

## 4YZ INVERCARGILL 680 k.c. 441 m.

11. 0 a.m. Sunday morning programme  
12.30-1.0 p.m. Daventry news  
2. 0 Alfredo Campoli and his Orchestra, with vocal interludes  
2.30 "Somewhere in France"  
3. 0 Symphonic poem: "Les Preludes" (Liszt), played by Philadelphia Orchestra  
3.16 Famous artists: Beniamino Gigli  
3.30-4.0 Medley time  
6.30 Relay of Evening Service from First Presbyterian Church  
Preacher: Rev. J. A. Thomson. Choirmaster: L. E. Dailey. Organist: Mrs. A. Manning  
7.45 Gleanings from far and wide  
8.10 "Night Nurse": Drama in a great hospital  
8.40 "New Zealand's Problems As I See Them"—Talk by the Prime Minister, the Rt. Hon. M. J. Savage  
9. 0 Daventry news  
9.30 "John Halifax, Gentleman"  
9.45 Slumber session  
10. 0 Close down

## 3ZR GREYMOUTH 940 k.c. 319 m.

12. 0-1.30 p.m. Variety programme  
12.30 Daventry news  
5.30 Sacred song service, conducted by the Salvation Army  
6.15 Daventry news  
6.30 Hits of to-day  
6.46 Carson Robinson and his Pioneers  
7. 0 Melodies of the Masters  
7.30 Jeannette MacDonald and Nelson Eddy, film favourites  
8. 0 Alfredo Campoli with his Orchestra, assisted by the Comedy Harmonists  
8.25 "Music at Your Fireside," featuring Donald Novis (tenor)  
8.40 Talk by the Prime Minister, the Rt. Hon. M. J. Savage  
9. 0 Daventry news  
9.20 "Khyber" (episode 11)  
9.43 Melodious memories  
10. 0 Close down

## 2YH NAPIER 760 k.c. 395 m.

11. 0 a.m. Selected recordings  
12.30-1.0 p.m. Daventry news  
2. 0 Afternoon concert session  
4. 0-4.15 Daventry news  
6.15 Daventry news  
6.30 Miscellaneous recordings  
7. 0 Relay of evening meeting from Gospel Hall, Napier  
Preacher: Mr. W. J. Barham. Organist: Miss Garratt. Choirmaster: Mr. Hughes  
8.15 (approx.) Selected recordings  
Station announcements  
8.30 Evening concert session: Vienna Philharmonic Orchestra, 1st Movement from Mozart's "Jupiter" Symphony  
8.40 Talk by the Rt. Hon. the Prime Minister: "New Zealand's Problems As I See Them"  
9. 0 Daventry news  
9.20 Light Symphony Orchestra, "Rondelet," "Mina" (Elgar)  
9.23 Lucrezia Bori (soprano), "Musetta's Waltz Song" from "La Boheme" (Puccini) "Malaga Love Lament," "Clavelitos"  
9.34 Cedric Sharpe (cello), "Melodie Arabe" (Glazounov), "Pavane" (Sharpe)  
9.40 The Basilica Choir  
9.50 Minneapolis Symphony Orchestra, "Hungarian Caprice" (Zador)  
10. 0 Close down

## 2YN NELSON 920 k.c. 327 m.

7. 0 p.m. Classical music: "Variations on a Theme by Haydn" (Brahms), played by New York Philharmonic Symphony Orchestra  
7.30 "Piece Heroique" (Cesar Franck), played by Edouard Connettable (organ)  
8. 0 Light opera  
8.30 Concert programme: Dresden Philharmonic Orchestra, "Euryanthe Overture" (Weber)  
8.40 Talk by the Rt. Hon. the Prime Minister  
9. 0 "Every Walk of Life—The Housemaid" (episode 1)  
9.12 Light classical music  
9.30 "Pinto Pete"  
10. 0 Close down

## 2YD WELLINGTON 990 k.c. 303 m.

7. 0 p.m. "I Hear America Singing"  
7.35 "Those We Love"  
8. 0 Tit-Bits  
8.45 "Mad and Dave"  
8.57 The Melodeers  
9.10 "The Wizard of Oz": A repeat presentation of the Metro-Goldwyn-Mayer film fantasy  
9.42 Strings  
10. 0 Close down

## 12M AUCKLAND 1250 k.c. 240 m.

10. 0 a.m. Sacred and orchestral selections  
11. 0 Concert session  
12. 0 Luncheon music  
2. 0 p.m. Selections from the shows and musical comedies  
3. 0 Piano, organ and piano accordion numbers  
4. 0 Miscellaneous items  
4.40 Melodies of Johann Strauss  
5. 0 Popular medleys  
5.30 Announcements  
5.40-6.0 Light orchestral  
7. 0 Orchestral programme  
8. 0 Concert session  
10. 0 Close down



MELODIES of Johann Strauss (above), will be featured from 12M on Sunday afternoon, February 18, at 4.40 p.m.

# THE GRAMOPHONE STAGES A COMEBACK

(BY RONALD McINTOSH)

BROADCASTING dealt the gramophone industry a blow that almost killed it. It was not human nature to continue getting out of a comfortable chair by a warm fire every four minutes to change the record when the radio announcer would do the same thing for you — and select the programme as well. The variety of records in the libraries of the broadcasting stations and the greater fidelity and range of the electrically-produced music made even the confirmed gramophone addict turn eventually from the harsher mechanical reproduction of his instrument.

For a while it looked as if the gramophone was as dead as the crinoline and the bustle. But the age of miracles is not past. The crinoline and the bustle live again, and now the gramophone, stripped of its former disadvantages, is making a determined bid for its former place in the entertainment world.

### Pocket Operas

The entire opera of Aida, for example, can be comfortably carried in a man's pocket in the new style of recordings, and the instrument will play for an hour or longer, in tones as dulcet and faithful as the wide-range radio set, without any attention from the operator.

There is no needle scratch in the new gramophone, for a beam of light is used in place of the needle. The name of the machine is the Cell-o-Phone, because it utilises the photo-electric cell, and its owes its invention to the principle employed in London's famous talking clock.

The instrument works in very much the same way as the sound-system of the talking film. When we speak or play music, waves or vibrations are set up in the atmosphere. These waves depend for the size and shape upon the nature of the original sounds, and radiate in all directions like expanding soap bubbles. When picked up by a microphone, these waves are translated into similarly varied waves or electric impulses, which are made to oscillate mirrors throwing light upon a sensitive moving film. Consequently the image of the light on the film makes a zig-zag track similar to that visible alongside the pictures in the modern film. The ribbons, which are wound on reels, are only a fifth of an inch wide.

### Reverse Process

The reproducing instrument simply reverses the process. The sound track film, with its varying black and white shapes, is unwound in front of a powerful lamp, so that the continually varying sound records pass through the track and play upon a sensitive photo-electric cell.

The light is translated by this cell into its original electric impulses, which are then amplified exactly as in the radio set, and radiated as sound waves from a loud-speaker.

The old gramophones will never be resurrected from the spare room by this invention, but if you dislike the trouble involved in playing the old gramophone, buy one of these new machines and play the records you want to hear.

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