

- 8.40: Contralto—Miss S. McCready, (a) "Three Fishers" (Hullah); (b) "Over the Meadow" (Carew); (c) "When the Rooks Fly Homeward" (Rowley).
- 8.50: Popular melody—Novelty Syncopators, "Sweeping the Clouds." Saxophone—Mr. J. McCaw, "Slap'in' Sax" (Craig). Waltz—Novelty Syncopators, "Jasmine" (Kussner).
- 9.0 : Weather report.
- 9.2 : Organ—Edward O'Henry, (a) "Chant Sans Paroles" (Tschalkowsky); (b) "Ca C'est Madrid" (O'Henry).
- Jesse Crawford, (a) "Diane" (Rapee-Pollack); (b) "Souvenirs."
- 9.14: Soprano—Miss Dorothy Dagg, (a) "The Life of a Rose" (Lehmann); (b) "The False Prophet" (Scott); (c) "The Cuckoo Clock."
- 9.24: Piano—Carroll Gibbons, (a) "Moonbeam Dance" (Gibbons); (b) "Body and Soul" (Green).
- 9.31: Tenor—Mr. J. B. Hamilton, (a) "I Heard You Singing" (Coates); (b) "Temple Bells" (Woodforde-Pinden); (c) "Kashmiri Love Song."
- 9.41: Saxophone—Mr. J. McCaw, "Nola" (Arndt). Waltz—Novelty Syncopators, (a) "Desert Rose" (Terese); Foxtrots, (b) "My Guitar and You" (Harris); (c) "Telling it to the Daisies."
- 9.56: Novelty vocal—Singing Sophomores, (a) "My Ohio Home" (Donaldson); (b) "Chloe" (Moret and Kahn).
- 10.0 : Dance session.
- Foxtrots—Abe Lyman and His California Orchestra, "Another Night." Meyer Davis's Hotel Astor Orchestra, "If I Had My Way." Abe Lyman and His California Orchestra, "I'm Only Making Believe" (Davis-Coots). Chic Scroggin and His Pla-mor Orchestra, "If I Could write a Song" (Fulcher).
- Waltz—Meyer Davis's Hotel Astor Orchestra, "There Must be Somebody Waiting for Me" (Donaldson).
- 10.15: Foxtrots—Jesse Crawford and His Orchestra, "The Prep Step." Irving Mills and His Hotsy Totsy Gang, "Manhattan Rag." Jesse Stafford and His Orchestra, "My Sweeter than Sweet." Vocal—Chester Gaylord, "Dance Away the Night" (Thompson-Stamper). Foxtrots—Irving Mills and His Hotsy Totsy Gang, "What King of a Man is You" (Carmichael). Tom Gerun and His Orchestra, "One Sweet Kiss." Jack Denny and His Mount Royal Hotel Orchestra, "The End of the Lonesome Road" (Ruby-Perkins).
- Waltzes—Abe Lyman and His California Orchestra, "If I'm Dreaming." "The Shepherd's Serenade" (Grey-Stothart).
- 10.42: Vocal—Chester Gaylord, "Just You, Just Me" (Klages-Greer). Foxtrots—Tom Gerun and His Orchestra, "Some Day Soon." Jack Denny and His Mount Royal Hotel Orchestra, "Scotchie." (White). Abe Lyman and His California Orchestra, "Sally" (Dubin-Burke); "If He Cared" (Grey-Stothart). Chic Scroggin and His Pla-mor Orchestra, "She Chills Me."
- 11.0 : God save the King.

Programme Features

(Continued from page 19.)

3YA Notes

THE Christchurch station will broadcast trotting results this afternoon.

The Salon Quartet of 3YA will be featured on the evening programmes. The members of the quartet—Miss Mary O'Connor, Miss Dulcie Mitchell, Mr. H. J. Francis and Mr. T. D. Williams—will be heard in concerted numbers and solos and duets, comprising classical and operatic numbers and popular ballads.

From Dunedin

SILENT day will not be observed this week. A bright and varied programme has been arranged.

FRIDAY

Auckland Features

A FURTHER relay of the Auckland Racing Club's meeting, interspersed with gramophone items, will take place.

During the programme from 1YA the Monte Carlo Orchestra, under the direction of Mr. F. K. Cunningham, will give several items. Mrs. Pearl Owen, mezzo-contralto, is singing the well-known ballads,

"Pale Moon" and "Cradle Song" by Kreisler.

Mr. Arthur Simpson, baritone, will also be heard. He has included among his items the novelty number entitled "The Bassoon." Vocal and instrumental numbers will be given by the Neiafu Duo, another popular combination at this station.

Wellington Notes

THIS evening's programme will be bright and varied. Circumstances permitting, a relay of a sound film feature showing at the Majestic Theatre will be carried out.

From 3YA

ITEMS to suit all tastes will be included in this evening's entertainment.

Dunedin Notes

An instrumental quintet which will play Kern's "Beauty Prize," "Bells of St. Mary," "Bits and Pieces," "Bronze Horse," "British Patrol," and a selection from Monckton's "Country Girl" will be featured this evening.

SATURDAY

From Auckland

THE 1YA Orchestral Octet, under the direction of Mr. Harold Baxter, will supply some interesting items,

including the suite, "Three Famous Pictures" by Wood. Miss Eileen Smithson, a very young singer, is making her first appearance at this station in a group of popular songs. This young lady possesses a very sweet voice and a definite interpretative ability.

2YA Notes

THE members of the Lyric Quartet will sing solos and duets and a group of sea chanties, and Mdlle. Pola Schea will present light ballads.

From Christchurch

THE Four Rascals will provide 40 minutes of 3YA's variety programme. Their items will comprise vocal and instrumental music, patter and humour. Mrs. Anita Ledsham, well known on the radio as Miss Anita Graham, will present the following mezzo-contralto solos: "Whistle and I'll come tae ye, ma lad," "We Sway along the Ridges," "The Sweetest Flower that Blows" and "Love, the Jester."

Dunedin Notes

FEATURED on this evening's programme will be the "Novelty Syncopators," who will present popular melodies.

KNOW the time all over the world with a

DX Clock.
9d. Each.



Watch Night
Service

will be Relayed
from

St. John's
Presbyterian
Church

by 2YA

New Year's Eve

The "Differential" One

(Continued from page 17.)

control is nicely adjusted, the local station may be tuned in, being careful to keep the reaction control well away from the oscillation point.

The valve used should preferably be of the H.F. or R.C. type (A.C. resistance of 20,000 to 30,000 ohms), and may be of any filament voltage. Nowadays two-volters are practically as efficient as four and six-volters, so they need not be avoided for fear of impairing the performance of the set. The B voltage to be applied to the plate of the detector valve is best ascertained by experiment as it varies somewhat with the valve employed. Some valves will be found to work really well with no more than 20 volts or so, while others are not at their best until 70 or 80 volts are applied. Generally speaking, though, a voltage of 40 to 60 will be found to give the best results.

The next article in this series will describe the addition of an audio stage to the receiver. In addition, the construction of short-wave coils and of those for the broadcast band only will be fully described.

Complete One-Valve Set.

THOSE who have no intention of increasing the number of valves and who want broadcast reception only should make certain adaptations in the set. Two photographs in this article illustrate the neat little receiver that can be made up. The base board measures 8in. x 6½in. with a 6in. panel. The placement of the components can be seen very clearly from the photographs. In explanation one point may be stressed, and that is that the battery cable wires do not run to terminals, but go directly to the proper points in the set: thus A— is connected with the switch, A+ and B— directly with the valve holder, and B+ is taken by a cable to speaker + terminal. As will be seen from the photographs, there are only four terminals on the back, one each for the aerial and earth, on the right-hand side, and two for the speaker on the left. One of these, of course, is connected with B+, as was mentioned above. The other connects directly with the top of the choke.

It will be noted that the choke is mounted horizontally. This is a splendid idea to keep the leads short. It will be found quite simple if a bracket is used.

The front panel needs possibly a little explanation. It will be noticed that there are three controls. In the centre is a tuning dial, a .00035 condenser, while to the right is a differential reaction condenser. Now, on the left is a rheostat, but it will be noticed also that there is an amperite used in the set. The rheostat has been placed in this position merely that those who have a rheostat on hand or wish to use one in preference to the amperite may have some idea of the layout. Of course, if a rheostat is used, the amperite is not used; that is to say, A— connects to one side of the rheostat, the other side of which connects with the switch. It will be remembered that the other terminal on the switch is connected directly to cable to A—.