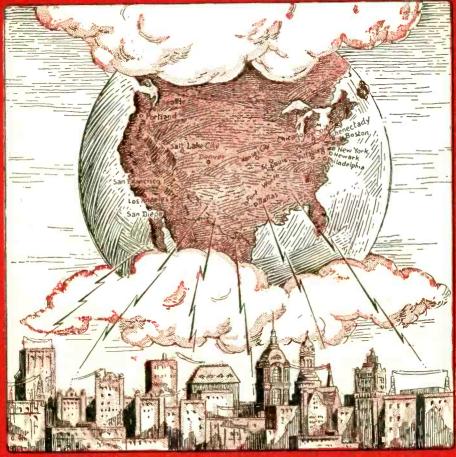
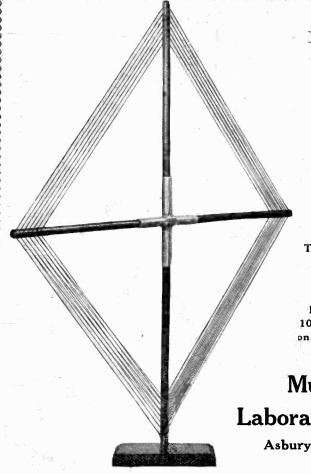
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(Entered as second-class matter, November 25, 1922, Los Angeles, California, Post Office, Under Act of March 3, 1879)

Official Program of Allied Musical Interests and Civic and Professional Interests Supporting Radio Central Station of Earle C. Anthony, Los Angeles

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Vol. II

Los Angeles, May 26, 1923

No. 21

One of the things that most forcefully impresses us every now and then is the fact that there are many debatable questions connected with radio.

Last week, for instance, we printed an article on Interference that took a definite stand against the single circuit. This has brought a number of letters from the defenders of the single circuit, and in next week's issue we shall publish an article giving their side of the case.

It is fitting in this connection to say something regarding our editorial policy. In the first place, our columns are open to all of our readers to discuss and debate any phase of radio that is of general interest. Our own attitude is one of open-mindedness. If at any time a reader disagrees with an article that we have published, let him write us his side of the case and from the discussion everyone will be the gainer.

We might also add that we are always on the watch for interesting articles. If you have had an unusual experience, if you have worked out a new circuit, if you have made a set that does the unexpected, tell us about it, for if it was interesting to you the chances are that it will be interesting to others.

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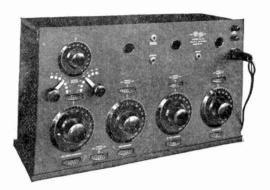
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Address.

6-8 A. M. PACIFIC TIME

RADIO TIME TABLE

7- 9 Mountain Time 8-10 Central Time 9-11 Eastern Time

		211					M	ON			TU	ES.			WE	D.		1	Ή	JR.			FRI		T	5	AT			sı	JN.	
STATION	METERS	CITY		CA	LL	9-00	8	00- 7	30-8	9-00	30- 7.	00- 7	30-8	9 -00	30- 7.	00- 7.	30-8.	00- 6.	30- 7.	9 2	30-8	9 6	- 6	20 00		9 6	2 6	30-8	6.00-6.30	30- 7	00- 7	30-8
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8-10 A. M. PACIFIC TIME

RADIO TIME TABLE

9-11 Mountain Time 10-12 Central Time 11- 1 Eastern Time

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STATION	METERS	CITY		CAL	L	8 -00	30-9	00- 9	30-10	90-8	30-9	00- 9	30-10	00-8	30-9	6-0	30-10	90-8	8-8	. 15	30- 8	00- 8	30-10	90-8	30-9	.00- 9.	30-1	.00-8	8.30- 9.00	.00-9.	9.30-10.00
S. F. Examiner Reynolds Radio Co Star-Telegram News and Journal Palmer School John Wanamaker	475 475 484	Fort Worth	W W W	L Z B A	P	ċ	B	C	Α	ċ	ВВ	000 0	Α	Ċ	В	ć	Α	Ċ	B	CCC C	 C E	. 0		Ċ	B	C				C	A

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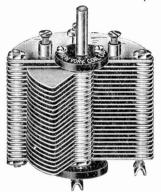
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Third Floor Los Angeles

Come or write today

Mail Orders Filled Promptly

Open Every Evening Till 9 P. M.



10-12 A. M. PACIFIC TIME

RADIO TIME TABLE

11- 1 Mountain Time 12- 2 Central Time 1- 3 Eastern Time

				MC	N.	1	ΤL	JES			WE	D.		тн	UR	.		FR	ı.			SA	T.	Ì		SU	N.
W HE MOITATS	CITY	CALL	10.00-10.30	10.30-11.00	11.00-11.30	10 00-10-00	10.30-11.00	11.00-11.30	11.30-12.00	10.00-10.30	10.30-11.00		.00-10	10.30-11.00	11.00-11.30	30-12.	00-10	30-11	11.00-11.30	30-12.	.00-10	10.30-11.00	111.00-11.30	11.30-12.00	1 10,00-10.30	10.30-11.00	111.00-11.30
L. A. Union Stk. Yds. Bible Institute. L. A. Times. 395 Earl C. Anthony 469 City Dye Works.	64	K J S K H J K F I			À	Ā	C			C	-		C				C :			•	C A	A			A B	B A	A
Hale Brothers	Oakland.	K P O K L X K L S K J Q				A			Ā			A				A	•		:	Ā				Α.	Á	Á	B
Guy Greason Rhodes Co. First Presby, Church. Meler & Frank	Seattle	K D 7 F	A :	A			A A			A .	A			Α .			A	A			A	A	À	Á		-	À
Reynolds Radio Co	Dallas	K L Z W F A A W O C	В	В	C		В	C		В	D.	C	8	B	C		B	В	C		В	B					

The numerals next to name of station indicate the wave length. Where no number appears, the wave length is 360. X indicates that the station is "on the air."

Lots of TUBES

UV 199\$	6.50
UV 201-A	6.50
WD 11	6.50
WD 12	6.50
UV 200	5.00
C 300	5.00
C 301-A	6.50
216-A	12.00

Adapters and Sockets for UV-199 Tubes

Dealers!
Attractive Discounts
Immediate Deliveries



12-2 P. M. PACIFIC TIME

RADIO TIME TABLE

1- 3 Mountain Time

2- 4 Central Time 3- 5 Eastern Time

			T	MOI	N.	T	TU	ES.	Ī	w	ED.		1	ГНІ	JR.			FR	I.			SA	T.			su	N.
W HE MOITATS	CITY	CALL	12.00-12.30	12.30- 1.00	1.30- 2.00	12.00-12.30	12.30- 1.00	1.00- 1.30		12.30-12.30	1.00- 1.30	1.30- 2.00	12.00-12.30	12.30- 1.00	1.00- 1.30	1.30- 2.00	12.00-12.30	12.30- 1.00	1.00- 1.30	1.30- 2.00	00-12	8 -	ģ	8 2.	00-12	30- 1	1.30- 2.00
CITY DYE WORKS. BIBLE INSTITUTE. L. A. Union Stk. Yds L. A. TIMES 395 L. A. EXAMINER.	4	K J S K F C L K H J	A Ċ	B	ć	Ċ	B	: 6		A .			A C	B	ć		A Ċ	B	ć		A Ċ	B	· · / c		Á	Á	
WARNER BROS 423 L. J. Meyberg	1 4	lk p o	A	A	B A A	A	A	B	À	A A		Á	A :	A	B	Α	A	A :	B	Á	Α .	A .	B A	Á	ß	A	
Herroid Lab'y	San Jose	K O W			A A	:	:	A .	A		A	Α.			Α.	A		-	Α.	A	:	-	Α .	Ā	-	:	ÄÄ
Guy Greason	Tacoma	K F E J K D Z E	A	A		A	A		-	A A		-		-	-		A	A	Á	-	A	A	-	-	- :	-	
Reynolds Radio Co. STAR-TELEGRAM. 475 NEWS AND JOUR. PALMER SCHOOL 480 Star. 411 News Detroit. 580	Dallas	W F A A W O C W D A F	В		C B	В	X		B B B X	B .	A C ·	B B B X	l il	x	A C ·	B B R X			- 1	B B X	B		- 1	B B R X		B	В

The numerals next to name of station indicate the wave length. Where no number appears, the wave length is 360. X indicates that the station is "on the air."

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Factory Representatives

B. KRUGER & COMPANY

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Los Angeles, California

2-4 P. M. PACIFIC TIME

RADIO TIME TABLE

3- 5 Mountain Time 4- 6 Central Time 5- 7 Eastern Time

							M) N			ΤU	ES.			WE	D.		1	ГН	UR.			F	RI.			SA	λT.			su	N.	_
STATION E	CITY		C/	ALL		αi	2.30-3.00	00-3	4.	ģ	30-3	00-3		2.00-2.30	30-	3 00- 3.30	8	ô	ဗ္ဗ	형		ė	ģ		슳	ś	င္က	6	30-4		30- 3		3.30- 4.00
CITY DYE WORKS El, Light, Sup. Co	Los Angeles Los Angeles	K K	U N	S		A	A		<u> </u>	Á	À				- -		-	Α	A	Á	Á	Α	A	·						_	_		_
S. F. Examiner	San Francisco Oakland	K K		0 X			A	Α .	Á		A	A	À		A	Α .	Á	·	A	Α.	À	- -	A	A	Á		A	Α .	À	Α	Α	Α	A
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Palmer School 484 Daily News-Fair 448 Star 475 Free Press 517 News 580	Kansas City Detroit	8888	OMDCW	A C A A X J A	P Q F	BB	ĺ	X	B X	ВВ	A B	x	B	B B	A B	: X	X	B	À	X	B X X	B B	Á	: x	B	B B	В	X	B	B B	B		:

Announcement to Radio Retailers!

We courteously desire to inform you that the GLOBE ACCESSORIES COMPANY is offering for sale a quality line of Radio Merchandise.

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OUR NEW AND COMPLETE PRICE LIST

4-6 P. M. PACIFIC TIME

RADIO TIME TABLE

5- 7 Mountain Time 6- 8 Central Time 7- 9 Eastern Time

			MON	. 1	Т	UES		W	/ED.		Т	ни	R.		FF	— ≀I.	1	_	SA	т.	Ī	;	SUI	N.	2
METERS MOITATS	CITY	CALL	4.00- 4.30 4.30- 5.00 5.00- 5.30	မ္က	4.00-4.30	5.00- 5.30	5.30- 6.00	4.00-4.30	5.00- 5.30	5.30- 6.00	4.00- 4.30	8 30- 5 00 F 00- 5 30	5.30- 6.00	4.00-4.30	1 4.30- 5.00	5.00-5.30	5.30- 6.00	4.00- 4.30	4.30-5.00	5.00-5.30	5.30- 6.00	4.00- 4.30	4.30-5.00	5.00-5.30	0.30-0.00 I
S. F. Examiner	San Francisco Oakland San Francisco	K F C L K F I K U S Herald Examiner K P O K L X K D N K U O K R E	C	A	A		A	A	. A B B //	A A .	Α		A A	A	B A	A . B . / / .	À	C	В А	A .B .//	Α	B	B		
Gould	Stockton Stockton Fresno Santa Ana	K W G K J Q K M J K F A W	A A		A A	A .	Ā	A	A	-	À	Α .	A A	A	A	Á	Ä	A	A :	Ā	A		•	À	À
First Presby, Church	Seattle Seattle Tacoma Tacoma Portland	K F C B K T W K J R K G B K F E J K F E C K G G	A A A	Ä	Ā		ÁÁ	· ·	. A	Á	·	À	À /	Ā	A	A	A A A	· · · · · · · · · · · · · · · · · · ·	- A -	- A	. A . A	A :	A	À	A
Daily News-Fair. 448 Westinghouse. 337 Kaufman & Baer. 326 Free Press. 517 Western Elect. Co. 492 News. 517 Star. 415 Tribune. 492 Am. Tel. & Tel. 501 Genl. Elect. 382 Bamberger. 405	i Dallas San Antonio. Davenport Ghicago 'Springfield, Mass Pittsburgh 'Detroit ! New York Detroit Kansas City Great Falls. New York Schenectady	W O A I W O C W M A Q W B Z W C A E W C X F W D A F K D Y S W B A Y	B B B B B B B B B B B B B B B B B B B	B B B B B B X X X X X X	В	B . B . B	BBB	B	B . B . B . B . B . B . B . B . B . B .	. B B B	B	B	B B B	3	. .	B A B B	B B B B X X X	В	B	B	BBB	BA	BBAB		B

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Los Angeles, California, U. S. A.

6-8 P. M. PACIFIC TIME

RADIO TIME TABLE

7- 9 Mountain Time 8-10 Central Time 9-11 Eastern Time

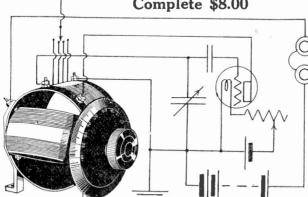
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Fallon & Co. Radio Den. Dr. R. O. Shelton Southern Eloc. Co Dr. W. K. Azbill.	Modesto Hanford Santa Barbara Santa Ana San Diego San Diego San Diego	K F A W K F F A K D P T K F B C	A / A A A A A A	A .	A	A . A		A	A		A	AA AA .	A A		A A	/A · / · A · · ·	Á		A	A / A · ·	A .		A .	Ā	À
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Love Electric Co. Mullens Electric. Northwest Radio. Excelsior Motorcycle. Rhodes Co. First Presby. Church. State Coll. of Wash.	Seattle		AA	Å Å		A	A	Α /	A	A				À	A .	A	Ä	A	A .	A	Α	A			-
Stubbs Elec. Co. OREGONIAN 49: Hallock & Watson Meier & Frank Adler's Music Store. Boise High S. Auto Supply Co.	Portland " " " " Baker, Ore Boise, Ida Wallace, Ida.	K Q Y K G W K F E C K F D A K F A U K F C C	A A	ÄÄÄ		A C	AAAA	-	A .	ÀÀ		C	A	. A A A	A	A	B	A	A	Ċ	A	A A A A	B	B	B
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STAR-TELEGRAM. 47 NEWS AND JOUR. 47 PALMER SCHOOL 48 DAILY NEWS-FAIR. 44 Post Dispatch. 54 Westinghouse. 44 Strawbridge & Clothler 39 Gen'l Electric Co. 38 Sweeney School. 41 John Wanamakers. 50 Bamberger & Co. 49 Star. 41 Tribune. 40 Radio Corp. 40 Radio Corp. 45 Radio Corp. 45 Redio Corp. 45	5 Dalias 4 Davenport 8 Chicago 4 St. Louis 8 Chicago 5 Philadelphia 10 Kansas City 9 Philadelphia 2 Newark 1 Kansas City Great Falls 5 New York 5 New York 5 Richmond, N. Y. Detroit	W O C W M A D K S V W E I Y W H B W O O W O R W D A F K D Y	B	B B B A X X X X	BB	6	A A	B B B P P E	B & B & C ())	B B	B B B	8	X	B A · · · B	BB B PF X	B 8	B	B	B B B	BB	B	В	В		x

The numerals next to name of station indicate the wave length. Where no number appears, the wave length is 360. X indicates that the station is "on the air."

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Saves Labor and Panel Space of drilling tap switch holes

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This is simplest form of single tube regenerative hookup. Gives effective, efficient results of better than 500 to 1.000 miles.

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A Limited Number of the Walpole



crometer Condense

imber of the Walpole

of a Thousand Graduations"
one knob that can be obtained with er
is causing poor reception you should try the WALPOLE MICROMETER

Sent C. O. D. with Back Guarantee

o W. H. Estes

Alhambra, Calif. "The Condenser of a Thousand Graduations" finer adjustment with one knob that can be obtained with any Vernier Condenser

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and a sure of the contract of

917 Dos Robles Place

5. - 1/5

8-10 P. M. PACIFIC TIME

RADIO TIME TABLE

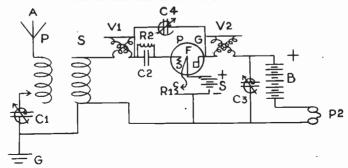
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The numerals next to name of station indicate the wave length. Where no number appears, the wave length is 360. X indicates that the station is "on the air."

One of the Most Desirable Radio Circuits

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Some New Amateur Regulations

The Second National Radio Conference recommended that there be no amateur transmission between the hours of 7:30 and 10:30 p. m., but, due to the fact that the Pacific Plan does not expire until October, Colonel Dillon, the Supervisor of Radio of the Sixth District, is agreeable to the idea that the present Pacific Plan be continued until that date or until further notice. The order was issued by Secretary Hoover, but its local application has been left to the Radio Supervisor.

Special stations, meaning Z stations, are permitted to use 220 meters, DCCW. Six Z stations in the Sixth District will be permitted to have a wavelength of 275 meters, in order to work over natural barriers, which means inter-

ference from other receiving sets on lower wave-lengths.

The difference in wave-lengths of the broadcast stations will be ten kilocycles, giving the Class B stations 45 or 50 wave-lengths on which to work. All transmitters, including the sparks, are permitted to use the band between 150 and 175 meters.

A special amateur operator's license is to be used, probably soon, which will permit the operation of special stations with this license, the new license being higher than amateur's first grade. A code speed of 15 words per minute is required and an examination on the regular amateur's transmitters and receivers must be taken. Storage batteries will be included in the test.

The Supervisor of Radio now has the power to revoke licenses without the official sanction of the Secretary of Commerce. This gives the Supervisor more

direct control over his district.

Amateur transmitters will not be permitted to vary one meter over or under the band of wave-lengths previously mentioned. It was also stated by Colonel Dillon that as soon as another international radio convention is possible spark transmitters may be discontinued or abolished. This will probably take two or three years of education, providing the price of vacuum tubes can be brought down to the point where they will be commercially possible for use on shipboard as well as by amateurs.

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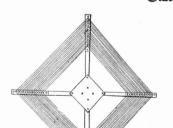
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Los Angeles, California

KHJ-Los Angeles Times-395 Meters

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SUNDAY-

10:00 a.m. Program arranged by INES BRICENO. Speaker to be supplied by BISHOP JOHN J. CANTWELL.

8:00 p.m. BEAR LAKE CHAMBER OF COMMERCE will present program "Around a Camp Fire," featuring BURKMAN BROTHERS, Hawaiian Quartet; GLADYS BLACK-WELL PICKERING, Soprano; SAMUEL S. HINES, Monologist; NORVAL MacGREGOR, Noted Shakespearean Actor, and REX B. GOODCEL, from Internal Revenue Office, San Boundains. Rernardino

MONDAY-

12:30 to 1:15 p.m. G. W. LINDSAY, Baritone, artist pupil of F. X. ARENS. News items. Music.

6:45 to 7:00 p.m. 8:00 to 10:00 p.m. Silent. Silent.

TUESDAY-

12:30 to 1:15 p.m. 6:45 to 7:30 p.m. INGSTON, Reader. News Items. Music.
MABEL CUSHMAN HARDISON, Soprano,, EMERSON FROME LIV-

8:00 to 10:00 p. m. Program arranged by M. THERESA BESSLER of Whittier, "The Junior Cabaret" featuring RHENA PETTERIN, Vocalist and Accompanist; JACK KIBLER, Cornetist; BUCK DODSON, Clarinet and Saxophone, HOWARD GILLETTE, Xylophone, WALTER WOOD, Banjo; GORDON BERGER, Baritone, and THERESA BESSLER, Violinist and Director.

WEDNESDAY-

EDNESDAT—
12:30 to 1:15 p.m. News Items. Music.
6:45 to 7:30 p.m. BIANCA BLACKBURN, Reader, 4 years of age; MARCIA CRENSHAW, Pianist and Violinist, 9 years of age; GRACE CRENSHAW, Violinist and Pianist,
11 years of age, pupils of MAE MacDONALD HOPE and CALMON LUBOVISKI.
8:00 to 10:00 p.m. Memorial Program, "Peace," arranged by HARRIET E. CHUBBIC.

THURSDAY-

2:30 to 1:15 p.m. News Items. Music. 6:45 to 7:30 p.m. PAULINE BOLT, Reader, 10 years of age; FANNIE MYERS, Saxophonist, accompanied by P. H. KAUFMAN. 8:00 to 10:00 p.m. Program arranged by "THE BAY NEST OF ORIOLES," of Santa 12:30 to 1:15 p.m. 6:45 to 7:30 p.m.

FRIDAY-

12:30 to

12:30 to 1:15 p. m. News Items. Music.
6:45 to 7:30 p. m. EDWIN PETERS, Reader; DOROTHY LEE DENT, Pianist, 14 years of age, pupil of ALICE McCOMAS GRAY.
8:00 to 10:00 p. m. Program arranged by OXNARD CHAMBER OF COMMERCE

SATURDAY-

11 CHOAT — 12:30 to 1:15 p.m. News Items. Music.
 12:30 to 1:15 p.m. ONOLEE JONES, Reader, pupil of MARSHALL STEADMAN, and MAE SCHWARTZ, Pianist, 11 years of age.
 10:00 to 10:0 p.m. Program arranged by ALBERT TESSIER, featuring ALBERT TESSIER, Pianist; AMADEO RENO, Violinist, and PAUL S. FRYER, 'Celist.

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WEDNESDAY-

10:00 to 12:00 p.m. PLAZA CABARET ORCHESTRA and musical entertainment.

SATURDAY-

9:30 to 11:00 p.m. PLAZA CABARET ORCHESSTRA and musical entertainment.

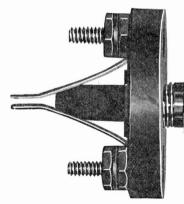
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SUNDAY-10:00 to 11:00 a.m. Full Church services by all denominations co-operating through the Church Federation, REV. J. A. STEVENSON, Executive Secretary, 436 Van Nuys Bldg. 4:00 to 5:00 p.m. Full musical Vesper service, under direction of MRS. WM. MABEE, National Chairman of Church Music, National Federation of Music Clubs, 321 Van Ness Avenue. 4:00 to 5:00 p.m. Industrial Choruses under direction of ANTONETTE RUTH SABEL, Director of Bureau Industrial Music, Chamber of Commerce.
8:00 to 9:00 p.m. PACKARD GIRLS CONCERT PLAYERS. 9:00 to 10:00 p.m. 10:00 to 11:00 p.m. Examiner. PACKARD SIX ORCHESTRA, Dance Music. 6:45 to 11:00 p.m. Silent night. TUESDAY-6:45 to 7:30 p. m. MYRA BELLE VICKERS, Teacher of Voice, presenting members of her two quartettes. 8:00 to 9:00 p.m. 10:00 to 11:00 p.m. Music Teacher's Association, Special Vocal and Instrumental Music. WEDNESDAY-6:45 to 7:30 p.m. MUSICAL THREE. DR. MARIAN TRACIE WHITING, assisted by her company, THE 10:00 to 11:00 p.m. American Musical Optimists, Special Instrumental Program. THURSDAY-6:45 to 7:30 p.m. 10:00 to 11:00 p.m. MRS. J. J. CARTER presenting Hollywood talent.
MRSS. J. J. CARTER presenting Hollywood talent, vocal and dance music. FRIDAY-TILDA ROHR and MINA WENZEL, Soprano. BURBANK CHORAL CLUB. 6:45 to 7:30 p.m. 10:00 to 11:00 p.m. SATURDAY-EUTERPEAN MALE QUARTET, MAUDE REEVES BARNARD, 6:45 to 7:30 p.m. 8:00 to ANNE PRISCILLA RISHER presenting well known children compositions. 10:00 to 11:00 p.m. .00 p.m. PACKARD RADIO CLUB, Special Program.
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9:00 to 10:00 p.m. WELCH NIGHT.

MONDAY-

9:00 to 10:00 p.m. Silent.

TUESDAY-

9:00 to 10:00 p.m. Program by SID GRAUMAN.

WEDNESDAY-

9:00 to 10:00 p.m. Special Memorial Day Program. Also the story of the Battle of Cantigny, by ADOLPH M. SUTTRO.

THURSDAY-

9:00 to 10:00 p.m. VENICE NIGHT-VENICE OF AMERICA BAND.

FRIDAY-

9:00 to 10:00 p.m. FINN FROLICH, the Sculptor, program.

SATURDAY

9:00 to 10:00 p.m. Program by SID GRAUMAN.

9:00 to 10:00 p.m. CORTLAND GILMORE of Long Beach, and his saxophone band.

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SUNDAY-

11:30 a.m. Regular Morning Service of the Church of the Open Door. Male Quartet.

6:00 p.m. Verper Service. Organ Recital.

8:00 p.m. Regular Evening Service of the Church of the Open Door. HARMONY MALE QUARTET. Gospel Solo, MR. C. M. BOOKS, Bass; Sermon, DR. R. A. TORREY.

TUESDAY---

7:00 to 7:30 p.m. Organ Recital. Special Vocal Numbers.

THURSDAY-

8:00 to 9:00 p.m. Program by the Men's Glee Club of the Bible Institute. (1)1 "Lead Kindly Light," Buck; "Arise, Shine," Rhodes, GLEE CLUB. (2) "Crossing the Bar," Adams, Quartet; (3) Flute Solo, Serenade, Gaunod, SAMUEL WHEATLEY; (4) "Oh, Hail Us, Ye Free," Verdi, GLEE CLUB; (5) Violin Solo, "Cavatina," Raff, CURTIS GLENN ELLIOT; (6) "Moonlight on the Lake," White, Quartet; (7) Bugle Song, Hatton, GLEE CLUB; (8) Bass Solo, "Open the Gates of the Temple," Knapp, H. C. RICHERT; (9) "Take Thou My Hand," Sullivan-Parks, Quartet; (10) "My Anchor Holds," owner, GLEE CLUB.

NOTE-Program for May 31 Same as Last Week



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Concert Daily Except Sunday 12:00 to 12:30 p.m.

Monday and Thursday Special Programs. 2:00 to 2:30 p.m.

Tuesday and Friday Code Practice. 4:00 to 4:30 p.m.

WEDNESDAY-

7:00 to 7:30 a.m. Walter Camp's Daily Dozen.

12:00 to 12:30 p.m. 6:00 to 6:45 p.m. Concert. o to 6:45 p.m. Goncert.

O to 6:45 p.m. Musical given by the CITY DYE WORKS CHORAL SOCIETY,
MISS BEATRICE VANCE, Acompanist.

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TUESDAY-Program by MARION WARDE of Warde Dramatic School of Ex-8:00 to 9:00 p.m. pression.

WEDNESDAY— 8:00 to 9:00 p.m. Prog mental and vocal talent. Program by GLADYS BURCH DALE, Violinist, and other instru-

FRIDAY-

8:00 to 9:00 p.m. Dance Orchestra.

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Radio Church Service. This is the only church of its kind in the 11:00 to 12:30 v.m. West. It is undenominational, and is intended to meet the spiritual needs through the Lord's Prayer. fundamentals of religion. Order of Service: Call to Worship. sional Prayer. Reading for Shut-ins. Reading of truth. Selections of Classical Music. Address. Popular hymns and other musical selections. GEORGE R. CHAMBERS, Min-Church Organ: GLADYS SALISBURY. ister in charge.

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SUNDAY

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3:30 to 7:00 to 8:00 to 4:00 p.m. 7:30 p.m.

Educational Programme by the PORTLAND LIBRARY ASSN. Oregon Agricultural College Extension Lecture. Concert by Musician Employees of the Oregonian. One-act play, "The Maker of Dreams." Hoot Owls. 9:00 p.m.

9:30 to 10:30 p. m. 11:00 to 12:00 p. m.

TUESDAY-

3:30 to 4:00 p.m. Woman's Programme. Lecture by GEO. B. EHINGER, Secretary Child Welfare Commission, on "The Dependent Child."

WEDNESDAY

3:30 to 4:00 p.m. Children's Progra 8:00 to 9:00 p.m. Special Memorial War Veterans and American Legion.

Children's Programme for Decoration Day.

Special Memorial Day Program by members of the G. A. R., Spanish

War Veterans and American Legion.
THURSDAY—
3:30 to 4:00 p.m. Woman's Program. Lecture by ANDREW MILLER, Field SSecretary
Oregon Bankers Association; subject, "Character, the Basis of Bank Credit."

FRIDAY-

3:30 to 4:00 p. m. 7:00 to 7:30 p. m. 8:00 to 8:15 p. m. 8:15 to 9:00 p. m. KENIN.

Woman's Program.
UNIVERSITY OF OREGON Extension Course Lecture.
Vocal Solos by MRS. FRED L. OLSON.
GEORGE OLSEN'S Metropolitan Orchestra directed by HERMAN

11:00 to 12:00 p.m.

Hoot Owls.

SATURDAY— 3:30 to 4:00 p.m. NELL.

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WOC-Palmer School of Chiropractic-484 Meters Davenport, Iowa-Pacific Time

SUNDAY-

6:00 p.m. Church Service, REV. W. G. OGLEVE, Pastor South Park Presbyterian Church, Rock Island, Ill. Subject: ,'A View From the Low, Green Door."
6:30 p.m. Baseball Scores.

6:30 p.m. Baseball Scores. 7:00 p.m. Musical Program (2 hours)—ERWIN SWINDELL, Musical Director. CAT ERINE ELLIOT, CATHERINE O'BRIEN, H. L. WALBOURNE, HOWARD SNYDER.

MONDAY-

Sandman's Visit.

4:30 p.m. Sandman's Visit.
4:50 p.m. Baseball Scores.
5:00 p.m. Educational Lecture—"Character Dressing, or Individual Expression in Dress," by E. W. SAMSEL, Director Displays, M. L. Parker Co., Davenport, Iowa.

TUESDAY-

3:45 p.m. 4:00 p.m. Chimes Concert. Weather and Baseball Scores. (No broadcasting on Tuesday evening by agree-

ment of Tri-City tations.)

WEDNESDAY-

4:50 p.m. 6:00 p.m Baseball Scores.

10 p.m. Daseball Scores.
10 p.m. Pipe Organ Recital, E. JOHN RICHARDS, Organist, assisted by JEANETTE BREWBAKER, Soprano.
10 p.m. Artist Musical Program, ERWIN SWINDELL, Musical Director. Program furnished by the WARD TRIO of Sterling, Ill. Immediately following the late musical program, "Tourists' Road Report." 8:00 p.m.

THURSDAY-

3:45 p. m. 4:30 p. m. 4:50 p. m. Chimes Concert.

Sandman's Visit. Baseball Scores.

FRIDAY-

4:50 p.m. Baseball Scores.

SATURDAY-

4:30 p.m. 4:30 p.m. Sandman's Visit. Sandman's Visit.

Baseball Scores.

4:50 p.m. 7:30 p.m. Dance Program (one hour)-P. S. C. ORCHESTRA.

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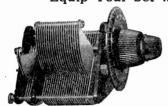
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WBAP—Fort Worth Star-Telegram—476 Meters

Owned and Operated by Fort Worth Star-Telegram, Fort Worth, Texas—Pacific Time
DAILY FEATURES—
7:00 to 7:15 a.m. Opening Market Quotations.
9:00 to 9:30 a.m. United States weather report; late cotton and grain quotations; O to 7:15 a.m. Opening Market Quotations.

to 9:30 a.m. United States weather report; late cotton and grain quotations; first call cotton-seed oil; Department of Agriculture fruits, vegetables and cattle divisions

quotations. 10:00 to 10:15 a.m. 11:00 to 11:15 a.m. Markets

Markets. Closing market quotations.

Financial Review.

Major League Baseball Scores.

1:00 to 11:15 a.m. 1:00 to 1:30 p.m. 1:45 to 2:00 p.m. 3:30 to 3:45 p.m. 4:30 to 4:45 p.m. Texas League baseball scores and sport review.

Sport Review. 6:00 p. m. SUNDAY-

9:00 to 10:15 a.m. Complete services of First Methodist Church, REV. J. W. BERGIN, D. D., Pastor; WILL FOSTER, Organist.
4:30 to 4:45 p.m. Complete Major and Texas League baseball scores.
6:00 to 6:10 p.m. Final Sport Review.

MONDAY-

O to 8:30 p.m. Concert by the Orchestra of the First Presbyterian Church, MRS. THOMAS HUBBARD, Director. (G. C. A. announcing.) 7:30 to

TUESDAY-

7:30 to 8:30 p.m. Concert of (The Hired Hand announcing.) Concert of band music and novelties, arranged by HUBB DIGGS.

WEDNESDAY

7:30 to 8:30 p.m. Final concert by the EUTERPEAN CLUB of Fort Worth. (G. C. A. announcing.)

THURSDAY-

7:30 to 8:30 p. m. Concest by the North Fort Worth High School Orchestra and Glee Club. (The Hired Hand announcing.)

FRIDAY-

7:30 to 8:30 p.m. Texas Christian University, 50-year jubilee program of pageant music and other features. (G. C. A. announcing.)

music and other features.

SATURDAY—

5:00 to 5:20 p.m. Review of the Interdenominational Sunday School Lesson by MRS.

W. F. BARNUM, Leader of the Barnum Bible Class of First Methodist Church.

7:30 to 8:30 p.m. On Saturday and Sunday The Star-Telegram observes a "silent night," courtesy to its tube set listeners wishing to try for long distance records.

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WWJ-The Detroit News-517 Meters

MONDAY-

The DETROIT NEWS ORCHESTRA. 2:00 p. m.

2:00 p.m. 9:05 a.m.

p.m. Ine DEIKUII NEWS ORCHESTRA.

Op.m. Markets and Baseball Scores.

The DETROIT NEWS ORCHESTRA.

The Town Crier; MRS. W. D. SCOTT, Contralto; MRS. FRANK STERNAL, Soprano;

ARTHUR LEFFLER, Baritone.

TUESDAY-

The DETROIT NEWS ORCHESTRA.
Markets and Baseball Scores. 9:05 a.m.

2:05 a. m. 2:00 p. m. 5:30 p. m. MUSIC NO P. III. MARKETS AND DASEDBUL SCOTES.
30 p.m. The Town Crier; The DETROIT EVENING NEWS; program by the CHAMBER MUSIC SOCIETY of Detroit, LOUISE LAW TRIO, LOUISE LAW COHN, Piamist; MISS MARION FRANCES COHN, Violin and MISS DOROTHY LOUISE COHN, Cello.
30 a.m. "Tonight's Dinner" and a special talk by the Woman Editor.

6:30 a.m.

WEDNESDAY.

9:05 a.m. 2:00 p.m. 3:30 p.m.

ESDAT—

5 a.m. The DETROIT NEWS ORCHESTRA.

10 p.m. Markets and Baseball Scores.

13 p.m. The Town Crier; The DETROIT NEWS ORCHESTRA; program furnished by members of the CHARLES A. LEARNED POST, American Legion.

THURSDAY-

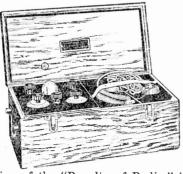
HUNDAI—
9:05 a.m. The DETROIT NEWS ORCHESTRA.
2:00 p.m. Markets and Baseball Scores.
5:30 p.m. The Town Crier; The DETROIT NEWS ORCHESTRA; the CATHEDRAL MALE QUARTET; THOMAS C. EVANS, Tenor; EDWARD GALER, Tenor; GEORGE MACDONALD, Bass and JOHN RENTON, Bass.

FRIDAY-

RIDAY—
9:05 a. m. The DETROIT NEWS ORCHESTRA.
2:00 p. m. Markets and Baseball Scores.
4:00 p. m. The Town Crier; The DETROIT NEWS ORCHESTRA; MISS JESSIE PHYLLIS KOPATZ, Mezzo-Soprano; MISS MILDRED SEEMAN, Pianist.
6:30 a. m. "Tonight's Dinner" and a special talk by the Woman Editor.
9:05 a. m. The DETROIT NEWS ORCHESTRA.
2:00 p. m. Markets and Baseball Scores.

SUNDAY-

8:00 a.m. 9:05 a.m. Church Services from St. Paul's Cathedral. The DETROIT NEWS ORCHESTRA.



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Radio Department

Los Angeles California

W F A A-Dallas News-Journal-475 Meters

Owned and Operated by A. H. Belo & Company, Publishers of Dallas News Pacific Time

MONDAY-

10:30 to 11:00 a.m. 0:30 to 11:00 a.m. Address on "Amusements," by J. D. STEWART, Director of Publicity for the Melba Theatre, Dallas, followed by musical program from the Melba. 6:30 to 7:30 p.m. Orchestra and Glee Club of students in Dallas colleges, D. L. COZZO, Director.

TUESDAY-

10:30 to 11:00 a.m. Address by DeWITT McMURRAY, editor of the Semi-Weekly Farm News, in a medley of humor, pathos and wisdom.
6:30 to 7:00 p. m. Musical Program by TITCHE-Goettinger Company's Orchestra, GEORGE ASHLEY BREWSTER, Director.
9:00 to10.00 a.m. Musical program by the W A CREEK COURTER CONTROL Clubs. 10:30 to 11:00 a.m.

Choral Club.

WEDNESDAY-

10:00 to 11:00 a.m. Address, REV. ROBERT A. HUNT, Pastor First Methodist Church, on "Living Epistles." Station will be silent for remainder of the day.

THURSDAY-

10:00 to 11:00 a. m. Address, JUDGE CHARLES F. GREENWOOD, president of the San Jacinto Club, on "Texas, the Republic,"
6:30 to 7:30 p. m. Musical program arranged by EMMETT B. PECK, Violinist, for assist-

ing musicians. 9:00 to 10:00 p.m. Music re-PIANO COMPANY of Texas. Music recital arranged under the auspices of the BUSH & GERTS

FRIDAY-

Address, DR. ROBERT STEWART HYER, Department of Physics, 10:30 to 11:00 a.m. Southern Methodist University on the Sunday School Lesson, Courage."
6:30 to 7:30 p.m. Musical program, Grace Methodist Epis EARLE D. BEHRENDS, Director.

program, Grace Methodist Episcopal Church Orchestra,

SATURDAY-

6:30 to 8:30 p.m. Musical program by JAMES G. BENNETT, Basso and MRS. JAMES G. BENNETT, Contralto. Readings by DR. J. J. SIMMONS, StSory Teller, specializing in negro and other dialect.

9:00 to 10:00 p.m. Violin and Piano Music Recital, WALTER J. FRIED, MRS. WALTER J. FRIED and PAUL VAN KATWIJK of Southern Methodist University Department of

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K S D-St. Louis Post-Dispatch-546 Meters

Pacific Time

MONDAY-

6:00 p.m. Broadcasting the complete opera, "Naughty Marietta" from the Municipal Opera Theatre, St. Louis. Noted principals, chorus of 100, orchestra of 80.

TUESDAY-

West Presbyterian Sunday School Orchestra, JOHN H. EGGERT, Director. 6:00 p.m.

WEDNESDAY-

Orchestral Concert and Musical Specialties at the Grand Central Theatre. 6:00 p. m.

THURSDAY-

Silent. 6:00 p.b.

FRIDAY-

0 p.m. Broadcasting the complete opera, "Naughty Marietta," from the Municipal Opera Theatre in St. Louis. Noted principals, chorus of 100; orchestra of 80.

SATURDAY-

p. m. Children's Concert, DOROTHY CORKINS, Vocalist and Reader; W. J. FORE-STEL, JR., Reader; ESTHER PORTMAN, Pianist.
 p. m. Baseball scores, World Market Survey, U. S. Public Health Broadcast.
 p. m. Special orchestral concert with solos broadcast from the Missouri Theatre.
 Organ recital at Missouri Theatre by STUART BARRIE.

5:30 p. m. 6:00 p. m. 9:30 p. m.

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Complete List of New Class B Wave Lengths

Thirty-four Class B stations, each with a territorial zone, have been licensed by the Department of Commerce to start operating on May 15th.

Specific B Waves by Stations

The calls and waves for 34 Class B stations follow:		
-	Call	Wave
California— Los Angeles, Earle C. Anthony	IZIDI	(469)
Los Angeles, Times-Mirror	Kri KHI	(395)
San Francisco, Hale Bros., Inc.	KPO	(423)
San Francisco, Mercantile Trust Co.	KFDB	509
Georgia—		
Atlanta, Constitution	WGN	429
Atlanta, Journal	.WSB	429
Illinois— Chiange Westinghouse Flor & Mfm Co	1737317	(9)
Chicago, Westinghouse Elec. & Mfg. Co	MAO	(?) 448
Iowa—	mny	110
Davenport, Palmer School of Chiropractic	WOC	484
Kentucky—		
Louisville, Courier Journal and TimesW	HAS	400
Massachusetts—		
Springfield, Westinghouse Elec. & Mfg. Co	.WBZ	(337)
Michigan—	*** ***	
Detroit, Free Press	WCX	$517 \\ 517$
Minnesota—	W W J	911
Minneapolis, Cutting & Washington Radio Corp	VIAG	417
Missouri—	, 111 G	***
Kansas City, Star	DAF	411
Sweeney School Co.	WHR	411
St. Louis, Post-Dispatch	KSD	546
New Jersey—	WOD.	40.5
New York—	WOR	405
New York, American Tel. & Tel. Co	DAV	492
New York, Western Electric Co	VEAF	492
New York, Radio Corporation	WJY	405
New York, Radio Corporation	W.IZ	455
Schenectady, General Electric Co.	WGY	(380)
Troy, Rensselaer Polytechnic Inst. W	$^{\prime}\mathrm{HAZ}$	(380)
Oregon—		, , , , , ,
Portland, Oregonian	KGW	(492)
Ohio— Cincinnati, U. S. Playing Card Co	TT CI A T	200
Pennsylvania—	WSAI	309
Philadelphia, Gimbel Bros	WIP	509
Philadelphia, Lit Bros W	VDAR.	(395)
Philadelphia, Strawbridge & Clothier. Philadelphia, Wanamaker	WFI	395
Philadelphia, Wanamaker	WOO	509
Pittsburgh, Kaufman & Baer CoW	CAE	(?)
Tennessee— Memphis, Commercial	WMC	500
Texas—		300
Dallas, News and Journal W	FAA	476
Fort Worth, Star Telegram W	BAP	476
Stations with waves in parentheses not definitely assigned.		

"Out of the Air"

By Listener-In

Advices from London tell that the radio set mounted on wheels and drawn by a goat or donkey is now seen on the streets and is attracting a big crowd of interested listeners. It will only be a short time until this means of entertainment will crowd off the old-fashioned hurdy-gurdy which has been such a familiar sight in the larger cities in England and this country. The gentlemen who make their living in this way are quick to catch hold of any novelty to catch the pennies, and it will not be long until we see something along the same lines as the London purveyor of melody on our streets.

The Avalon-Long Beach phone, as stated in a recent issue of RADIO DOINGS, is to be replaced with a cable. On June 1 this phone service will be either carried on by cable or will be operated on a wave-length of 1579 meters.

Radio is doing much in Asia toward the education of the masses. The Indian government has now authorized broadcasting by private enterprises. This is another step forward. The problem of educating the teeming thousands in India has always been a problem to the government of that country. Perhaps radio will be used extensively for this purpose and prove, once again, what a blessing radio has been to the world.

RADIO DOINGS seems to travel to many parts of the world. One of our advertisers has brought us in a letter from Hanover, Germany, enclosing his advertisement. The writer of this letter was an old friend and RADIO DOINGS has been the means of bringing these old friends together again, and incidentally of bringing business to this country.

S. L. Rothafel, manager of the Capitol Theater, New York, recently broadcasted a 100-minute program of the entire musical portion of the current performance at that house. Mr. Rothafel did the announcing himself, much in the manner of Will Rogers. The unusual feature of the affair is the fact that "Fred," a professional reviewer writing for Variety, wrote a complete review of the entire program. This is said to be the first time that a broadcast program. has been reviewed in any theatrical organ, and may be taken as one more indication of the lessening hostility on the part of the theater people for radio.

What we believe to be the first big radio picnic is to be given by the Marysville, Cal., nest of "Hoot Owls" on June 10th at Woodleaf, Cal. We hear that this is going to be a really big affair, and is to be attended by radio fans from the entire "sunshine state."

This is the sort of letter that pleases the whole staff:

"Here's my two bucks.

"You bet I don't want to be dropped from your list. It gets pretty lone-some out here in the desert, or rather it would if Mr. Marconi and his playmates hadn't trained and harnessed the ether.

"I get along pretty well with a six-tube set, and of course I could get along without RADIO DOINGS, but, then, I also could manage to farm without a tractor or horses. Why do it? I'll leave it to you.

"WALTER E. WESTMAN,

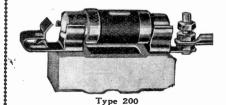
"Victorville, Cal."

Users of the new style tubes have experienced considerable trouble from blowouts. The Radio Service Company of Los Angeles and the Workrite Manufacturing Company have put new rheostats on the market which, it is claimed, will eliminate all danger of blowing out the new style of tubes:

RADIO FANS! CAUTION!!

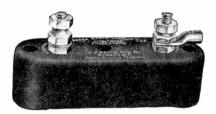
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Brach Vacuum Arresters

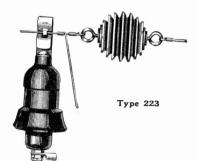


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