

- 10.50: Soprano—Marie Tiffany, "Pale Moon" (Indian Love Song) (Logan).
 Foxtrot—Brunswick Orchestra, "Redskin" (4218).
 Waltz—Regent Club Orchestra, "Loneliness" (Pollack) (4206).
 11.0 : Close down.

Sunday, December 1

1YA, AUCKLAND (900 KILOCYCLES)—SUNDAY, DECEMBER 1.

- 3.0 : Afternoon session—selected studio items.
 4.0 : Literary selection by Announcer.
 4.8 : Studio items.
 4.30: Close down.
 6.0 : Children's session, conducted by Uncle Leo.
 6.55: Relay of service from Beresford Street Congregational Church:—
 Preacher: Rev. L. B. Fletcher. Choirmaster: Mr. William Gemmell.
 8.30 (approx): Relay from Auckland Town Hall of concert by the Auckland Municipal Band, under the conductorship of Mr. Christopher Smith.
 9.45 (approx): Close down.
 3.0 : Afternoon session—selected studio items.

2YA, WELLINGTON (720 KILOCYCLES)—SUNDAY, DECEMBER 1.

- 3 p.m.: Afternoon session, selected studio items.
 6.0 : Children's song service, conducted by Uncle George.
 7.0 : Relay of service from St. John's Presbyterian Church. Preacher, Rev. J. R. Blanchard, B.A.; organist and choirmaster, Mr. C. W. Kerry.
 8.15 (approx.): Studio concert by the Wellington Boys' Institute Military Band, under the conductorship of Mr. A. Iremonger, and assisting artists:
 Hymn—Band, "Como" (Mendelssohn).
 March—Band, "Brigade of Guards" (Hawkins).
 Mezzo-soprano, Miss Mavis Castle, "A Prayer to Our Lady" (Ford).
 Violin—Mischa Elman, "Kaleidoscope" ("Orientale"), (Cui), H.M.V.
 Baritone—Mr. S. E. Rodger, (a) "The Sweetest Flower that Blows" (Hawley); (b) "Easter Flowers" (Sanderson).
 Selection—Band, "Sanctuary of the Heart" (Ketelbey).
 Contralto—Miss Mona Castle, "Not Understood" (Houghton).
 Violin—Mischa Elman, "Souvenir" (Drdla), (H.M.V. DA1010).
 Overture—Band, "Morning, Noon and Night" (Arise, Suppe).
 Vocal duet—Misses Mavis and Mona Castle, "Arise, O Sun" (Day).
 Organ—G. T. Pattman, "Humoreske" (Dvorak), (Col. 02686).
 Mezzo-soprano—Miss Mavis Castle, "Pokarekare" (Hill).
 Serenade—Band, "Land o' Dreams" (Schumann).
 Waltz—Band, "Tesoro Mio" (Becucci).
 Baritone—Mr. S. E. Rodger, "Captain Mac" (Sanderson).
 Sextet—Galli-Curci, Homer, Gigli, De Luca, Pinza, and Bada, "Chi Mi Frena" (What restrains me), ("Lacina di Lammermoor"), (Donizetti), (H.M.V. DQ102).
 Fantasia—Band, "Knight Errant" (Trussell).
 Contralto—Miss Mona Castle, "Spring Morning" (Fraser-Simpson).
 Quartet—Galli-Curci, Gigli, De Luca, and Homer, "Bella Figlia Dell' Amore" ("Rigoletto"), (Verdi), (H.M.V. DQ102).
 Selection—Band, "Largo in G" (Handel).
 March—Band, "B.B. and C.F." (Ord Hume).
 Close down.

3YA, CHRISTCHURCH (980 KILOCYCLES)—SUNDAY, DECEMBER 1.

- 3.0 : Relay from Civic Theatre of a lecture on "Christian Science" by Hon. William E. Brown, C.S.B., of Los Angeles, California, Member of the Board of Lectureships of the Mother Church, the First Church of Christ Scientist, in Boston, Mass., U.S.A.
 4.0 (approx.): Gramophone recital from studio.
 5.30: Children's song service (Children of the Methodist Sunday Schools).
 6.15: Chimes from studio.
 6.30: Studio programme:
 Organ and trumpet—Paul Mania, (a) "Vision de Jeanne d'Arc" (Gounod), (b) "Hallelujah Chorus" ("Messiah"—Handel) (Parl. A4051).
 Berlin State Opera Orchestra, "Parsifal" (Wagner) (Parl. E10543).
 Bass-baritone—Peter Dawson, (a) "Bush Silence," (b) "Bush Night Song," (c) "Land of Who Knows Where" (Australian Bush Songs)—James) (H.M.V. C1428).
 London Flute Quartet—(a) "Melody" ("Rosamunde"—Schubert), (b) "Bees' Wedding" (Mendelssohn) (Parlophone A4023).
 7.0 : Relay of service from Durham Street Methodist Church (Preacher, Rev. W. T. Blight; Organist and Choirmaster, Mr. Ernest Firth, F.R.C.O.).
 8.15 (approx.): Rebroadcast of 4YA, Dunedin (relay from St. Kilda Band Rotunda of concert by the St. Kilda Band).

4YA, DUNEDIN (650 KILOCYCLES)—SUNDAY, DECEMBER 1.

- 3.0 : Town Hall Chimes.
 3.1 : Selected gramophone items.
 5.30: Children's song service, conducted by Big Brother Bill.

- 6.30: Relay of service from First Church—Preacher: Rev. Dr. Hunter. Organist: Dr. V. E. Galway.
 7.55: Weather report.
 8.5 : Relay from St. Kilda Band Rotunda of concert by the St. Kilda Band.
 9.15: Close down.

Topical Notes

THERE are a few New Zealanders who are still anxious to see radio-vision developed in this country. A prominent expert says:—"The difficulties of radiovision are tremendous, and we must be patient while the problems are being solved. These problems concern electrical and mechanical engineering and optical science. A new kind of photoelectrical cell has had to be developed and new instruments designed. Besides, static has proved more troublesome than in radio. Bearing these facts in mind, it is small wonder that the progress in radiovision has appeared slow. The engineers themselves are not certain what the future holds. However, in an address before a group of engineers at Pittsburgh recently, Mr. David Saranoff, executive vice-president of the Radio Corporation of America, described radiovision as a promising infant, but still too delicate for anything but laboratory experiment."

THE report in the Melbourne daily press that a Melbourne radio amateur overheard conversations on the trans-Atlantic phone is rather interesting in view of the fact that in the next few months a radio telephone service between Australia and Great Britain is to be inaugurated. The facts of the case are that the Marconi Co., and the Radio Corporation of America are at present conducting experiments with various systems of transmission on the short wave London-New York phone link. When the link is completed, the "single side-band" method of transmission will be used to defeat the ends of radio eavesdroppers. A similar system will be used on the Australian beam phone service.

MR. H. MARTIN (Temuka) writes:

"I wrote to you about a week ago telling you of a 'terrible frying noise' I was getting over the air. Last night I think I located the trouble, coming from the main power lines, Coleridge to the south. I was walking along the street, and on passing one of the poles my attention was attracted by a very familiar sizzling. I stopped for about five minutes and listened, then returned home immediately and turned on my set (8 p.m.) just to find it sizzling away in sympathy with the power lines. In about an hour's time when it was dark, I went back to the pole, and one of the insulators was indeed 'sparking' very well. I then went along to the next pole and found three insulators, all sparking merrily. Needless to say, I have written to our radio inspector, hoping that the information will be of some use, and the trouble will soon be rectified." In reply to Mr. Martin's complaint in last week's notes, "Switch" suggested a leakage over an insulator as a possible cause of the noise.

Type-setting by Wire

An Important Invention

A RECENT American invention is the "tele-typesetter," a machine which enables a single typist to operate thousands of linotype and intertype machines in distant cities. Speed has long been recognised as an important factor in the art of printing, and as the demand for the printed page increased, history shows a constant effort to decrease the time of the mechanical processes involved. The recent invention of the tele-typesetter has done much to attain this desired result, and, as an additional advantage, one operator is able to control type-setting machines all over the world.

An electric typewriter at the central news dispensing office perforates the tape, each group of perforations corresponding to a letter, numeral or symbol. The tape is led through the transmitting distributor and a series of dots corresponding to the holes in the tape are then sent over the wire in the same manner as code messages are transmitted.

At the receiver is a perforator which punches holes in a tape in exact duplication of those made in the transmitting tape, while an automatic printer types the message as it is being received. The perforated tape thus received is then passed through a device, which, by means of electrical impulses, translates the code into depressions on the keys of the type-setting machines.

The almost unlimited application of this time and labour-saving invention in all fields of printing and news-dispatching services is apparent. Experiments are now being carried out to perfect a similar apparatus which may be operated by radio. With the recent adaptation of radio-transmitted pictures to the newspaper industry, it would be quite reasonable to predict that the time is not far distant when every newspaper in the world, no matter how remote, will have its "radio-typesetter" and its picture receiver for the instantaneous reception from other countries of both current news and pictures of topical events.

Direction Finding

SO good are the results from wireless direction finders, that the International Conference for the Safety of Life at Sea, which was held in London recently, has backed them to the hilt. At the present time it is not compulsory to install direction-receiving apparatus in any ship, but the recommendations of this body are that every passenger ship of 5000 tons gross and upwards must be provided within the next two years with the approved direction-finding apparatus or radio compass. It seems probable that this wise and humane recommendation will soon become law in practically every country in the world.