programmes may be published on day of performance.

# Full Programmes for Next

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#### NOTES AND COMMENTS

(By "Switch.")

A BRUSSELS scientist considers that A inconsiders scientist considers that migratory birds are guided by the same electro-magnetic waves as are employed for broadcasting. This suggests a reason why the start of the B.B.C. winter programmes coincides with the flight of the birds from that country country.

AS soon as a joint has been soldered it should be wiped over with a clean duster in order to remove the liquified flux, which is otherwise liable to cause leakage.

FOUR violins, valued at £3000 each, were used recently in a musical art quartet, including Sascha Jacobsen, who broadcast from an American station. The violins are four Strads, purchased by Felix Warburg.

COMMUNICATION was established with fourteen amateur stations in six States from an aeroplane flying in Canada recently, as a result of tests planned by local radio experts. The greatest two-way distance covered was with two amateurs in Oakmont, Pa., 500 miles away. Communication was maintained for an hour and a half whilst the craft was in the air-

MR. LLOYD GEORGE and has daughter have given wireless sets to the North Wales Blind School at Rhyl, England.

The sound waves from a loudspeaker are not projected evenly. The higher notes go straight forward, while the lower notes tend to go off side-ways, and even round towards the back of the instrument. This is re-ferred to as "spilling." A good plan to eliminate this trouble is to place the speaker close to and facing away from a wall, so that some of those elusive low notes can be reflected again to the front.

A DEVICE that can be used as a phone, an amplifier, a telephone, a stethoscope, a hand microphone, a phonograph amplifier, a morse code practising device, a talking light, a submarine signaller, a detector, a grid leak, londspeaker transmission, and for hundreds of other useful and interesting experiments, is on sale in America priced at 4s, each. "Switch" has one of these little devices, which resembles a miniature carbon micro-

AMATEURS who build their own cabinets will find that an excellent stain for oak can be made by mixing Japan black and turpentine in equal quantities. The liquid should be applied with a rag to the well sandpapered surface, and with two or three coats a rich brown coat will be ob-

PERIODCAL Y you should run a rag soaked in kerosene up and down your aerial in order to remove the soot and dust, which make for poor reception. Whilst on the job, poor reception. Whilst on the joo, don't forget the insulators, which also Contrary to general collect dirt. Contrary to general supposition, it is not advisable to solder leads to your aerial, for unless t good connection is made without the use of the solder, the resistance of the latter win cause very poor re-

THE following Associated Press message was published in the United States dailies:—Algiers, March 17—North Africa has caught the radio craze, and Arab chiefs are saying fare-well to their steeds in exchange for the latest seven-tube sets guaranteed to get all Europe. Barcelona, Spain, is very loud in this part of the world, and Milan, Italy, also is clear. The most appreciated station, however, is London when American jazz is trans-

AMERICAN aniateurs form district clubs and name them in various manners. A few of them are: "Browsville Racket Raisers," "I Tappa Key," "Busted Valve Club," etc. The "Rag Chewers' Club" is also well known and a branch has been formed in Australia.

ABOUT 98 per cent, of the telegrams received in the United States from Sweden are being dispatched by radio. It is the policy of the Swedish Telegraph Board to use radio for the transmission of messages in all cases where there is no telephone or other table directly available. The new table directly available. The new Swedish Government radio station has provided increased speed and efficiency in transmitting messages and has made possible a reduction in rates, the United States Department of Com-

A WELI-KNOWN valve firm, advertising in "The Wireless World" (a British periodical), claims that the filaments of their valves are strong enough to hang pictures on and are long enough to dry the week's washing.

DISTORTION due to high frequency currents getting in on the low frequency side of a receiver may be prevented by the insertion of a high resistance, in series with the grids

of audio frequency valves. BUS-WIRE is easily soldered owing to the fact that it is already inned.

## Sunday, April 29

1YA AUCKLAND (333 METRES)—SUNDAY, APRIL 29.

3 p.m.: Afternoon session-Selected gramophone items,

4.0: Literary selection by the Announcer.

48: Further gramophone items.

4.30: Close down.

6.0: Children's service, conducted by Rev. L. B. Busfield,
6.55: Relay of evening service from St. David's Church. Preacher, Rev. D.
C. Herron. Organist, Mr. E. C. Craston.

8.30: Relay of band recital by the Municipal Band, under the direction of Mr. Christopher Smith. 9.30: God Save the King.

2YA WELLINGTON (420 METRES)—SUNDAY, APRIL 29.

6 p.m.: Children's service, conducted by Uncle Ernest.
6.55: Relay of evening service from Taranaki Street Methodist Church.
Preacher: Rev. Clarence Eaton. Organist and choirmaster, Mr.

H. Temple White. 8.15: Relay of Port Nicholson Silver Band concert from the Grand Opera House, Wellington.

3YA CHRISTCHURCH (306 METRES)—SUNDAY, APRIL 29.

5.30 p.m.: Children's song service, by Uncle Sam.
7.0: Relay of evening service from Salvation Army Citadel, Victoria Square.
Speaker, Ensign Allan Montgomery.
8.15: Rebroadcast of 2YA, Wellington (relay of Port Nicholson Band from

Grand Opera House).

4YA DUNEDIN (463 METRES)—SUNDAY, APRIL 29.

5.30 p.m.: Children's song service.
6.30: Relay of service from the Methodist Central Mission.

W. Walker. Organist, Mr. Chas. A. Martin.

8.0: Band concert. 9.15: God Save the King.

Monday, April 30

1YA AUCKLAND (333 METRES)-MONDAY, APRIL 30.

SILENT DAY.

2YA WELLINGTON (420 METRES)-MONDAY, APRIL 30.

3 p.m.: Chimes of the General Post Office clock, Wellington.

3.1: Selected gramophone items.

Close down.

5.0: Close down.
6.0: Children's hour—Uncles Toby and Jeff, and Thorndon Normal School, Standard V. Two-part song, Norman School, "Shepherd's Evening Song" (Theman). Rounds, Thorndon Normal School, (a) "A Southerly Wind," (b) "Glide Along" (Theman). Sea chanties, (a) "Windlass Song" (Rowley), (b) "Rio Grande" (arr. Sharp). Recitation, cousin, "The Arrow and the Song" (Longfellow). Song, Norman School, "One Man Went to Mow" (Chambers). Recitation, cousin, "Block City" (Stevenson). Song with descant, Normal School, "Derry Vale" (Shaw). Birthday greetings and story.
7.0: News session, market reports, and sports results.
7.40: Lecturette—Rev. J. R. Blanchard, B.A., "Watering an Australian Desert."

Desert."

8.0: Chimes of the General Post Office clock, Wellington.

### A LIEDER EVENING.

8.1: Overture-"Rosamund" (Schubert).

8.1: Overture—"Rosamund" (Schubert).
8.5: Mezzo-contralto solos—Miss Ngaire Coster, (a) "Lullaby" (Brahms); (b) "Hedge Roses" (Schubert).
8.10: Saxophone solos—Mr. A. H. Wright, "Melody in F" (Rubenstein); (b) "Traumere I" (Schumann).
8.15: Tenor solo—Mr. Roy Hill, "Adelaide" (Beethoven).
8.20: Instrumental trio—Symons-Ellwood-Short Trio, "First Movement Trio in D Minor" (Schumann).
8.30: Bass solos—Mr. J. M. Caldwell, (a) "The Organ Grinder" (Schubert); (b) "I Will Not Grieve" (Schumann).
8.36: Flute solo—Mr. L. W. Rothwell, "Ave Maria" (Schubert-Liszt).
8.41: Vocal quartet, with piano duet accompaniment—The Ariel Singers, "Ohl Give An Answer, Maiden Fairest" from "Liebeslieder" (Brahms).
8.45: Violin and piano duet—Miss Ava Symons and Mr. Gordon Short, "First and Second Movements of Sonata for Violin and Piano" (Caesar and Second Movements of Sonata for Violin and Piano" (Caesar -Franck).

8.55: Soprano solo—Miss Jeanette Briggs, "Solveig's Song" (Grieg). 8.59: Elocution—Mr. Stanley Warwick, "My Motor-car" (Sellars). 9.4: Cornet solo—Mr. H. J. Dutton, "The Minstrel Boy" (Round).

Weather report and forecast. 9.10: Mezzo-contralto solo-Miss Ngaire Coster, (a) "I Love Thee" (Grieg); (b) "Secrecy" (Wolf).
9.16: Saxophone solo-Mr. A. H. Wright, "Valse Vanitie" (Wiedoeft).



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9.21: Tenor solos—Mr. Roy Hill, (a) "The Wanderer's Song" (Schumann);
(b) "More Sweet and Pure and Holy" (Schumann); (c) "Her Voice" (Schumann).
9.29: Instrumental trio—Symons-Ellwood-Short Trio, "Third and Fourth Movements" (Schubert).

Movements" (Schubert).

9.39: Soprano solos—Miss Jeanette Briggs, (a) "Lay Thy Check Against Mine Own" (Jensen); (b) "How Still the Grove" (Franz); (c) "Love Finds Out the Way" (Raff).

9.48: Cornet solo—Mr. H. J. Dutton, "A Perfect Day" (Jacobs-Bond).

9.53: Elocution—Mr. Stanley Warwick, "Mr. Tigg meets Mr. Pinch" (Dickens).

9.58: Flu'e solo—Mr. L. W. Rothwell, "Serenade" (Schubert-Liszt).

10.3: Vocal quartet, with piano duet accompaniment—Ariel Singers, "How Soft, You Murmuring Stream" from "Liebeslieder" (Brahms).

God Save the King.

#### 3YA CHRISTCHURCH (306 METRES)-MONDAY, APRIL 30.

3 p.m.: Afternoon concert session-Selected studio items.

4.25: Sports results.

6.0: Children's hour-Uncle Jack and Aunt Edna.

7.15: News session.

Relay of orchestral selections from Strand Picture Theatre Orchestra, under the direction of Mr. Harry Ellwood.

Studio concert by Christchurch Municipal Band, under the conductorship of Mr. A. J. Schnack, assisted by the Beckenham Male Quartet and Mr. Jack Darragh.

8.15: Male voice quartet-Beckenham Male Quartet, "Nursery Rhyme Medley"

8.15: Male voice quartet—Beckenham Male Quartet, "Nursery Rhyme Mediey"
(Gracey).
8.19: March—The Band, "B.B." (Horne).
8.27: Tenor solo—Mr. E. R. Pitman, "The Rest of the Day's Your Own"
(David and Long).
8.31: Selection—The Band, "Melodious Gems" (Rimmer).
8.43: Male voice quartet—Beckenham Male Quartet, "Lullaby" (Brahms).
8.47: Soprano solo—Mrs. Leslie Scrimshaw, "Golden Dancing Days" (Clarke).
8.51: Hymn—the Band, "Bradford" (Owen).
8.56: Humorous song—Mr. Jack Darragh, "When Tosti Raised His Bowler Hat."

9.0: Weather report and forecast.
9.1: Relay of orchestral selections from Strand Theatre.

9.10: Tenor and baritone duet—Messrs. E. R. Pi'man and K. G. Archer, "The Skippers of St. Ives" (Roeckel).

9.14: Selection—The Band, "Patience" (Champion).

9.24: Male voice quartet—Beckenham Male Quartet, "Old Farmer Buck" (arr. Williams).

Williams).

9.28: Characteristic reverie—The Band, "Sliding Jim" (Losey).

9.36: Soprano solos—Mrs. Leslie Scrimshaw, (a) "Solveig's Song" (Grieg);

(b) "Chanson de Florian" (Godard).

9.39: March—The Band, "Rauparaha" (Lyons).

9.44: Male voice quartet—Beckenham Male Quartet, "Amazon" (Etinge).

9.51: Humorous recitation—Mr. Jack Darragh, "Guy de Vere Attempts a

Toast."

9.54: Humorous chorus—Beckenham Male Quartet, "Topical Chorus." 9.58: March—The Band, "The Voice of the Guns" (Alford).

God Save the King.

4YA DUNE7DIN (463 METRES)-MONDAY, APRIL 30.

SILENT DAY.

## Tuesday, May 1

1YA AUCKLAND (333 METRES)-TUESDAY, MAY 1.

3 p.m.: Afternoon session-Selected studio items. 4.0: Literary selection by the Announcer-

Further gramophone items.

4.30: Close down. tion, Edna Rainey, "C "Coronach" (Barrett). Bedtime stories.

7.15: News and market reports.

Chimes.

8.1: Relay of overture from Majestic New Orchestra, under Mr. Whiteford-Waugh. 8.5: Soprano solo-Mrs. J. Parry, "Waltz Song" from "Tom Jones" (Ger-

man).
Baritone solo—Mr. Trevor Lewis, "I Pitch My Lonely Caravan" (Coates).
Contratto solo—Madame Irene Ainsley, "Il Segreto" from "Lucrezi Bor-

gia" (Donizetti). 8.18: Instrumental trio-Bosworth-Hemus-Towsey Trio, "Trio in C Minor,

First Movement" (Mendelssohn).

8.27: Baritone solo—Mr. T. Lewis, "O, That We Two Were Maying" (Nevin).

8.31: Relay of entracte from Majestic New Orchestra, under Mr. Whiteford-Waugh.

8.39: Soprano solo—Miss Beryl Adams, "The Pipes of Pan" (Monckton).
8.43: Violin solo—Miss Ina Bosworth, "Variations" (Tartini-Kreisler).
8.48: Lecturette—Mr. A. B. Chappell, M.A., "Talks on Old New Zealand: No.
7, The Cradle of Civilisation."
9.0: Weather report and forecast.
9.1: Instrumental trian Responsib Heavier Terrian (Control of Panel Control of Panel of Panel

9.1: Instrumental trio-Bosworth-Hemus-Towsey Trio, "Second Valse" (Godard). 9.11: A presentation of the principal numbers from "Orpheus," by Gluck,

under the direction of Madame Irene Ainsley. The part of Orpheus is sung wherever possible by a contralto—at its first presentation in London in 1860 the Ravogli Sisters were in the

principal roles. It is considered one of the greatest masterpieces of the human mind. The story is based upon the Greek legend. Orpheus, son of Apollo, was celebrated for his beauty and his musical powers, and on the death of his beloved wife Euridice, he is visited by the God of Love, Amor, who, taking pity on the mourner, tells him he may descend into Hades and seek Euridice in Pluto's kingdom, but he must not look upon her until they have again reached the upper world. Orpheus gladly goes upon his quest—he wins his way through the nether world to the Valley of the Blest by the charm of his singing, and there he finds Euridice. She follows him through the Valley, but grows sad at his seeming indifference, for, true to his promise, he has never looked upon her face. Almost in sight of the upper world her supplications weaken his resolve, and in defiance of the Gods he turns and gazes her face. upon her. She sinks lifeless to the ground, and Orpheus is about to kill himself in despair, when the God of Love, Amor, returns, and, moved by his renewed sufferings, not only restores Euridice to life, but immortalises him.

> Orpheus (contralto)-Madame Irene Ainsley. Amor (soprano)-Miss Beryl Evans-



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