Literary Lapses and Library Lis's."
8.0: Light Orchestral Concert, A.B.C. Orches-

tra.
7. Tourbillon (Geroult).
10.0: News.
11.0 Close down.

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Leichhardt and District.

THE Leichhardt and District Radio

Society held its 110th monthly business meeting on Tuesday, December 1. with Mr. Pinnell (VK2ZR) in the chair. The minutes of the previous month's activities were read and accepted. An application for membership was received from Mr. Callinan, who was duly elected to the society. It was decided that the society hold a competition for homeconstructed radio apparatus. Full details are being arranged by the techni-cal committee, and the competition will be held early in the new year. Our schedule of slow morse code transmissions on 80 metres has been re-arranged sions on 80 metres has been re-arranged and is now as follows:—Monday, by VV. 2VW; Wednesday, by VK2BX; Thursday, by VK2WD; Friday, by VK2DW; Sunday, by VK2MW.

The transmissions will take place from 220 metrics of the realism.

7.30 p.m. till 8 p.m., and the stations concerned would greatly appreciate reports from any listeners hearing them

We wish to congratulate the Associa-

tion of Amateur Radio Clubs on the suc-cess of its first short-wave test, which was held on 80 metres during November The members of this society consider the test "very fine biz," and hope that the association will keep up the good work in future.

The society's meetings are held every Tuesday evening at the club rooms, 35 Albert Street, Leichhardt. All inquiries should be addressed to the Hon. Secretary, Mr. D. Maclaren, 56 Hawthorne

Parade, Haberfield.

Harringtons.

THE secretary of the club is pleased to announce that six out of the eight members who sat for the recent A.O.P.C. members who sat for the recent A.O.P.C. examination have passed, and they are now awaiting their call-signs. The executive of the club take this opportunity of thanking Mr. John Olle, VK2OZ, who was in charge of this section and coached the boys for the examination.

Interest is increasing every day in the club's "C Grade" examination, which is to take place on December 18.

The club is pleased to announce that

The club is pleased to announce that the hon, executive secretary has been chosen to go to New Zealand and broadcast the Wizard Smith attempt at the motor speed record. Mr. Jack Duffy will take the portable transmitter of VK2HR with him and transmit direct from the beach in New Zealand, to be picked up at the headquarters station at Waverley, Sydney, and then by landline to Station 2UW to be rebroadcast.

The portable transmitter will be operating on a wave of 26 metres, and is at present being tested out on both 41 and 26 metres, prior to leaving for New Zealand on December 24. All reports on the transmission would be greatly ap-preciated by Mr. Duffy. Kindly address all reports to the club headquarters or to the station at Stanley Street, Waver-

During the absence of Mr. Duffy, Mr. J. Hutchison, VK2JH, will be in charge of the club, and will also be in constant touch with the portable transmitter. He will be operating the headquarters sta-tion, VK2HR, at Waverley. All official transmitters and receiving stations of the club are asked to stand by for the

(Continued on page 42)

WEDNESDAY..DEC.

SYDNEY. 451 Metres

Early Session

7.0 to 8.15 a.m.
(Relayed to 2NC, Newcastle.)

Morning Session
10.30 to 12.30 p.m.

(Relayed to 2NC, between 10.40 a.m. and 12.0 noon.)

Note:-Race results from Rosebery will be transmitted as received. Between 12.30 and 1.0 p.m. the results will go through 2BL.

The Lunch Hour

FROM THE SYDNEY CRICKET GROUND—Description of the Second Test Match, South Africa v. Australia, relayed to the National Stations.

The Radio Matinee

2.15 to 4.30 p.m. (Relayed to 2NC from 2.30 p.m.

2-15: FROM THE SYDNEY CRICKET GROUND—Description of the Second Test Match, South Africa v. Australia. D: B.B.C. WIRELESS MILITARY

BAND (recorded)-

The Grey House Messager 4.11: RUDY STARITA, Xylophone Solo

(recorded)-Dance of the Raindrops

4.14: A HUMOROUS INTERLUDE BY CLARKSON ROSE AND OLIVE FOX (recorded) -

P'liciman, P'liciman, Hold My Hand Kennedy

Put Your Worries Through Mangle Wallace

4.20: THE BIG FOUR, Vocalists (r.)—
Reaching for the Moon . . . Berlin Reaching for the Moon 4.24: ARTHUR RUBENSTEIN, Pianist

La Cathedrale Engloutie . Debussy

Early Evening Session

(Relayed to 2NC, Newcastle, between 8.40 and 6.45 and 7.5 and 8.0 p.m.)

5.40: FROM THE SYDNEY CRICKET GROUND—Description of the play in the Second Test Match, South Africa v. Australia, relayed to the National Sta-

6.0: Children's Stories, by the "Hello Man" and Aunt Eily. Uncle Ted and "Sandy" will entertain.

6.45: THE HISTORY OF THE SYDNEY HARBOR BRIDGE

Main Bridge-Erection of Steelwork, by Dr. J. C. C. Bradfield.

7.5: News, Sporting Service, etc.



Women's Hour, 2BL to-day,



LES HARRIS. saxophonist, 2BL to-night.



EVENING PROGRAMME

8.0 to 11.30 p.m.

(Relayed to 2NC, Newcastle, between 8.9 and 11.0 p.m.)

* TO-NIGHT AT 8.0 * CONCERT

arranged by

DEE WHY AND DISTRICT CHORAL SOCIETY

(Under the direction of HOWARD CARR.)

10.15: A talk on the day's play in Second Test Match by the A.B.C. Sporting Edi-tor, relayed through the National Stations.

10.30; Late Official Weather Forecast. 10.32: MEDITATION MUSIC.

11.30: CLOSE.

SYDNEY. 351 Metres

Opening Session

8.15 to 11.0 a.m.

10.35; THE A.B.C. WOMEN'S ASSOCI-

Understanding Your Child. Knowing Australia, by Miss Lyall Hilliard.

Midday Session

12 noon to 2.30 p.m. (Relayed to 2NC, Newcastle, between 12 noon and 1.30 p.m.)

12.0: FROM THE SYDNEY CRICKET GROUND-

A Description of the Second Test Match, South Africa v. Australia. Note:-At approx. 12-10 the Metropoli-

tan forecast and weather synopsis. Between 12.30 and 1.0 p.m. race results from Rosebery will be transmitted as

Afternoon Entertainment

2.30 to 6.0 p.m.

2-30: WILLIAM MURDOCH, Pianist (r.) La Campanella Liszt

2.45: THE WOMEN'S HOUR, conducted the A.B.C. WOMEN'S ASSOCIA-TION.

Crochet Creations, by Mrs. Eugenia Bailey.

Musical Interlude (recorded). Memories of Christmas in Other Lands, by Mrs. Glanville.

Musical Items (recorded).

Postage Stamps Worth Fortunes, by Mr.
S. Williams (President, N.S.W. Fhilatelic Society).

Moments Musical (recorded). Concrete in the Household, by Mr. T. A. Robinson.

3.45: SELECTIONS

3.53: EMMY BETTENDORF, Soprano (recorded) -

The Love Waltz Liebmann ELSCHUCO INSTRUMENTAL TRIO (recorded)-.. .. Saint-Saens Andante ...

4.0: BOOK REVIEWS.

4.15: FROM THE SYDNEY CRICKET GROUND-

Description of the Second Test Match. South Africa v. Australia.

The Dinner Hour 6.15 to 8.0 p.m.

EVENING PROGRAMME

8.0 to 10.30 p.m.

8.0; THE SAVOYANS in Symphonies-Selections from On With the Show,

Spanish Tango-In a Little Cafe, Newbane

8.7: THE ELLICE QUARTET-

In Absence Dudley Buck

A. B. ("BANJO") PATERSON, in REMINISCENT MOOD.

8.29: THE SAVOYANS-

Selection from the Overture, Zampa, Herold

Trumpet Solo, with Orchestra-Moonlit Shadows Knight-Logan 8.36: DOROTHY NALL, Monologues-

8.43: LES. HARRIS, Saxophonist-

Supplication Guarante 6: DOROTHY CHARLSTON, Con-Guarante tralto-

Two Mexican Songs, by Woodfordes Finden-Flower of My Heart,

Invitation to the Dance



contralto, 200 CHARLSTON, tralte, 2BL



EDITH COWLEY entertaining f 2BL to-night.

WEDNESDAY, DEC. . . 23 (Continued)

8.53: ERIC MASTERS and EDITH COW-LEY in a Sketch entitled—
According to the Point of View, introducing After All Hylton 9.3: PETER PIPER AT THE PIANO-Shades of Blue Claypool 9.6: THE ELLICE QUARTET-

Absent Metcalf, arr. Lynes I Bring a Love Song, Hammerstein, arr. Chappell

Bowl of Roses,

Coningsby Clarke, arr. Lucas 9.13: DOROTHY NALL, Monologues— In My Young Days Hastings Viewing the Baby . . . Weston Lee

9.20: THE SAVOYANS in a Symphonic Arrangement of Beethoven's Sonata,

Arr. Katzman
Arabian Romance Pollow
9.28: SIDELIGHTS ON OLD SYDNEY.

9.43: DOROTHY CHARLESTON, Contralto-

That's All May Brahe
Only a Rose Friml

9.50: DON ROYAL, Xylophone Solo—
Lonesome Little Doll Cowan

9.54: EDITH COWLEY and ERIC MAS-

TERS, in a Sketch entitled—
Tender Hearted, featuring
Song of the Highway Valerie May
Tender Hearted Henty

10.4: THE SAVOYANS IN DANCE MUSIC.

10.25: Late News.

10.28; Late Weather Forecast.

10,30: CLOSE.

SYDNEY, 316 Metres

Day sessions as usual.

12.0: F. J. PALMER'S
COMMUNITY SINGING.
FROM SAVOY THEATRE.
Conducted by UNCLE GEORGE.

EVENING SESSION

Orchestra.

8.10: Oscar Lansen, Baritone—
"Bachelor Ships" (Richards).
"My Love's an Arbutus" (Stanford).

8.15: Storyette of Industry.

8.17: Violin solo.

8.24: Piano solo by Clive Henry.

8.28: The Melody Duo—
"Hawaiian Blue Bird" (Porter).
"Aloha oe."

8.38: Voilin solo.

8.38: Vollin solo.
8.42: Piano solo by Clive Henry.
8.46: Oscar Lansen, Baritone—
"The Garden of Sleep" (de Lara).
"Love's Journey" (Sanderson).
8.54: 'Cello solo.
8.58: The Melody Duo—
"Coral Sande"

"Coral Sands." 9.0: Weather Report.

9.3: Melody Duo—
"River of Golden Dreams" (Shilkret)

9.10: Piano solo by Clive Henry. Violin solo. 9.25: 'Cello solo. Contralto solo. 9.40: Instrumental quartet. 9.50: Band selection. 10.0: Instrumental music. 10.45: Siumber music. 11.15: Close down.

SYDNEY, 267 Metres

Day sessions as usual. During the afternoon latest scores in the Second Test Match, South Africa v. Australia, at Sydney, at 12.5, 12.30, 12.45, 1.0, 1.15, 1.30, 2.30, 2.45, 3.0, 3.15, 3.30, 3.45, 4.0, 4.15, 4.30, 4.45, 5.0, 5.15, and 6.0 5.15: Farmer's Children's Session, conducted by Uncle Jack and Jill. 6.0: Farmer's Dinner Music. 6.30: "Farm-yard Five." 6.45: Gardening Talk by Mr. S. H. Hunt. 7.0: Music. 7.15:

"Snapshots of Sports" Session, by Mr. O. Lawson. 7.30: Commentary on today's play by Capt. Ballantine. 8.0: Recital by Fritz Kreisler. 8.30: Final appearance of Mr. Fred Williamson, the well-known Adelaide Tenor, before his departure for England. 8.42: Music. 8.45: Shuron Programme, "Your Eyes." 9.0: Talk on Foreign Affairs by Mr. J. M. Prentice. 9.10: Music. 9.15: Fox Talkletones from their Miniature Theatre. 9.45: Music. 10.30: Close down. "Snapshots of Sports" Session, by Mr.

SYDNEY. 293 Metres

Day Sessions as usual. 12.15 p.m.: Description of the races from Randwick. Mr. L. Melville. 4.30: Close down.

EVENING SESSION

6.0: Auntie May and Simple Simon.

7.5: Model Aero Club, Mr. Ivor Freshman.

8.1: Overture, "Rigoletto." 8.10: Selected Studio Programme.

8.30: Popular Dance Music.

9.1: Birthday Calls and Requests. Interspersed with popular dance items. 10.1: Selection. "Lily of Killarney." 10.15: Close down.

MELBOURNE. 375 Metres

Day Sessions as usual.

2.0: Oddments—
"Christmas in Other Countries."
Miss Moira Shackell.

2.30: The A.B.C. Women's Association, conducted by Hattie Knight.

THE RADIO MATINEE

3.9: The Radio Players—
"Serenade" (Svendeen).
"Polonaise," from "Eugene" (Tschaikowsky).
3.10: Frad. Walker, Baritope—
Two "Freebooter" Songs by William Wal-

acc.

3.16: Bessie Gaunson, Violin—
"Mazur" (Mlynarski).

3.20: Phil. McGuire, Soubrette—
"Laughing at the Pain" (Gilbert).
"She Hadn't Up Till Yesterday" (Haines).

3.26. Radio Players—
Selection, 'Tales of Hoffmann' (Offenbach).
3.36: Tom Downie, Tenor—
"Hame o' Mine" (McKenzie Murdoch).
Request Number.

Request Number.

242: C. Richard Chung, Flute—
"Oriental Serenade" (Kohler).

345: Fred. Walker, Baritone—
Two Songs by Easthope Martin.
"The Wayfarer's Night Song."
"The Crown of the Year."

341: Phy. McGuitz Souprette—

351: Phil. McGuire, Soubrette-"Reaching for the Moon" (Berlin). The Latest Hit.

The Latest Hit.

4.6: Ton Downie, Tenor—
Two Irish Ballads,
"Little Town in Auld County Down."

'The Kerry Dance."

4.16: Radio Players—
Selection, "Natoma" (Herbert).

4.30: Close down.
Progress scores in the Second Test Match,
South Africa v. Australis, played at Sydney, will be broadcast as they come to hand.

During the afternoon results of the Lance-neld Races will be broadcast as they come to hand.

5.45: The Children's Corner.

5.45. The Children's Corner.

6.0: "A Magic Christmas Eve."
Specially written for Radio by Violet Parkinson and presented by Freda Northcote. Characters in the Play.
Father Time Freda Northcote Grandpapa Dulcte Trevaskis Rosemary Audrey Stokes Nancy Elleen O'Leary Molly Norma Lambert 6.20: Birthday Greetings by "Little Miss Kookaburra"

EVENING SESSION

6.35: Prench—

Madame Soward.
7.25: University Extension Board Lectures—
"The Origin of the Santa Claus Legend"
Mr. G. S. Browne, MA.
7.45: Our Radio Service to Listeners—
Mr. H. K. Love.
At approximately 7.0 p.m. "Stumps" scores in the Second Test Match, South Africa v. Australia, played at Sydney, will be given.

NIGHT SESSION
AN ORCHESTRAL AND CHORAL PROGRAMME.
8.0: A.B.C. Concert Orchestra (Conductor, Percy Code)—
Overture, "Miralia" (Gounod).
"Aubade" (Massenet).

8.10: Barileman Male Choral Society—
"Ring Out, Wild Bells" (Percy E. Fletcher).
"Fallen Heroes" (Oyril Jenkins).
3.18: Edouard Lambert, Violin—
"On Wings of Song" (Mendelssohn).
"The Girl with the Flazen Hair" (Debussy).
"Canzonetta" (D'Ambrosio).
3.26: Bartleman Male Choral Society—
"Am Meere" (Schubert).
"Standchen" (Schubert).
3.34: AB.C. Concert Orchestra—
Ballet Music, "Rosamunde" (Schubert).
3.44. Bartleman Male Choral Society—
"Two Sea Chanties, arranged by A. Fagge
"Rio Grande."
"Shenandoah."
Part Song, "The Lee Shore" (S. Coleridge
"Rio Grande."
"Shenandoah."
Part Song, "The Lee Shore" (S. Coleridge
Taylor).
3.50: A Piano Recital by
Alexander Sveriensky—
(a) "Barcarolle" (Liadoff).
(b) "Prelude in B Minor" (Medner).
(c) "Christmas Tree Valse" (Rebikoff).
(d) "Etude Tableau, Op 33, in E Flat Minor"
(Rachmaninoff).
(e) "Fairy Tale in E Minor" (Metner).
(g) "Etude in C Minor" (Stravinsky).
3.51 My Scrap Book—
"Ring Lore."
Bernard Cronin.
3.20: A.B.C. Concert Orchestra—
Four Dances from "The Rebel Maid" (Phillips).
3.30: Rebie Saunders, Monologues—
"Don't I Wish I Were a Man" (Hilda Bertram).
"Why" (Phyllis Fergus).
3.37: A.B.C. Concert Orchestra—
Valse, "Artist's Life" (Strauss).
3.51: "Master Four Quartette"—
"Medley of Popular Songs."
"Foolish Facts,"
3.51: A.B.C. Concert Orchestra—
Melodies from "Rio Rita" (Tierney).
10.0: Rebie Saunders, Monologues—
"Soilloquy of a Safety Pin" (Eva Pioyer).
"On a String" (Mildred Carey Wallace).
10.7: A.B.C. Concert Orchestra—
Melodies from "Rio Rita" (Tierney).
10.0: Rebie Saunders, Monologues—
"Soilloquy of a Safety Pin" (Eva Pioyer).
"On a String" (Mildred Carey Wallace).
10.7: A.B.C. Concert Orchestra—
Melodies from "Rio Rita" (Tierney).
10.0: Rebie Saunders, Monologues—
"Soilloquy of a Safety Pin" (Eva Pioyer).
"On a String" (Mildred Carey Wallace).
10.7: A.B.C. Concert Orchestra—
Melodies from "Rio Rita" (Tierney).
10.0: Rebie Saunders, Monologues—
"Soilloquy of a Safety Pin" (Eva Pioyer).
"On a String" (Mildred Carey Wallace).
10.7: A.B.C. Concert Orchestra—
1

3AR

MELBOURNE, 492 Metres

Day Sessions as usual.

MID-DAY SESSION.

MID-DAY SESSION.

12.18: The March of the Mongols—
"The Story of the Terrible Genghis Khan,"
Part 4—
Captain Donald MacLean
1.15: A Relayed Description of Second Test
Motch Australia v. South Africa, at Sydney
Cricket Ground.

AFTERNOON SESSION.

AFTERNOON SESSION.

2.1: Concerto in D Major (Tschaikowsky).
—Fritz Kreisler and State Opera House Orchestra, Berlin.

2.49: Rosetta Pampanini.
Conchetz Veladquez and Allessandro Granda.

2.57: J H. Squire Chamber Orchestra.
Note: Progress Scores in Test Match, Australia v. South Africa, will be broadcast as they come to hand.

3.0: Education in U.S.A.—
"Organisation of Education"—
Mr. G. A. Osborne, M.A.

5.40: A further relayed description of Second Test Match, Australia v. South Africa, at Sydney Cricket Ground.

NIGHT SESSION.

NIGHT SESSION.

NIGHT SESSION.

8.0: Great Shrines of the World:
No. 9, "Westminster Abbey"—
Mr. J. S. Gawler.
Dance Music and Variety.

8.20: Regal Trio—Will Cotterill. Tenor.
Pauline Just. Whistler and Contraito.
Les. Barry, Baritone.
"Land of Dreamy Nights" (Watkins).
"Blue Ridge Mountain Home" (Robinson).
"Old Man Jazz"—Whistling Solo.

8.30: Art. Chapman and his Rex Orchester.

8.30: Art. Chapman and his Rex Orchestra-Latest Dance Numbers.
8.37: Edward Beachcroft, Tenor—
"My Prayer" (Squire).
"The Trumpeter" (Dix).

44: Art, Chapman and his Rex Orchestra-Latest Dance Numbers. Solo: Selected.

8,48: Ken Mountain—
"A Mountain of Mirth."

8.56: Art. Chapman and his Rex Orchestra-Latest Dance Numbers.

Latest Dance Numbers.

9.3: Frances Nicholl, Soprano—
"That's Ail" (Brahe).
"Happy Song" (Del Riego).

9.10: Neapolitan Serenaders—
A Trio of Novelty Instrumentalists—
"Pot Pourri" (arr. Neapolitan Serenaders).
Valse: "Eremonto" (Sartori).
"Pale Moon" (Logan).

9.17: Edward Beachcroft, Tenor—
"Friend o' Mine" (Sanderson).

9.24: Art. Chapman and his Rex Orchestra—
Latest Dance Numbers.

9.31: Regal Trio—
"Connfeid" (Jones).
"On the Beach With You" (Greer).
"Twilight Song" (Wright).

9.87: Art Chapman and his Rex Orchestra—Latest Dance Numbers.
9.44: Frances Nicholl, Soprano—
"Dawn Skies" (Drummond).
"Dailodil Days" (Dawson).
9.51: Neapplitan Serenaders—
"Barcarolle" (Offenbach).
"Red Butterfig" (Dinart).
10.0: Ken. Mountain—
"A Mountain of Mirth," will supply
A Further Comedy Interlude.
10.8: Art. Chapman and his Rex Orchestra—Latest Dance Numbers.
10.15: News Session.
10.30: Close down.

BRISBANE. 395 Metres

Day Sessions as usual.

Should the second Test Match between Australia and South Africa not have concluded, 4QG and 4RK will both remain open to broadcast a description of the play from the Sydney Cricket Ground between 5.40 p.m.

If the game has finished, both stations will close down as usual at 4.30 p.m.

7.30: French, "How to Say It. How to Put It." No 1, by Dr. E. A. D'Edgerley.

7.40: Sporting Section.

NIGHT SESSION

8: Silkstone Apollo Club—"O Come, All Ye Paithful" (Onkley).

J. Thompson (Baritone)—"Star of Bethlehem" (Adams).

The Aloha Trio—Xmas Tunes.

Silkstone Apollo Club—"Christians Awake" (Wainwright).

D. Owens (Elocutionist)—"Home for the Holidays" (Anon.).

Silkstone Apollo Club—"Santa Clause is Coming in the Morning" (Jenkins).

Thema Marsh (Pinniste)—"Christians Pieces" (Mendelssohn).

The ABC Sketch Company in a Comedy Eketch by "Banjo" Paterson—Cast. Jack, Bill, Carstairs, "Banjo" Paterson.

The Silkstone Apollo Club—"The Gosling" (Bridge).

Sketch by "Banjo" Paterson—Cast: Jack.
Bill. Carstairs. "Banjo" Paterson.
The Silkstone Apollo Club—"The Gosling"
(Bridge).
Metroplitan Weather Forecast.
Silkstone Apollo Club—"Once in Royal David's Cliv" (Gauntiet).
Gladys Rogers (Soprano) — "Lullaby" (Brahms).
The Aloha Trio—Medley of Airs.
T. A. Jones (Tenor)—"New Year's Eve" (Lewis).
The Silkstone Apollo Club—"Diadem" (Ellor).
Thelma March (Pianiste)—"Cradle Song" (Schubert).
D. Owens (Elocutioniste)—A Christmas Story.
J. Allsop (Baritone)—"Light of the World" (Adams).
Gladys Rogers (Soprano)—"The Gift" (Vehrend).
The Silkstone Apollo Club—"See in Yon Manger Low."
(0.0 Final News Bulletin.
A review of the day's play in the Test Match between South Africa and Australia will be relayed from Sydney.
Dance music.
1.0: Close.

ADELAIDE. 411 Metres

Dry Sessions as usual.

During the day scores of the Second Test
Match. South Africa v. Australia, at Sydney.
Immediately they come to hand. Descriptions of the Second Test Match will be
broadcast by relay from Sydney at 12.45 p.m.
12.45: From the Sydney Cricket Ground—Description of play in the Second Test Match—
South Africa v. Australia.
AFTERNOON SESSION
3.1: Lancefield Race Results.
3.2: Mrs. G. Cameron (one of the vice-presidente of the Housewives Association) will
speak. EVENING SESSION

Speak.

EVENING SESSION

5.10: From the Sydney Cricket Ground—Description of the play in the Second Test Match, South Africa v. Australia.

7.0: Sporting service, including Lancefield Race Results and Port Adelaide acceptances for Port Cup day. Cricket Scores in the Second Test Match, South Africa v. Australia.

at Sydney. Stock Exchange information supplied by the Stock Exchange of Adelaide, market reports.

7.25: The SCL Bluebird Girls' Club, conducted by "The Bird Lady."

7.45: Boy Scouts' Corner—An Address to Boy Scouts.

Scouts.

NIGHT SESSION

D: Radio Parade of Popular Artists in LISTENERS' SPECIAL REQUEST NUMBERS

8.0: Radio Parade of Popular Artists in LISTENERS' SPECIAL REQUEST NUMBERS. Artists—
Elsie Woolley, Mezzo-Soprano.
O. H. Summerton, Cornelist.
The Neapolitan Quartette.
Signor Lombardi, Violinist.
James Wilton, Violinist.
Guido Giacchino, 'Cellist.
Lynnie Gilbert. Soprano.
Stan Brown. Trombonist.
Richard Smith, Xylphonist.
William Robertson, Clarinetist.
The Harmony Duo.
Gordon Rele. Barltone.
James Rifey, Tenor.
Bill Runge, Entertainer
9.45: From 2FC, Sydney—Resume of to-day's play in the Second Test Match, South Africa v. Australia.
10.15: News Session.
10.25: Austradio Dance Music.
11.0: Close.

Disseminating Unlimited Joy and Happiness!

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AIRZONE "CUB"

Self-Contained

Screen Grid Radio



Completely equipped, with latest type Magna-Dynamic Speaker Valves incredibly priced at

29/6 Deposit-5/- Weekly for 52 weeks.

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"Sydney's Leaders in Radio"



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Stromberg-Carlson



N a review of the Stromberg-Carlson Superheterodyne 731, Mr. A. G. Hull, the Technical Editor of "Wireless Weekly," says: "This job is the most advanced receiver ever offered to the Australian public. Its range is positively unlimited, its selectivity such as has never been available to the Australian public previously, and the tonal quality is also quite outstanding. We predict a truly immense popularity for this job in the coming season."

Such a glowing tribute from an unbiassed critic is sufficient testimony to the remarkable performance of the Superheterodyne 731. Variablemu and Penthode power valve are used together with tone control, dynamic speaker and electrolytic condensers.

Nothing in radio receiver so modern is available upon the Australian market.

The Magnificent Convertible 731

DANTE 731 (7 valves using Variable-mu £46/5/0

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Radio Club News

(Continued from page 38)

portable transmitter and forward all reports to Mr. Hutchison.

The Bathurst branch of the club is progressing very well, and expects to be on the air with the transmitter early in the new year. The P.M.G. Department has approved of its licence, and it is endeavoring to obtain the call sign VK2BC. This branch of the club meets every Wednesday night at No. 8 Park Street Bathurst.

All interested in the club are asked to visit the meetings at 386 George Street, Sydney, every Friday night. The general meting begins at 7.15 sharp.

Lakemba:

THE Lakemba Radio Club held its 40th general meeting at the club rooms, 85 Haldon Street, Lakemba, on Tuesday, December 1, at 8 p.m. The president (Mr. Luckman) presided over the meeting. The attendance is getting better, but we would like to see more of the old gang. We know they are still around, so why not come along next club night? We welcome to the club the two new members, Messrs. Owen and Petty. It looks as if we will have to do away with the back seat or ask the president to make more use of the mallet. I noticed Mr. McReadie and Mr. Pollock were enjoying a joke. Perhaps they were relaxing after the sleepless nights of the test.

There being no lecture the meeting was closed at 9.15 p.m. to allow members to inspect a proposed club room Intending members are asked to call at the above club rooms or to the hon assistant secretary, W. G. Picknell. 79 Park Street, Canterbury.

A Christmas Appeal

THE T.B. soldiers in hut No. 17 at
Randwick have headphones connected to a set at the main office, but
would greatly like to be able to select
their own programmes from a loudspeaker set. Appreciating the joy
which would be given to these fellows
by a decent radio set, Mrs. P. C. Charlton, of Alma Street, Pymble, has collected £5 towards the cost of such a set,
and would be pleased to get in touch
with any other charitably-inclined people who can help her achieve her ambition to get a set installed in the hut.
Mrs. Charlton's 'phone number is JX
1517.



Xmas THURSDAY DEC. 24

2FC

SYDNEY, 451 Metres

Early Session

(7 to 8.15 a.m., Relayed to 2NC, Newcastle)

Morning Session

(10.30 a.m. to 12.30 p.m. Relayed to 2NC from 10.40 a.m.)

CRICKET.-Scores in the match N.S.W. v. Victoria, played at Melbourne, will be given at the fall of each wicket, lunch and tea adjournments, and stumps drawn.

The Lunch Hour

(1.0 to 2.30 p.m.)

The Radio Matinee

(2.30 to 4.30 p.m. Relayed to 2NC, New-castle.)

2.30; Announcements,

2.32: THE A.B.C. STRING SEPTET-The Vagabond King, Selection .. Friml

2.40: ANNE MELHUISH, Soprano-You Are My Heart's Delight .. Lehar Twilight Land Guest God Put a Rose in My Garden .. Lohr

2.47: SIDONIA BULOW, Pianiste-· · · · · Liszt

2.54: THE A.B.C. STRING SEPTET-To Love and To Hold You in My

Arms Burke
Janina Drumm

3.1: THELMA HOUSTON, Contralto-

The Arrow and the Song . . . Balfe My Prayer Squire

3.8: YVONNE CURTI, Violinist (r.)—
Madrigale Simonetti
3.11: THE A.B.C. STRING SEPTET—

An Eastern Romance Haines Sheep and Goat Guion Sheep and Goat Guion Serenade Mendelssohn

3.21: ANNE MELHUISH, Soprano-A Legend Tchaikowsky
Come a Waisaling Share

3.24: THE A.B.C. STRING SEPTET-Lollta Lollta Friml I Wanna Sing About You . . . Friend

60: A HUMOROUS INTERLUDE BY FRANK CRUMIT (recorded)— Donald the Dub Crumit And Then He Took Up Golf . . Crumit

3.36: THELMA HOUSTON, Contralto-

Still as the Night Bohm 3.39: THE A.B.C. STRING SEPTET— Invano—Valse Serenade Arnadei

3.43: MALCOLM McEACHERN, Basso

(recorded) Aylesbury Ducks Harding

3.46: ROTORUA MAORI CHOIR (r.)-Karannatia.

3.49: THE A.B.C. STRING SEPTET— I Can't Write the Words · · · · Fields Minuet—G Minor Symphony · Mozart Tea Cup Tinkles Logan

4.0: ANNE MELHUISH, Soprano-Unto Us is Born a Son Trad.

4.3: SIDONIA BULOW, Pianiste— Trinity Chimes Decker

4.10: THELMA HOUSTON, Contralto-The Snowdrop Craxton

4.13: RADIO RHYTHM (recorded).

4.28: Stock Exchange, Third Call.

4.30: CLOSE.

Early Evening Session

(5.45 to 8 p.m. Relayed to 2NC, Newcastle, between 5.45 and 6.45 p.m. and 7.5 and 8 p.m.)

6.45: AN ENGLISH LANGUAGE TALK BY MR. R. M. CRAWFORD, B.A.

7.5: News, Sporting Service, etc.

2FC TO-NIGHT AT 8.0 The A.B.C. Musical Comedy Company in



"WARATAH"

An Australian Christmas Pantomime in Two Acts.

By FRED WHAITE

CAST OF CHARACTERS:

Jack

Baron Bluegum

Willie (His Son)

Giant Boolaboo (The Big, Bold, Bad Giant of Australia)

The King Who Counts His Money

The Queen of Hearts

Mrs. Hubbard (Whose Cupboard is Always Bare)

Jill and Anna (Her Daughters)

Queen Boronia (Queen of the Australian Fairies)

Mountain Devils, Boys and Girls Employed on the Farm, etc.

Place: Australia

Time: In the Good Old Fairy Days

SYNOPSIS OF SCENERY:

Prologue: A dark, deep recess in the Jenolan Caves, Blue Mts., N.S.W.

ACT L-Mrs. Hubbard's Orange Farm at Kurrajong, N.S.W. On the Road to Sydney,

Outside the Dew Drop Inn, at Windsor, N.S.W. Outside the Palace Gates, Sydney. Ballroom of the Palace, Sydney.

ACT II.-The Aerodrome, Mascot.

Up Among the Clouds. The Haunted Forest. Outside the Giant's Castle. Interior of Giant's Castle. Entrance to Sydney Harbor Bridge. The Beautiful Palace of Waratahs.

> Produced by Laurence Halbert. Musical Ensembles by Madame Grieg.

The A.B.C. Orchestra, conducted by E. J. Roberts.

THURSDAY, DEC. . . . 24 (Continued)

EVENING PROGRAMME

(8.0 to 11.30. Relayed to 3AR and to 2NC between 10.30 and 11.0.)

8.0: THE A.B.C. MUSICAL COMEDY COMPANY in "THE WARATAH PRINCESS."

(See Panel overleaf)

10.0: Late Official Weather Forecast.

10.2: DANCE MUSIC FROM THE AUS-

10.15: RELAYED FROM 3LO, MEL-BOURNE-A talk on the day's play in the match Victoria v. N.S.W., played at Melbourne.

10.30: DANCE MUSIC.

11.30: CLOSE.

2BL

SYDNEY. 351 Metres

Opening Session

8.15 to 11.0 a.m.

10.35: THE A.B.C. WOMEN'S ASSOCIA-TION-

> Christmas Eve Suggestions. Health Education, by Miss I. Beetson.

Midday Session

12 noon to 2.30 p.m.

Note:-Scores at lunch and tea adjournments and stumps drawn in the match, N.S.W. v. Victoria, played at Melbourne.

Afternoon Entertainment

2.30 to 5.45 p.m.

2.30: Recordings.

2.42: SYD. BRIGHT, Banjoist (r.)-Banjoviality Bright

2.45: ALLEN McQUHAE, Tenor (r.)-Sound of the Irish Bells .. . Trent Come to the Fair Martin

2.51: Selections.

3.0: FRAULEIN LANGE will give a German Language Talk.

3.15: Dance Music from Farmer's.

3.22: FRITZ KREISLER, Violinist (r.)-La Vida Breve Arr. Kreisler

3.25: SIGRID ONEGIN, Contralto (r.)-The Fairy Pipers Brewer

3.28: Dance Music from Farmer's.

3.36: CLAPHAM and DWYER, Comedians (recorded)-

On Photography Dwyer

3.42: Dance Music from Farmer's.

3.50: PETER DAWSON, Baritone (r.)-The Gay Highway Drummond The Vagabond Williams

3.56: Dance Music from Farmer's.

4.2: Recordings.

4.12: Dance Music from Farmer's.

4.19: ANNA CASE, Soprano (recorded)-Doreen McGee Alleluja Mozart 4.25: Dance Music from Farmer's.

The Dinner Hour 6.15 to 8.0 p.m.

EVENING PROGRAMME

8.0 to 10.30 p.m. (Relayed to 2NC, Newcastle, between 5 and 10.30 p.m.

A.B.C. MILITARY BAND, 8.0: THE conducted by J. PHELOUNG— March—State Street . . . Whitey Overture-The Mill on the Rock,

8.10; FRED. WILLIAMSON, Baritone, 8.13: THE A.B.C. MILITARY BAND-

Berceuse Jarnefeldt Waltz—The Skaters . . . Waldteufel

8.23: EILEEN BOYD, Contralto-

The Enchantress Hatton In Haven Elgar

8.30: SIGNOR TORZILLO, Harpist-Halian Aria Parish Alvers Abide With Me Carey

8-37: THE A.B.C. MILITARY BAND-Pot-pourri-Melodious Memories,

Arr. Finck

8.55: FRED. WILLIAMSON, Baritone.

9.2: THE FAMILY PHYSICIAN, by our duly qualified Medical Practitioner.

9.17: THE A.B.C. MILITARY BAND-Classical Memories .. . Arr. Ewing

9.30: EHLEEN BOYD, Contralto-Knowest Thou That Fair Land, from the Opera, Mignon Thomas

Where Corals Lie Elgar 9.37: THE A.B.C. MILITARY BAND Trumpet Solo-Australis .. Lithgow (Soloist, BANDSMAN STANTON.)

Ole South Zamecnik 9.45: FRED, WILLIAMSON, Baritone.

9.48: THE A.B.C. MILITARY BAND-The Doll's House Suite .. Engelmann

9.58: SIGNOR TORZILLO, Harpist-Old Folks at Home (Trad.). Love's Old Sweet Song,

Molloy, arr. Torzillo

10.5: THE A.B.C. MILITARY BAND-Selection, Vagabond King .. Friml Christmas Carols.

10.25: Late News from the "Sun" and "World"

10.28: Late Weather Forecast. 10.30: CLOSE.

SYDNEY, 316 Metres

Day sessions as usual.

7.30: Address by Mr. Charlie Taylor.

7.40: Music.

8.0: Orchestra-

"Carneval Overture" (Dvorak)

8.10: Violin solo— "Estrellita" (Ponce).

8.15: 2GB Male Quartet singing Christmas Carols-

"Far Away" (Rivers). "Christians, Awake."

8.25: Orchestra-

"Spaventa" (Van Parry).

8.30: Jack Lumsdaine, The Radio Rascal

8.40: Orchestra-

"Love's Last Day" (Benatsky),

8.45: Soprano solo-

"Danny Boy" (Weatherley),
"I Know Where I'm Going" (Hughes)

8.55: Piano solo-

"Bees' Wedding" (Mendelssohn).

9.0: Waldos Shoe Interlude.

9.15: 2GB Male Quartet-

"John Peel" (arr. by Fletcher).
"Mammy Lou" (Cartwright).

9.25: Jack Lumsdaine, The Radio Rascal

9.35: Orchestra--

"Adoration" (Bianco).

9.40: Violin solo— "Serenade" (Drdla).

9.45: Organ solo-"Chanson" (Friml), 9.50: Tenor solo-

"Drink To Me Only" (Johnson) 9.55: Novelty Orchestra.

10.0: Instrumental Music. 10.15: Slumber Music. 11.15: Close down.

SYDNEY. 267 Metres

Day sessions as usual.

If the Second Test Match is still unfinished, scores and comments will be

given as usual during the afternoon.
5.15: Farmer's Children's Session, conducted by Uncle Jack and Jill. 6.0: Farmer's Dinner Music. 6.30: Fox-Hoyts Radio Club. 6.40: Music. 7.0: Request Items. 7.30: Musical Programme. 8.0: Special Recital of Xmas Songs, Ballads, and Sketches. 9.0: Talk on Foreign Affairs. 9.10: Music. 10.30: Close down.

SYDNEY, 293 Metres

Day Sessions as usual.

EVENING SESSION

6.0: Auntie May and Simple Simon.
7.1: Sporting Talk. Mr. Oscar Lind. 7.30:
Sporting. 8.1: Overture, "Carmen." 8.10:
Studio Programme. 10.1: Light opera
selection, "Gondoliers." 10.10: Music.
10.15: Close down.

MELBOURNE. 375 Metres

Day Sessions as usual. WOMEN'S SESSION

2.0: A Woman Sees New York—
"Women's Social Residential Clubs"—
Mrs. E. M. Beveridge.
2.30: A Goodwill Message, from the Bureau of
Social and International Affairs—
"Xmas Greetings from Overseas"—
Miss Nora Collisson, Secretary of the
Bureau.

Bureau

THE RADIO MATINEE.

Miss Nora Collisson, Secretary of the Bureau.

THE RADIO MATINEE.

3.0: Austral Brass Band—
Selection—'Lucia di Lammermoor' (Donizetti).

3.10: Merna Stewart, Soprano, and Signor Cerbassi, Harpist, in—
Ten Minutes of Old-time Melody.

3.20: Amy Stringer—
And Her Mandoline.

3.26: Austral Brass Band—
March: "Under Allied Banners' (Ollerashaw).
Waltz: "Will o' th' Wisp' (Bourne).

3.34: "The Master Four"—
In Harmonised Numbers:
"Toytown Party,"
"Stealin' Thru'."

3.40: Edith Parnell, Plano—
"Marurka in G' (Chopin).

3.43: Merna Stewart, Soprano, and Signor Cerbassi, Harpist, present—
A Cameo of Modern Music.

3.53: Austral Brass Band—
Fantasia: "Gems of Harmony" (Arr. Wagner).

4.0: Amy Stringer—
And Her Mandoline.

4.4: "The Master Four"—
"I know of Two Bright Eyes."
"Sweetheart."

4.10: Austral Brass Band—
Ballet Music from "Coppelis" (Delibes).

4.20: Acceptances and barrier positions for the VA.T.C. Races at Caulfield on Salurday (Boxing Day).

4.30: Close down.

During the afternoon progress accres in the Second Test Match, South Africa v. Australia, will be broadcast as they come to hand.

5.45: The Children's Corner.

6.0: Our Christmas Pantomime, "Up the Cnimney," A Christmas Pantomime, "Det he Cnimney," A Christmas Pantomime, "Up the Cnimney," A Christmas Pantomime, "Det he Cnimney," A Christmas Pantomime, "Ector and 'Orace."

6.5: Dorothy, Elise, Ernest; Flosshida the Fireplace Fairy, a Fairy, Santa Claus, Max, the Foreman of Santa Claus' Latory, Bingo, the Police Force of Santa Claus Land. Bog Bingo, Dog Jingo; Fairies and Workmen.

Time: The Night before Christmas.
Place: Santa Claus' Land.

men. The Night before Christmas.
Place: Santa Claus' Land.
15: "Bobby Bluegum," "Ector" and
"Orace" wish you Many Happles.

"Orace" wish you Many Happles
EVENING SESSION.

(Relaying to Station 2CO. Corowa, until
8 p.m.).

635; At Home and Abroad, by—
"The Watchman."

7.25: Christmas in Strange Lands—
"How Some People Keep II."—
Mr. George Matthews.
At approximately 7 p.m. "Stumps" Socres
in the Cricket Match, New South Wales v.
Victoria, played at the Melbourne Cricket
Ground; will be given.

NIGHT SESSION.
7.45: Transmission from Mordialloc

The Official Opening of the Mordialloc Carnival by the Prime Minister.

Christmas Eve Programme
(From the Studio.)

A.B.C. Concert Orchestra—
Christmas Overture" (Coleridge Taylors.
Christmas Carols.

8.10: Christmas Carols, sung by
The A.B.C. Carol Singers.
8.20: A Descriptive Novelty—
Isobel Ann Shead describes the Christmas
Eve shopping rush.
8.30: A.B.C. Concert Orchestra—
Fantasy: "A Dream of Christmas" (Kelei-

"A Christ-

Ab. C. Ab. C. Pantasy: "A Dream of beyl.

40: "Scrooge,"
Adapted from Charles Dickens' "A mas Carol," by J. C. Buckstone.

Characters:
The Ghost of Jacob Marley,
Ebenezer Scrooge,
Bob Cratchill (His Clerk),
Fred Wayland (His Nephew),
Mr. Middlemark.
Mr. Worthington.
Mrs. Cratchill.
Scrooge's Sweetheart.
The Cratchitt Children—
Martha.
Belinda.
Peter.
Tiny Tim.
The Boy Scrooge.
Fanny (His Sister)
Scene.

"Office of Ebenezer Scrooge."
Time:

"Office of Ebenezer Scrooge."
Time:
A Foggy, Frosty Christmas Eve.
Produced by Maurice Dudley.
Appropriate Carols by the A.B.C. Carol Sing-

Appropriate Carols by the A.B.C. Carol Singers.

9.20: A Christmas Fantasy.

The Southern Choral Society and
Stanley Brookes.

9.30: "The Fairy Bells."
played by
Dave Morrison.

9.35: Christmas Carols,
sung by
The A.B.C. Carol Singers

9.45: Christmas Message.
9.50: A.B.C. Concert Orchestra—
"In a Monastery Garden" (Ketelbey).
"In a Clock Store" (Orth).

10.0: Christmas Greetings

10.5: "The Fairy Bells."
played by
Dave Morrison,

10.10: A.B.C. Concert Orchestra—
Trumpet Solo: "The Star of Bethlehem"
(Adams).
Soloist J. Geary. Trumpet & (Adams).

(Adams).

Soloist: J. Geary.

Sheffield Shield Cricket.

(Relaying to Station 2FC, Sydney.)

10.15: Resume of the day's play in the match.

New South Wales v. Victoria, played at the
Melbourne Cricket Ground

10.30: Weather, etc.

10.35: Dance Music.

12.0: Christmas Carols, sung by The A.B.C.

Carol Singers.

12.15: Close down.

3AR MELBOURNE 492 Metres MELBOURNE.

Day Sessions as usual

12.1: Community Singing transmitted from the Melbourne Town Hall. Conductor: Mr. Frank Hatherley.

AFTERNOON SESSION.

2.0: Description of Sheffield Shield Cricket Match, Victoria v. New South Wales, at Melbourne Cricket Ground.
4.15: A further description of Sheffield Shield Cricket Match, Victoria v. Jew South Wales, at Melbourne Cricket Ground.
6.0: Weather data. Shipping information. Stump Scores and Close down.

EVENING SESSION.

6.15: Dinner Music.
7.32: Sporting Results. Acceptances and Barrier Positions, also Selections for the V.A.T.C. Races at Caulfield on Saturday, December 26, by Eric Welch.

NIGHT SESSION.

8.0: (Relaying to Station 2CO, Corowa)—
Christmas Pantomime,
"Princess Waratah."
Book and Lyrics by Fred. Whaite.
(Relayed from Station 2FC, Sydney).
(Programme not to hand).
10.15: News Session.
10.30: Close down.

BRISBANE. 395 Metres

Day Sessions as usual.

29; Longheon scores in the Sheffield Shield Match between New South Wales and Victoria. Note.—If the second Test Match has not concluded a description of the play will be relayed from the Sydney Cricket Ground between 1.15 n.m. and 1.30 p.m.

Progress scores in the Sheffield Shield match between New South Wales and Victoria will be announced at intervals.

EARLY EVENING SESSION

6.15: Christmas Hymns for the children, by St. Barnabas' Sunday School Scholars.

6.46: Combined Bedtime Story-tellers of 4QG will hold a party in the Studio.

7.30: The Royal Automobile Club of Queensland will provide a special holiday road bulletin for motorists.

7.40: News and Sporting.

NIGHT SESSION

8.0: The "Radio Sparks" will present a bright, tuneful continuous entertainment, featuring The Monocled Males (singers of quartettes). Little Hermie (Comedian). Phyl Maude (Novelty Pianiste). Harry Bornadale (Entertainer). Pat Malar (Soubrette). Rae Cahilli (Songs at the Piano). David Feisman (Bassbaritone). Incidental music by the AB.C. Concert Orchestra.

9.18: Canon D. J. Garland will describe a personal visit to the little town of Bethiehem.

9.25: Frank Coughlan and his Carlton Orchestra will provide a little dance music.

2.35: Aviation Notes, by Major W. E. Gardner A resume of Christmas activities in the air.

9.45: A Musical Interlude from the Studio—David Felsman Basso—"Ave Maria" (Cooper). H. Scott MacCallum (Violinist)—"Cavatina" (Raff).

Phyllis Dauth (Soprano)—"Peace" (Schu-

Scott MacCannin (Raff) ayllis Dauth (Soprano)—"Peace" (Schu-

H. Scott MacCallum (Violinist)—"Cavatina" (Raff)
Phyllis Dauth (Soprano)—"Peace" (Schubert).

A Few Minutes of Humor.

10.0: Final News Bulletin.

10.10: Dance Music.

10.30: The A.B.C. Concert Orchestra—"A Dream of Christmas" (Ketelbey).

The Metro Male Quartette—
"Adeste Fidelis" (Hammerei).
Harry Borradale (Elocutionist)—"Christmas at Sea" (Robt. Louis Stevenson).

The Concert Orchestra—"The Sacred Hour" (Ketelbey).

Will Donald, junr. (Tenor)—"The Star of Bethlehem" (Adams).

The Metro Male Quartette—"Hark the Herald Angels."
The Metro Male Quartette—"Hark the Herald Angels."
The Concert Orchestra—"Sanctuary of the Heart" (Ketelbey).

Ernest Harper (Barltone)—"Nazareth."
The Metro Male Quartette—"We Have Seen His Star in the East" (Simper).

H. Scott MacCallum (Violinist)—"The Lost Chord" (Sullivan).

Tom Muller (Entertainer)—"Christmas Bells."
The Concert Orchestra—"Christmas Carols."
Harry Borradale (Entertainer)—"Christmas Eve on the Overland Express" (Murphy).
Max Muller (Cellist)—"Largo" (Handel).
The Metro Male Quartette—"Christians Awake."

The Concert Orchestra—"Evening Star" (Wagner).

Will Donald (Tenor)—"The Holy City" (Adams).
The Metro Male Quartette—"While Shepherds

Will Don. (Adams) The Metro (Adams).
The Metro Male Quartette—"While Shepherds Watched."
The Concert Orchestra—"Dawning Day"

Watched."
The Concert Orchestra—"Dawning Day"
(Frommel).

12.1: The Solemn Midnight Mass will be broadcast from St. Stephen's Roman Catholic Cathedral.

1.15: Close.

ADELAIDE, 411 Metres

Day Sessions as usual.

During the day acores of the Sheffield Shield Match, N.S.W. v. Victoria, at Melbourne, will be broadcast immediately they come to hand.

7.30: "Slivius" selections for Saturday's races at Cheltenham and Caulfield.

7.35: XMAS EVE. Xmas Eve Recital of Seasonal Recordings.

80: A SPECIAL CHRISTMAS CAROL

PROGRAMME

By The Moonta Cornish Choir (75 Voices), conducted by Mrs. J. L. Davey, with Novelty Instrumental and Vocal Selections by The Lyric Male Quartette and The Plaza Trio. The Plaza Trio—Overture of Popular Selections.

The Plaza Trio—Overture of Popular Selections.
Christmas Carols by The Moonta Cornish Choir—(a) "While Shepherds Watched."
(b) "The New Born King." (c) "Awake With Joy."
The Plaza Trio—Selections.
The Lyric Male Quartette—Negro Spirituals.
The Plaza Trio—Selections.
Moonta Cornish Choir—Kmas Carols: (a) "It Came Upon the Midnight Clear." (b) "Hark. What Music Fills Creation." (c) "Hall. Ever Hall."
The Plaza Trio—Selections.
Lyric Male Quartette—Request numbers.
Moonta Cornish Choir—(a) "Caim on Listening Ear of Night." (b) "Joy to the World,
The Lord Is Come."
The Plaza Trio—Selections.
Lyric Male Quartette—Request Numbers.
Lyric Male Quartette—Request Numbers.
The Plaza Trio—Selections.
Lyric Male Quartette—Request Numbers.
The Plaza Trio—Selections.
Moonta Cornish Choir—(a) "High Let us Swell Our Tuneful Notes." (b) "The First Noel."
The Plaza Trio—Novelty Selections.
10.25: Special Christmas Eve Reproductions.

HOBART. 517 Metres

Day sessions as usual.
7.45: Miss M. Rowlands, Talk: "A Joyride Round the World."
8.0: A Christmas Story.
9.5: Christmas Medley in reproduction presenting Christmas Eve in the Old Homestead, A Jolly Christmas. Christmas Eve in the Barracks.
10.0: News.
11.0: Close down.

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READERS' QUIERIES ANSWERED

DXIA (Auckland).—The transformer will serve although slightly under the power originally specified. Price's Radio Service, of Angel Piace. Sydney, will probably supply the plan for a small charge of, say, 6d. Feel sure however, that once you obtain the base and the components you will be able to tit them up as shown in the photographs without difficulty.

K.H.P. (Haberfield).—Well designed and constructed cabinets, such as the better quality types turned out by leading cabinet factories, are capable of acting as efficient baffler, and a loud speaker fitted in one of these cabinets will be capable of giving excellent results. Some tranks prefer a large baffle board of toch thick colotex, about five feet square. Theoretically this practice should give best possible re-croduction of low notes. A solid inch thick board in one piece will serve instead of the celetex.

W.S. (Darlinghurst).—Any of the radio schools will issue a diploma or certificate to their successful pupils, but if you don't want to take a course of study these certificates will not interest you. Again, the Wireless Institute inducted some examinations some time ago. Probably they would issue you with the kind of tertificate you require. Get in touch with the secretary at 15 Castlereagh Street.

the secretary at 15 Castlereagh Street.

Dissatisfied (Tamworth).—(1) Can only guess at the valves being vick. (2) Get the set into decent working condition and you should be able to get the same results as about 2000 other readers did who worked from the same instructions. (3) Check over and find out that components are faulty. (4) There was no need to deviate from the original instructions in any respect. (5) No. (6) All the hints we could ever imagine have already been published and since they seem to have been sufficient for 99 per cent of our readers it supears to bear out our idea that probably one of your valves is below standard, the atteries flat speaker stuck, serial not sufficiently insulated, earth not effective, or something like that. The mere fact that originally on completion the set gave such clear, undistorted, and terrife volume is certain proof that the trouble lies at your end, not ours.

A.W.K. (Artarmen).—The circuit shown is O.K. and should give satisfactory results. However, if you want to be certain of immediate satisfaction without any experimenting, you would be safer with the original circuit, as in that case the comparatively high bias on the power valve means that resistance values are not nearly so critical as with the pentode.

J.A.D. (Waratah).—The simplest and quick-est way out of the treuble is to take back the speaker and have it exchanged for the type specified. There is no other casy way of ac-commodating it in the set.

L.M.H. (Sandgate).—Afraid there is no easy way out of the trouble. If you fit fixed concenser personneally it is probable that the set will not tune down low enough. Since we take it that you do not want to have three switched for the fixed condenser, we can only suggest that you add more furns to the secondary windings of the coils. About ten or fifteen turns will be required an each unit. Add the same number of turns throughout, and try to keep the tension and the spacing of the windings the same. There should be no need to insulate the last condenser in the manner mentioned. Try the t.f. valves without any bias, returning the C bias lead to earth instead of to the eliminator 2 voit tapping. R.f. chokes in the screen leads may nake the job more stable, but if fitted you must sho arrange by-pass condensers from the screens to earth. You are certainly getting good results, but even these may 'be imuroved with careful matching of the tuning circuits.

L.P. (Belmore).—The reason why you cannot

E.P. (Belmore).—The reason why you cannot pick-up any station below 2KY is beyond us, particularly since it appears that your condensers are not fully onen when you are on 2KY, as would be the effect if your coils lacked sufficient inductance.

A Beginner (Maroubra).—Other things being equal, it is probable that the use of a power park with a set using headphones will merely result in your suffering a headache from the hum which will be heard.

A.C.W. (Guyra).—The system of coupling is all right, but apparently there is some other trouble in your set. We feel sure that even if you fit of, transformers the trouble will still persist. However, your best plan is to try the experiment and see for yourself whether the tuned anode is responsible or whether there are other faults.

ROWE ST. SYDNEY **COLVILLE-MOORE**

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Cousin Jack (Stantherpe).—Would suggest you use the Super-six circuit, but with the Philips valves and coils suggested by them. Otherwise the coil specified by us will do equally well. Thanks for the good wisnes. The gentleman in question is now definitely settled on the other side, and we doubt if he will ever return to his native country.

Cortigenda (Willoughby).—Propably a fixed condenser of 901 or so between one of the leads and earth at half-way between the speakers will cure the trouble. If not try one from each lead. Otherwise try the condenser between the leads at the far speaker. If all elies falls run a third wire closely alongside the others and earth it.

M.U.G. (Richmond).—Yes, the tuned anode coupling is quite O.K. for the screen grid valves. The bias should be between 1 and 2 volts, and the present biassing arrangement should be O.K. You may still strike untold snags on changing the valves, but as you say, the 1½ amps is terrific.

W.A.C. (Broken Hill)—Instead of earling the centre-tap you might try earthing it through a 100,000 ohm grid-leak. The trouble is hard to excitain, and nersonally we have never encountered it elthough we have handled quite few of such sets. The blue glow in the nemiodes is O.K., as detailed in a recent issue. The buffer condensers will only affect hum when the set is tuned to a retain. Is the set cuite silent between stailons? If so, the buffers should help, but otherwise there is some other trouble.

S.K. (Rockhampton).—If the set was built exactly as detailed by us it should not suffer from hum, and it should give good results from interstate stations. Unfortunately from your remarks we are guite unable to nick out a clue which will indicate to us where the trouble may be. Possibly the detector valve is a bit sick. Even valves which light up all right have a nasty habit of spoiling results with hum and lack of volume generally. To fit a pick-un insert a double circuit lack in the lead between the bottom of the grid coil of the detector and earth.

W.H.S. (Lithgow).—Trust article has now appeared as requested. You will probably find that the 235 will replace the 224 in your set, but at the same time it may not give any improvement in performance. A new volume control is, however, a simple matter to fit and should be worth while.

E.T.S. (Surry Hills).—We regret that the in-formation published was all that we have on the subject. Why not write to the agents direct? They cannot do werse than refuse the information.

J.D. (Bondi).—We would only suggest replacement of one or two of the screen srids with variable-mu valves. These can be fitted without any alteration, but if so desired a more effective volume control can be arranged by incorporating something on the lines of the twne shown in the circuit of the "Improved 1830 Four." Similarly the fitting of an F443 should be carried out as shown in the "Improved 1830 Four." and on no account do we recommend you to attempt to load up the pentode with the 550 volts specified by the makers. The valve will stand the voltage doubtless, but all sorts of uncalculated overloads can occur in actual practice, making it a far better proposition to keep the voltage down to 490 or 450. Originally the 235 was raled to draw about 12 mills current in all, but the samples so far placed on this market do not draw more than half this current.

J.L.M. (Strathfield).—There are various transmitters at Pennant Hills working under the call sign of 2ME. One of these has a wave-length of about 195 metres and can often be heard calling the trawlers on Sunday evenings on this wave length. It appears to us that this station is the one you heard. When testing a station it is often a practice to read from a paper or bock and then count up from one to ten and close down. Our only suggestion is that the station you heard would be 2ME testing.

G.A.R. (Warrhambool).—If yours wasn't merely one of about 500 letters in the basket waiting to be answered we'd write you a decent answer of about a page. Your first question is, "Am I an optimist?" The answer is in the affirmative. Personally we've always had kind-hearted landlords, secondly we've never had to rely on other people's scrapped lunk to "make do," and consequently we haven't the slightest knowledge of the subject in question. In a case like yours we'd feel inclined to go to the nearest electrical not radio expert and get his advice. The transformers can be used as shown in the circuit, but we'd point out that probably a high gain triode would make a better detector in every way and give better overall results. The friend's speaker is one thing you ough to pinch next time is not looking. Sad to say the valves don't soil the climate or something of the sort, and neither traders nor home builders will tolerate them. As you may have noticed in the

Christmas issue we step on to 4 volts again, but we are not at all optimistic about the reception which will be aftered to them. For cole for the set would think you will not do better than the ordinary coils we specify We fancy that by the time the article in question is completely finished you will find the English adopting lots of English piscoics. The proof of the pudding is the eating thereof and we've been fouturate enough to hear new models from both countries, and although teriloly roughly buill, the Yanks can certainly pull the far distant stations in, with selectivity, ease of control, and pleasant one asso, no hum, and what's more, they run for years without attention. However, as we said before, both countries are learning a lot from the others and in time the position may be reversed.

Baby Aster (Esmet).—Generally speaking we find it better not to recommend readers to try to improve upon the commercially-made sets. If you let us know what type of valve you nave at present in the last socket we can easily let you know what type of pantode will replace it or any dealer could let you have the information. In fitting the pentode the only alteration necessary will be an extra lead from B plus maximum to the terminal on the side of the pentode. The pentode should give you signify greater volume with alightly greater battery consumption, but we doubt it it will give as much extra gain as an extra sadio stage.

E.W.L. (Strathfield).—As originally described the Lake One-valver was not intended for mounting on an aluminium base, but there is no concrete reason why you should not build it up on an aluminium base if so desired. To reduce the capacity of the condenser you will need to remove nearly one-third of the fixed or the moving plates, whichever are the easier to remove. The actual proportion will be as 25 is to 35, so you see you need to remove two plates out of each seven fitted.

General.—Mr. E. W. Lee, of Roubsix, Liandilo Avenue, Strathfield, is desirous of obtaining an issue of 13/2/31. Anyone able to help this reader is invited to write him direct at the address given.

address given.

R.H.B. (Parramatiz).—You will need to remove some turns from the main coil winding in order to bring 2UW up farther on the dial. With the tapped coil specified it should be an easy matter to get the desired effect by adjusting the clips nearer to the centre of the coil. Personally, we think you are getting excellent results when you can get all the local stations with so little interference.

Munda (Girllambone).—We regret that we are unable to put you in touch with any firm which has second-hand but serviceable carboncels on band. Probably your best plan would be to communicate with the agents direct.

F.R.H. (Newcastle).—We regret not naving

communicate with the agents direct.

F.R.H. (Newcastle).—We regret not having any information about the use of the opt-of-date valve with the reflex selectif. Can only suggest you experiment for yourself in the matter. Doubt if a C battery would be needed under the circumstances. The .06025 will be O.K. for reaction. On further thoughts, it seems most unlikely that the valve will be suitable.

E.A.P. (Brisbane).—Your results are quite normal, and we would imagine that your wavetrap is about as effective as possible. Selectivity is usually a problem with the earth on the aerial terminal, and we do not know of any easy way of retaining the additional pick-up without also retaining the interference trouble from the nearby transmitter.

SEEKERS OF INFORMATION

Readers are requested to simit the number of their questions and to be as concise as possible Special circuits cannot be supplied in every case, ner can information be given over the telephone or by letter. Those readers desiring information services are invited to make suggestions for article covering the particular phrase of practice or which information is connique on reaction of the particular phrase of practice or which information is connique on reaction is a connique of the particular phrase phr Let a lied he day and the late hade

w.B. (Burwood).—Whilst we don't want to offend you or he rude or anything like that, we would like to point out that the question you ask has been answered many dozens of times in these columns, and also dealt with in the article that introduced the set in question, as well as at least six other articles. The current flowing through the pentode then flows through the speaker field in the superhet, so that 42 mills, is the total draim. Adding more valves still means that the drain is not increased, as the current for the valves is taken from the high tension supply after it has passed through the pentode. If you look up the circuit you will find that the rectified current has only a couple of ways in which it can go, one being through the high resistance grid leaks, which can only pass a mill or two, and through the pentode valve, where the total screen and plate current cannot exceed 40 mills. With the variable-mu job we put a voltage divider across the output, and this took some current.

H.S. (Adaminaby).—At first glance it looks as though we are clean bowled, but we think you are stretching things a trifle. From what we remember 90 volts is the maker's recommendation, but we doubt if they state that a voltage exceeding the maximum of 90 volts should not be used. Undoubtedly a tecnnical error has been committed, but fortunately in actual practice the set still works perfectly, and we've never heard of a case of the valve objecting to the slight overload. The other effect; more or less normal, and is simply due to the extra resistance in the circuit.

S.H.L. (Weilsteneeraft).—Your second last paragraph hearly broke our heart. The "1930 Pour" is a Loftin-White circuit in so fat as it employs an audio system known as "direct-coupled" and covered by patents held by Loftin and White. This has been explained many dozens of times However, we're glad to hear that you are so proud of your set, and would suggest that your troubles are due to a faulty filter condenser. It would be a good plan for you to work out the fitting of a screen-grid of, stage. This would give you some interesting work, and would greatly improve results without much synches.

1.S. (Stanmore). The circuit you require is out of date, but we think you will be able to obtain one from a pamohlet issued by the Carborundum Company, which you should be able to procure direct from the agents. Messrs. Eliza Tinsley Co., of 484 Kent Street, Sydney.

G.R. (Paddington). In the light of modern ideas the circuit is simply crazy, and we cannot recommend you to touch it. Have no idea of the coil winding data, and cannot trace them.

R.F.C. (Globe).—Reception conditions are fair. Apparently the connections to the reaction coll are reversed. At any rate, try them the other way round. You don't stand a chance of getting strength or range until you get the reaction into correct operation.

New Era (Crow's Nest).—Can't make head of tail of your trouble with the set with hiccoughs. The usual thing to suspect would be the grid-leak, and perhans the grid-condenser. Possibly you have got hold of a valve with some peculiar complaint. It must be most disappointing to you because of the excellent results with the first 'et you built from the same instructions. We've read right through the letter again, but still feel pretty helpless.

J.McK. (Balmain).—It appears to us that you have tried every conceivable way of fixing the set, and we can only suggest that you call in a reliable service man to help you. Are you sure that the trouble is not simply that the set is not operating correctly on the lower wavelenghs, thereby making it necessary for you to use too much reagtion in an attempt to bring up the strength?

A.G.T. (Bathurst).—(1) Yes, add the extra rf. (2) If you are fitting a modern type dynamic speaker you will not need the centre tapped choke, as the speaker will be fitted with the oush-pull input transformer. If you wanted to use a magnetic speaker or something like that you could feed the push-pull valves through the centre-tapped choke and take the speaker leads from each plate. The speaker fields draw from '5 to I ampere. The speaker can be fairly easily altered.



J.J.S. (Richmond River).—The only really satisfactory method we know is to use the audio transformer as a choke as shown at the head of these queries a few weeks ago. The date of the issue was August 14. If you do not happen to have the issue on hand it can be obtained from this office at the usual price of 3d, plus 1d postage.

Morse (Petersham).—It is a difficult matter to find an easy way to fit a screen grid valve into a two-valve set to improve results. For best results the detector should be followed by resistance coupling as in the short-wave set published some few weeks ago Short-wave adaptors are right enough for battery operated sets, but we do not recommend them for ac. jobs. (3) For such a poor location it will be necessary to employ a stage of band-pass filter ahead of the first valve as employed in the "Hi-power 2" of some months ago. To obtain really satisfactory results a superhet is desirable. With the advent of 2SM and 2CH the selectivity problem may become acute

New Era Five (East Maitland).—We cannot understand how the switch can fail to cut off all reception. If the switch makes definite contact with the lead running to the water pipe it should most certainly stop any chance of your set being damaged by lightning, but similarly it should cause instant cessation of radio reception

H.L.L. (Campsie) -The 'Forty Four' would make a suitable set for fitting in a car. Of course the running of the engine will interfere with reception unless you take several precautions to cut down the radiation of noise from the spark plugs and ignition system.

J.W.C. (Wellington).—We cannot possibly tocommend you to use three element valves as r.f amplifiers. The practice is now quite out of dats. A very small condenser is required for the position you mention. About 6001 should serve.

A.H.D. (Childers).—The use of a rotary converter is by far the most actisfactory means or attacking the problem of running from domains, the cost being the chief objection to the idea. Results will depend to a great extent upon the quality of the converter. Prices of converters run about £20 to £30. Write O'Donnell and Griffin, S1 Druitt Street, Sydney, for price lists and full particulars.

R.D.B. (Strathfield).—We cannot see any trace of the article you mention, although we, too, have an idea it appeared some time ago. Have been right through our index without seeing any mention of it.

T.G.L. (Lithgow).—The circuit now appears O.K. A pentode should give you dightly greater volume and sensitivity, but it will also take far more current from both your A and B batteries.

General.—Mr. J. Smith, of 77 Morris Street. Summer Hill, is desirous of obtaining the issue with the full details of the "1930 Three." Anyone who can assist this reader is invited to get in fouch with him direct at the address given.

J.B.K.S. (Summer Hill).—Notice has been neerted as desired. The "1930 Three" used the valves mentioned. For an acrial the right length of wire depends upon the set used, the distance from the nearest transmitting station and many such factors. There is nothing like a little experimenting in this direction. Too large an aerial means interference between station. Would suggest 50 feet long at a height of about 30 feet.

L.W. (Ringwood).—You are wrong in the the maker's recommendation is Scovelis. The ratings shown in valve catalogues show the absolute maximum voltage at which the valve should be operated. Owing to the internal construction of high-powered pentodes they are not capable of withstanding say great overload without damage. Since mains supply varies from about 126 to 250 volts, and ye have a ziep up transformer of about 3 to 1 ratio, any variation in the line voltage is trebled. Why not carry out our recommendation? It was not given just for fun. We happen to know more than you might imagine about high voltage pentodes working at full voltage. With 400 odd volts on the plate ine pentode is capable of giving greater lower than can be handled by any normal speaker, or tolerated by any household. Again if you have the full 550 together with a couple of hundred on the centre tap you need a night tension of 750 volts, but where will you get filter condensers to stand up to this voltage? The answer to your question is "No."

L.A. (Dulwich Hill).—A series of articles dealing with the suppression of interference from electrical machines ppeared about Pebruary last. Unfortunately in a case such as yours there is little vou can do. An areing switch is simply a small transmitter radiating signals on all wave-lengths. Sparking probably airo occurs with the hairdressers' machinery, the flashing signs and the other machinery. The Radio Inspector, of 219 Castlerezhstreet, is always keen to help listeners to get the pest possible results, but in cases such as you mention there is not much that he can do to help. To attack the trouble you should work on the machines, not your your set. Conditivers of 1 mfd. capacity can be litted across he flashing signs, but all this class of work must be carried out by a licensed electrician.

W.f.S. (Randwick).—The trouble appears to be due to a faulty valve. Would suggest you take the valves to a reliable dealer and have nim test them with meters. About 90 per cent. of radio troubles are due to faulty valves, as they are about the only parts affected by use. There is no need for the set to be tampered with if the valves are the trouble.

J.A. (Coogee).—Naturally when you say that several experts have examined your set and still failed to trace the trouble we feel rather helpless at this distance, without being able to see he set and without having the slightest clue to the trouble. We would suggest you obtain a small thece of wire and fit across between the aerial and earth terminals or leads. If the hum immediately stops you can take it that it is picked up from an outside source, but if not then it is in the set or the power supply. Would suspect that a wire has dropped off a connection inside the set if the hum continues. Possibly the filter condensers have become open-circuited, but this is untilled, Would think your best plan is to call in a radio service expert who guarantees his work. We believe one of our advertisers carries out this class of work on a "no results, no pay" plan

Searcher (New Zealand).—Sorry, but there seems little hope of getting a copy of the issue with the "Super-Six" description. How about having a go at the "Infinite Six," probably it would suit your recovirements even better that the original job? Will, however, insert a notice to see if it will help you obtain the original.

General.--Mr. George Ferguson, of Box 23. Rawene Hokianga. New Zealand, would like to obtain the loan of the issue containing the constructional article on the "Super-Six" battery set Anyone interested is invited to get in touch with this reader direct.

G.W.A. (Gilgandra).—If you are going to use a large actual with a gammed job you should nut a .00035 mid flaved condenser in the actual lead-in. From your remarks it appears to us that probably your condenser plates are padly bent or the rotors are out of centre with the fixed plates. The coils and the condensers make up the tuning staces, and the trouble lies in either coils or condensers. Whichever circuit has too much inductance or causacity can be brought into line by the removal of turns from the coils, baying the same effect as setting the rotors farther out from the stators. The matching of the coils has been described about ten times in the last three months. Have a look at any of the recent constructional articles, such as the improved "1930 Four."

D.L.T. (Canterbury).—Trust your reply has several weeks ago but must be held up waiting scace for publication. The pentode used as a detector has an undistorted output of only shout 400 milliwatts, trespective of the amount of rf. stasses ahead of it and is consequently no weak for decent loud speaker results. (2) In actual practice they are often very much inferior, contrary to exceptations, and are also most unserviceable, usually giving out after a few hours' running, comparatively, (3) Jensen D8 first preference. De second choice. Get the special pentode input transformer, or use a nush-pull ish with the two halves of the primary in series. The little midgets are not careful of giving the very good tone you demand, the article on the variable-mu appeared in esue of July 31. Mu stands for amplification factor.

G.P. (Annandale).—The trouble is obviously in the stid leaks, and we feel sure that you have failed to carry out our recommendation in the brands of grid-leaks used and the trees. If you have carried out our instructions, then it looks as though they are wronzly rated or possibly they are rated with a color code which you have not properly understood. The indication is that the quarter mea revisions are only 25,000 ones or something like that. It is remotely possible that the detector valve is faulty, but we suspect the leaks. A complete replacement of them may be cheapest in the long run.

F.G. (Burringbar).—We thank you for the letter, and endorse the opinion that it is up to the readers o let us have full details of the troubles they encounter together with a summary of the final results. The matter of mentioning the brands used, etc., is not so good, and is likely to be seized upon by unserves free advertising in a decentive way Our hope of writing articles to suit the readers less entirely with the readers themselves. At all times suggestions are carefully considered, and it is not necessary to have to ask questions in order to write to the information Service. All oueries are answered individually by the technical editor and three is no surer way of reaching his ears than to write in the ordinary way. Again thanks for your letter.

R.M. (East Prahran).—Sorry to say that the subject is beyond us. In order to get an undistorted output of a couple of watts you will need about 40ve or ten watts of power for the cutput valves alone, anatt from the filaments. To provide such power from batteries is just about as hopeless as trying to run the filaments of power valves from a battery. Even the 245 type valve takes 145 amps for the filament, and this is a terrific drain for any form of accumulator. Candidly we'd like to entirely discourage you, and suggest a transportable a.c. job which can be plugged into the nearest power socket.

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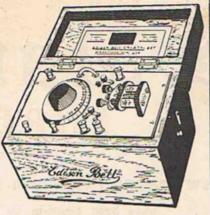
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