

# Programmes Continued

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## 2FC ON SHORT WAVE

### SPECIAL TRANSMISSION.

Experimental transmission on 28.5 metres was conducted from 2FC Sydney on Monday last from 5.15 a.m. to 7.10 a.m., New Zealand time. A specially good programme was submitted for reception in Britain, Canada, and the United States, reception in Wellington being at splendid loud-speaker strength. The test was arranged by Amalgamated Wireless (A.S.), Ltd., and was also transmitted on 442 metres for the benefit of Australian listeners.

Radio stages of amplification, added to a detector valve, will oscillate, due to feedback from the plate to the grid circuits of each tube, due to capacitance between the elements of the tube. The use of a neutralising condenser is to neutralise the effect. This allows of the radio stages being worked almost on the point of oscillation, which is the point of extreme sensitivity. Stations then come in without heterodyning. Should regeneration be introduced into the detector circuit, a greater signal strength will be obtained, but the quality of the signals will not be as good. Thus for purity of tone one should exclude regeneration from a circuit using a sufficient number of valves to bring the volume of signals up to normal.

If a variable condenser is used in the primary circuit (the aerial circuit) of a receiving set, it is best to connect it on the ground side of the primary winding, with the rotary plates attached to the ground binding post, so that body-capacity effects will be minimised. The rotary plates of the secondary variable condenser should always be connected to the filament of the valve, never to the grid, for the same reason.

There are approximately 90,000,000 people who now receive radio programmes, according to a report made to Secretary Herbert Hoover by Lawrence D. Batson, of the Electrical Equipment Division of the United States Department of Commerce. About 18,000,000 sets are used. At least 200,000,000 sets would be necessary to serve all the people, there being five persons to every set.



Mrs. J. Marshall, a regular singer at 4YA.

Lead ore (Galena) has been used successfully as a rectifier of radio frequency impulses ever since the beginning of radio, and it is still in use. This crystal is extremely sensitive, but will not retain adjustment when detecting a large signal voltage; thus, this crystal is exceptionally good for the rectification of weak impulses. This crystal could be used where signals are weak. The application of the catwhisker should be light, as a heavy pressure will prevent it from rectifying.

A representative of the recent New York radio fair said that great interest was being shown in radio parts, revealing that many listeners expected to build their sets during the coming year. The smallest details of both sets and parts have been the subject of unusual attention by the younger generation of show visitors, he said.

Australian broadcasting stations are not allowed as a general rule to send over the air straight-out messages to individuals. Exceptions are sometimes made, however, as in a case which came under notice this week. A man living away up in the bush came to Sydney to undergo a serious operation. His family are beyond reach of telegraph, and it takes four days for a letter to reach his home. In these circumstances the radio inspector readily agreed to station 2BL sending "a bulletin" every day as to his progress to his friends in the country.

## RADIO LITERATURE

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THESE PRICES INCLUDE POSTAGE.

## 3YA CHRISTCHURCH (306 METRES)—THURSDAY, NOVEMBER 10.

- 8 to 8.30 a.m.: Breakfast session—News items; the day's race card; conditions of roags; attractions in Christchurch for the day.  
Gramophone items.  
11.30: Relay—Description progress Metropolitan Trotting Club's meeting at Addington.  
5.30 to 6.30 p.m.: Children's session, by Uncle Jack.  
6.30 to 7.15 p.m.: Orchestral music.  
7.15 to 8: News sessions.  
8.0: Chimes. Relay of orchestral selections from Everybody's Picture Theatre Orchestra, under conductorship of Mr. Albert Bidgood (with kind permission of management).  
8.15: Bass solo—Mr. T. D. Williams, "Zummerzetshire," Newton.  
8.19: Soprano solo—Miss Frances Hamerton, "I Know a Bank," Lehmann.  
8.22: Quartet—Christchurch Broadcasting Quartet, "The Hunting Song," Benedict.  
8.26: Tenor solo—Mr. Russell Sumner, "Mistress, Mine," Quilter.  
8.30: Instrumental trios—Christchurch Broadcasting Trio, (a) "Ave Maria," Gounod; (b) "Turkish Rondo," Mozart.  
8.38: Humour—3YA Announcer, "My Own Punch" (funnies from real life).  
8.42: Contralto solo—Miss Belle Renaut, "Off to Market, Johnny," Humphries.  
8.46: Vocal duet—Miss Frances Hamerton and Mr. Russell Sumner, "You Swear to be Good and True," Cellier.  
8.50: Instrumental trio—Christchurch Broadcasting Trio, "Souvenir de Sorrento," Severne.  
8.55: Bass solo—Mr. T. D. Williams, "Gee Wup, Hosses," Smith.  
9.0: Relay from Everybody's Theatre.  
9.15: Contralto solo—Miss Belle Renaut, "Danny Boy," Weatherley.  
9.19: Tenor solo—Mr. Russell Sumner, "Linden Lea," Williams.  
9.23: Soprano solo and chorus—Miss Frances Hamerton and chorus, "They All Follow Me," Kerker.  
9.28: Contralto solo—Miss Belle Renaut, "Ma Lindy Lou," Strickland.  
9.32: Relay of band music from Olympia Show.  
9.42: Tenor and bass duet—Messrs. Russell Sumner and T. D. Williams, "Excelsior," Balfe.  
9.47: Soprano solo—Miss Frances Hamerton, "Morning Song," Quilter.  
9.50: Humour—3YA Announcer, "Daniel and the Lions."  
9.51: Soprano and tenor duet—Miss Frances Hamerton and Mr. Russell Sumner, "When We are Married," Kerker.  
9.55: Instrumental trios—Christchurch Broadcasting Trio, (a) "Prelude in C Sharp Minor," Rachmaninoff; (b) "The Doll Dance," Poldini.  
10.30: Close down.

## 4YA, DUNEDIN (468 metres)—THURSDAY, NOVEMBER 10.

- 7 p.m.: Town Hall chimes.  
7.1: Request gramophone recital.  
8.0: Town Hall chimes.  
Special programme for dancing by the Kapai Dance Band and assisting artists.  
8.1: One-steps—Kapai Dance Band, (a) "Hello, Bluebird"; (b) "What's the Use of Crying?"  
8.7: Baritone solos—Mr. J. Clarke, (a) "Bedouin Love Song," Pinsuti; (b) selected.  
8.13: One-steps—Kapai Dance Band, (a) "Mary Lou"; (b) "Idolising."  
8.19: Violin solo—Mr. Dagg, "Serenade," Schubert.  
8.23: Quadrilles—By the Kapai Dance Band.  
8.30: Saxophone solo—Mr. M. Horn, "O, Star of Eve," from "Tannhauser," Wagner.  
8.34: Waltzes—Kapai Dance Band, (a) "Paradise in Mother's Eyes"; (b) "So Blue."  
8.40: Soprano solos—Miss Marie Tucker, (a) "The Star," Roger; (b) "Pale Moon," Logan.  
8.45: Address, by Rev. H. E. Bellhouse, "The League of Nations."  
9.0: Baritone solos—Mr. J. Clark, (a) "Five-and-Twenty Sailor Men," C. Taylor; (b) "Muldeer of Malagar," Trotter.  
9.6: Fox-trots—Kapai Dance Band, (a) "Blue Skies"; (b) "Mamma's Gone Young."  
9.12: Cornet solo—Mr. R. Shannon, selected.  
9.16: D'Alberts—By Kapai Dance Band.  
9.22: Waltz selection—Kapai Dance Band, "Old Airs."  
9.28: Soprano solo—Miss M. Tucker, "Wait," d'Hardelot.  
9.34: Medley selection—Kapai Dance Band, "War-time Melodies."  
9.40: Violin solo—Mr. D. Dagg, "Souvenir," Drdla.  
9.45: Saxophone solo—Mr. M. Horn, selected.  
9.50: One-steps—Kapai Dance Band, (a) "My Cutie's Due"; (b) "Baby Face."  
10.0: Close down.

## Friday, November 11th

### 1YA AUCKLAND (333 METRES)—FRIDAY, NOVEMBER 11.

- 3 to 4.30 p.m.: Afternoon session—Selected studio items.  
6 to 7: Children's hour.  
7.15: News and reports.  
7.30 to 7.45: Talk on "Motoring," by Mr. Geo. Campbell.  
8.0: Chimes.  
8.1: Relay of overture from Prince Edward Theatre. Mr. Geo. Poore, conductor.

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