

Australian Programmes

Times Corrected for N.Z.

Thursday, November 27.

STATION 2FC.—10 p.m., "The Lilac Domino," an operetta in three acts.
2BL.—10 p.m.: A concert programme arranged by the Musical Association of New South Wales.

3LO.—10 p.m.: Dance items, interspersed with variety numbers.

3AR.—10 p.m.: Relay from 2FC, Sydney.

Friday, November 28.

STATION 2FC.—10 p.m. and 11.7 p.m.: "The Rhythmic Three." 10.17 and 10.41 p.m.: Saxophone novelties. 11.15 p.m.: Relay from 3LO, Melbourne, of a brass band recital.

2BL.—10.14 and 11.5: Classical piano solos. 10.7 p.m. and 11.15 p.m.: Baritone solos. 11.32 p.m.: Violin selections. 3LO.—10.45 p.m.: Programme by the "Victorian Singers," assisted by the studio orchestra.

3AR.—10.15 p.m.: Community singing transmitted from the Mechanics' Hall, Geelong.

Saturday, November 29.

STATION 2FC.—10 p.m.: From the Little Theatre the 2FC Follies of 1930.

2BL.—10 p.m. and 11.18 p.m.: Songs by the Welsh miner. 10.14 p.m. and 11.44 p.m.: Banjo solos. 10.30 p.m.: Description of boxing contest from the Sydney Stadium. 12.30 p.m.: Dance music.

3LO.—10.50 p.m.: Chamber music. 11.15 p.m.: A revue by "Hatherley's Hilarious Highspots."

3AR.—10.17 p.m. and 11.45 p.m.: Xylophone solos. 10.22 p.m. and 10.53 p.m.: Description of dirt-track motor-cycling events. 10.45 p.m. and 11.50 p.m.: Comedy numbers.

Sunday, November 30.

STATION 3LO.—10 p.m.: "Joseph and His Brethren," a dramatisation of the Biblical Story. 11.40 p.m.: "The

Sundowners' Quartet," with Wurlitzer organ solos.

3AR.—10.30 p.m.: Relay from 2BL, Sydney.

Monday, December 1.

STATION 2FC.—10 p.m.: Relay from the Ashfield Town Hall, community singing and band music.

3LO.—10 p.m.: A concert by the National Broadcasting Orchestra, assisted by leading artists.

3AR.—10.1 p.m.: "Dandy Dick," a three-act comedy.

Tuesday, December 2.

STATION 3LO.—10.6 p.m.: "Moonlight Music." 10.26 p.m.: "The Limit," a comedy. 11.15 p.m.: Military band concert.

3AR.—10.15 p.m.: Organ recital. 10.30 p.m.: Ballads and novelty numbers.

Wednesday, December 3.

STATION 3LO.—10 p.m.: A four-act studio presentation of "Uncle Tom's Cabin."

3AR.—10.1 p.m.: Organ recital and concert from St. Paul's Church, Bendigo.

Curing Microphonic Howl

CONSTRUCTORS are occasionally troubled by a howl which issues from the loudspeaker when the set is switched on, and which tends to build up until it completely drowns the broadcast programme. This is probably due to microphonic howl, which is caused by sound waves from the speaker impinging on the detector valve. The trouble can be overcome by wrapping a quantity of cotton-wool around the glass bulb of the detector, thus shielding it from the loudspeaker. The quantity required may be determined by experiment, and it can be easily attached to the bulb with thread.

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Questions and Answers France's Great Figure In Radio

W. A. (Nelson): Is the solution of Epsom salts as good as the sulphuric acid in the Daniels cell?

A: See reply to "Fivalue."

2. Is the gravity type of cell as good as the other?

A: It is not generally as satisfactory, for it is only a compromise. We have not, however, tried one against the other and would be very interested to hear from correspondents on this point.

3. My set draws just over a third of an amp. Would four cells be sufficient used directly from the charger?—Yes.

4. I have an 100 amp. hour battery. Will six cells keep it charged?

A: It depends on the drain. If you are using a third of an amp., yes.

5. If used as a battery direct, what is the method of testing for charge?—A voltmeter.

M. E. (Nelson): I have had the Daniels charger working three weeks, and find that some of the commercial zinc rods are eaten away.

A: As you are using a saturated solution of Epsom salts you will find if you water it down to half, it will stop your zincs being eaten away.

2. In a former letter I asked you if rain water was necessary, but you must have overlooked my question.

A: Sorry, your question was certainly overlooked. Pure rain water should be used, and this collected in an earthen vessel, placed out in the rain. Do not use tank water.

3. Must the bluestone be powdered?

A: No, just drop the crystals in the jar and pour the water on them.

4. Is the Epsom salts solution easier on the zincs than the sulphuric acid, and is mercury necessary with the former?

A: The Epsom salts is generally better as far as zinc consumption is concerned, and no matter what the electrolyte used the zincs are better amalgamated.

I ENCLOSE a sketch of the Daniel cell charger. Is it correct?

Answer: No. If you read the article again you will see that the sulphuric acid is placed inside the porous pot and the water added. The blue stone is placed in lumps outside the pots and the water poured on it. The zinc rod is the negative electrode, and placed inside the pot with the sulphuric acid solution. The copper strip is positive and is outside the porous pot in the bluestone solution.

LARGE multi-wire aerials are no better for broadcast reception than a well-insulated single wire of suitable dimensions.

Memorial to Branley

AMIENS, the birthplace of Branley, has recently acquired for its Museum a bust of that inventor, whom the French call the Father of Wireless.

Branley first studied medicine, but eventually dropped this to take his degree in Science and to study electricity, which fascinated him.

In 1894 he obtained a coveted position as Professor of Electricity at Sorbonne, and the following year he turned his attention toward resistance. Desirous of verifying the Ohm law, he spread some finely-powdered iron on a glass sheet and ascertained that it was almost an insulator. Whilst he was experimenting with maximum resistance he discovered the germ of a great invention; using a Runkhoff coil he found that when a spark flashed, his plate became a conductor.

A year later he found that Marconi, who at this time had been studying Hertz's theory in his garden at Bologna, in Italy, had, with the practical assistance given him by the English, discovered the coherer. When in 1899 Marconi, after his trials at Vintimille, found his invention of wireless telephony recognised by the English Post Office, he sent a message of courteous thanks to Branley for his admirable discovery which had permitted him to succeed with his own invention.

When the Post Office made its first transmission across the Atlantic, and whilst the "Carlo Alberto" was making a cruise in constant communication by the same means with Rome, the French Government ignored the invention of the great Frenchman, forcing him to give up his laboratory and resume a medical career long since abandoned. It was left to subsequent French inventors and enthusiasts, following in his path, to draw public attention to him.

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