1 45 Majsic, W.M., 428, KYW, 294; WMAQ, 448.
2 20 - Pranish, WLS, 245.
2 30 - Majsic, WMAQ, 448.
3 00 - Majsic, KYW, 294; WMAQ, 448; WLW, 428.
3 03 - Majsic, WLS, 245.
3 20 - Majsic, WLS, 245.
3 20 - Majsic, WLS, 345.
3 25 - Majsic, WLS, 345.
3 25 - Majsic, WLS, 345.
3 45 - Baseball, WMAQ, 448.
4 00 - Organ, WLW, 428
Majsic, WLW, 428
Majsic, KYW, 294, WOC, 300; KSTP, 205.
4 30 - Majsic, KSTP, 205; KGO, 381; WCO, 370; KFI, 498, KNX, 286; WLW, 428
5 30 - Majsic, KOA, 361; KYW, 294, WSB, 405; WLW, 428; KOA, 261; KYW, 294, KSTP, 205.
6 05 - Orchestra, KYW, 294.
6 30 - Majsic, KOA, 261; KSTP, 205.
6 35 - Orchestra, KYW, 294.
8 30 - Majsic, KOA, 261; KSTP, 205.
6 30 - Majsic, KOA, 261; KSTP, 205.
6 05 - Orchestra, KYW, 294.
8 30 - Majsic, KOA, 261; KOA, 361; KOO, 364, KFI, 409; WOC, 300; KYW, 294, KSTP, 209.
7 00 - Orchestra, WLW, 428; KOA, 361; KOO, 364, KSTP, 209.

James J. Lamb

Technical Editor, QST, Who Will Address Annual Meeting of Radio Club of Rhode Island.

The Dials Diary

By the Trouble Shooter

It's well known that a great many

adjoists are not tuning for far-off sta-

tions and are more content to accept

local programs, chain or independent

or those emanating from relatively near

Why, then, I'm a ked, do these people

buy powerful sets when the small one

rears ago, might do just as well? The reason, of course, is that these

ets tust wouldn't do as well. People to-

tion of absolute fidelity, and you can'

get that quality except in receivers that are built to bring a fullness and a rich-

Understand, I'm not saying that as

expensive act is an essential, but I do

sny that if the radiolst wants high-clav reception, even on local, he's got to have

quality set. And that's what most of

them are demanding these days. Thus

sarily enter into it so much in that par-

In other words, regardless of whether

-the average radioist today demands

the best possible set, realizing that no matter where the program comes from

it is effective in relation to the ability

the receiver to imbue it with the

I service many a large set that never

200 miles away. These owners are satis-

fied with local and near-by programs

they want them to be "right."

The development is interesting an

important, and in some respects I think it indicates that radio very definitely has

tuned for anything more then 100 or

they want those programs

he's simply going to use the set for lo-cal—or use it that way most of the time

iess to the brondcast.

roper tonal qualities.

mand tone, they want reproduc

by stations.

14

PROGRAMS NEWS

HOOK-UPS COMMENT

RADIO PROGRAMS

	AN-THE SHEPARD STORES-343 Today.	11:10 p. m - Duke Ellington's Cotton Club band, Columbia.
8:00 8	. m Heroes or tue Church, Columbia,	Thursday
9.00 8	i. m.—aterning mudcai, satun trio, Cu-	8.00 a. m.—Morning devotions, Columbia. 8.30 a. m.—Something for everyone, Colum-
10:00 s	. in Children's story hour, Columbia.	bla.
11.467 8	m -Service from the Mathewson	9 00 a. m Jane Day and her polar bears.
	street aremodise apiscopal unurcit.	9:45 a. m.—Slades' pioneers. 10:00 a. m.—Women's Institute conducted by
	. m Organ recita, from Forest The-	June Abbott.
	n. m.—punamme nour, Dudley radio	10.45 a. m The Dandles-orchestral pro-
2.00 p	. is anday concert program.	11:00 a. mRadio Homemakers-Ida Bailey
2'00 1	. III	Allan
	mReus odingsy solitol. Dr. Percy	11.30 a m —Richard Hudnut du Barry beauty
1	in -masesan game trom Maves	11:45 a. m Shepard Stores concert orches-
	nrrenen trio anu soioist, Colum-	12 30 p m -Jack Reilly
5:30 p	. m.—Service from Tenth Presbyterian nurch, Cotumota.	12-45 p m.—The Cavallers—orchestral pro-
6.00	to - Income tongrittes speaker.	1:15 p. m Providence Journal and Evening

5:30 1 30 p. m.—Luncheon music—organ recital. 2 00 p. m.—Patterns in prints, Columbia. 2.45 p. m.—Happy Stanley and Arthur Ed-2.45 p. m.—rappy
3:00 p. m.—Baseball game from Fenway
Park—Red Sox va. N. Y. Yankees.
5:00 p. m.—Ted and his gang
6:00 p. m.—Shepard Stores concert orchestra. 7:30 p. m.—Radio Carollers, Dudley Singers.
8:00 p. m.—La ralina noutr. Cosumois. "rati
of a Nation," riercers, orcnessrat; on
Mes Vers Avaient Des Antes, "naha,
La Palina and orcnestrat: "Shadow
haften, "Founcieue, Insue quali-es unu
orcnesara, "Gilmare," audisco-sati, orcues-ra; "The woom Drops Low," Cacman, La Palina and orcnesara; "Firzacato, overs, Leipes, orcnesara; "Mu-6 30 p. m - "Roxy Clothes" shop hour. 6.45 p. m - Shepard Stores concert orches

6.45 p. m.—Shepard Stores concert orchestra.

7:00 p. m.—Providence Journal and Evening Bulletin news flashes.

7:03 p. m.—Newcasting.

7:10 p. m.—Weather

7:11 p. m.—Amos "M" Andy.

7:22 p. m.—Correct time.

7:25 p. m.—Physical Culture Shoe program.

8:00 p. m.—Providence Columbia.

8:00 p. m.—Froeram from Washington, D. C., U. S. Myrine band, Columbia.

0:00 p. m.—The detective stories, Columbia.

0:00 p. m.—Sonera hour, Columbia.

10:00 p. m.—George Oisen hour, Columbia.

11:00 p. m.—Providence Journal and Evening Bulletin news flashes.

11:05 p. m.—Baseball scores.

11:10 p. m.—Hotel Paramount orchestra.

12:00 p. m.—Biltmore Hotel orchestra.

17:00 p. m.—Biltmore Hotel orchestra. man, he Panna and occusaria, "Pissacato," bytran, beinots, ortensaria; "Musicai Trust," hadiey, mane quartet and
ortensaria; "Until," sanuerson, he Pislima and ortensaria, "Journaguet,
Gaine, orthestra.
p. m.—Sonarton program, Columbia,
p. m.—Mageste sheare of the Air,
columbia, 10:00 p. in .- Perest hour, Anne Dorothy 10:30 p. m. - around the Samovar, Columbia: p. n.—around the Samovar, Golumbia:
"Waiting," cronestra; ""-as Not the
Venu sending the areas," Lalena Karsmova, volinate; "Only Once," Eli Spivak, "Affitude, "Oliterand, separtic," Lance for the
Last," Granka, orthestra; "Laucastan
sacury," brancatra; acquery, "Sandarkawasy," brancatra; acquery, "Sandarkawasy," batcha Kazamova, volinate;
"Motalern boat," adme. Z. Nicoma,
suprano, "Laugh Louny," Eli Spivac,
baritone.

p. m.—arovidence Journal and Evening Friday m.—Morning devotions, Columbia, m.—Something for everyone, Columbia

bis.

9 00 a. m.—Jane Day and her Polar Bears.

9 45 a. m.—Grant's League of Thrift.

10:00 a. m.—Ida S. Harrington—American
Homemakers' Club.

10:30 a. m.—Educator entertainers.

10:45 a. m.—The Dandies, orchestral probartone.

11:00 p. n.—rovidence Journal and Evening State of the Manual State.

11:05 p. n.—Sascoult Scores.

11:10 p. m.—ripe Dreams, poetle reveries, Columbia.

11:30 p. m.—surasilan quartet, Columbia.

Monday

8:00 a. m.—Morning uerotions, Columbia.

#:30 a. m.—borning uerotions, Columbia. gram. 11:00 a. m.-Radio Homemakers-Ida Bailey Allen. 11.30 a. m .- Shepard Stores concert orches-12:00 p. m.—Radio Household Bazaar, Jean Carrill. 12:15 p. —Continuation of The Shepard Store concert crehestra. 12:30 p m.—Dr. A. Z Conrad, Friday in-spirational. 12:45 p. m.—The Cavaliers, orchestral pro-gram. 9:00 n. m.—Jane Day and her Polar Bears 10.63 n. m.-tromen & allemeller, consucted b 10:30 n. m .- Law Dandles, orchestral pro -The New Mother Hubbard, ColShenard Stores concert orches 12:30 p. m.-Popular songs by the Boston aingers. 12:45 p. m.—The Cavallers, orchestral pro

12:45 p. m.—The Gavallers, orchestral program.

1:15 p. m.—Providence Journal and Evening Bulletin news flashes.

1:30 p. m.—Barelay orchestra.

2:00 p. m.—Barelay orchestra. Columbia.

3:00 p. m.—Barelay orchestra.

3:00 p. m.—Italian orchestra.

3:00 p. m.—Lipton's tea dance.

3:00 p. m.—Aand program.

3:00 p. m.—Providence Journal and Evening Bulletin news flashes.

7:00 p. m.—Westachting.

7:00 p. m.—Westachting.

7:00 p. m.—Story in song. Columbia.

8:00 p. m.—Story in song. Columbia. 12:45 p. m.—The Cavalers, orchestral pro-brain.

1.15 p. m.—Providence Journal and Evening Bunctin news flashes.

1.50 p. m.—Barciay orchestra.

2:00 p. m.—Patterns in Prints, Columbia 5:10 p. m.—Barciay in Prints, Columbia 5:10 p. m.—Fet and flashed phints.

5:00 p. m.—Fet and his gang.

5:45 p. m.—Pinast Travelers. 5.00 p. m.—Axand P. Stores in music. 5:30 · m.—Axand P. Stores in music. 5:30 · m.—National Better Health Bureau. 7:00 p. m.—Providence Journal and Evening Bulletin news flashes. 7.05 p. m.—Newscasting.
7:10 p. m.—Weether.
7:11 p. m.—Amos 'n' Andy.
7:23 p. m.—Correct time.
7:25 p. m.—Baseball scores.
7:30 p. m.—Down by the sea.
7:45 p. m.—Blimore Hotel orchestra. 7-10 p. m.—Story in song. Columbia. 8-00 p. m.—Story in song. Columbia. 9-00 p. m.—Then and now. Columbia. 10-00 p. m.—Theo tory hour. Columbia. 10-30 p. m.—"Doc" West program. Columbia. 11:00 p. m.—"Boc" West program. Columbia. 8:30 p. m.—Musical Vignettes, Columbia. 8:30 p. m.—Ceco Couriers, Columbia. 9:00 p. m.—Physical Culture Magazine hou 11:15 p. m.—Providence Journal and Eve ning Bulletin news flashes. 1:20 p. m.—Basebull scores. 1:25 p. m.—Meyer Davis "Le Paradis" band. 2:00 p. m.—Bitmore Hotel orchestra.

Columbia.

9:30 p. m.—Vitaphone Jubilee hour.

10:00 p. m.—Daguerreotypes, Columbia.

10:30 p. m.—Night Club Romances, Columbia.

11:00 p. m.—Providence Journal and Evenin 8.00 s. m.—Morning devotions, Columbia. 8.30 s. m.—Something for everyone, Columbia. Bulletin news flashes.

11 03 p. m.—Baseball scores.

11:10 p. m.—Port Arthur orchestra bis. P. On a. m.—Jane Day and her Polar Bears. 10:00 a. m.—Magawunkapog Centre artists. 10:30 a m.—The Dandies, orchestral pro-1145 p. m.—Pancho's orchestra, Columbia, Tuesday 8:00 n. m.—Morning devotions, Columbia, 8:30 a. m.—Something for everyone, Colum gram. 11:00 a m.-Radio Homemakers, Ida Baile Allen. . m.—Shepard Stores concert orchestra. bia.

9.00 a. m.—Jane Day and her polar bears,

9.45 a. m.—Sylpho Nathol sentinels.

10:00 a. m.—The Rhode Island Federation o

Women's Clubs,

10:30 a. m.—The Glenwood Rangers.

10:43 a. m.—The Dandles, orchestral pro 11.30 a 12:30 p. m.—Cousin Charlotte's music club. 12:45 p. m.—The Cavallers, orchestral pro-12.45 p. m.—The Cavaliers, orchestral program.

1:15 p. m.—Providence Journal and Evening Builderin news flashes.

1:30 p. m.—Port Arthur orchestra.

2:00 p. m.—Patterns in Prints. Columbia.

3:00 p. m.—Baseball game from Fenwa;

Park, Red Sox vs. N. Y. Yankees.

5:00 p. m.—Concert orchestra.

7:00 p. m.—Concert orchestra.

7:00 p. m.—Providence Journal and Evening Builderin news Gashes. m .- Radio Homemakers', Ida Bailey Allen.
. m.—Shepard Stores concert orches

12:30 p. m.—Jack Reilly, 12:45 p. m.—Cavallers, orchestral program. 1:15 p. m.—Providence Journal and Evenin Bulletin news flashes. 7:00 p. m.—Providence Journal and Evening Builetin news flashes.
7:05 p. m.—Newscasting.
7:10 p. m.—Weather.
7:11 p. m.—Amos "N" Andy.
7:23 p. m.—Correct time.
7:25 p. m.—Baseball scores
7:30 p. m.—Tent occhestra
8:00 p. m.—Nitt Wist hour, Columbia.
8:00 p. m.—Babson Finance period, Columbia.
8:00 p. m.—Babson Finance period, Columbia. 1.30 p. m .- Park Lane orchestra, Columbis p. m.—Park Lane orchestra, Columbia, p. m.—Patterns in Prints, Columbia, p. m.—Paseball game, from Brave Field, Braves vs. Philadelphia, p. m.—Ted and his game, visiting Woon socket. bla.
 p op p. m.—Rhodes orchestra.
 g op p. m.—Temple of the Air, Columbia.
 10.00 p m.—National Oratorical contest from Washington Auditorium.—U. S. Marin 6.30 p. m.-Pabst Blue Ribbon program. 6.45 p. m .- Shepard Stores concert orche:

vasnington Auditorian.
band.

11:00 p. m.—National forum, Columbia.

11:30 p. m.—Providence Journal and Evening Builetin news finance.

11:35 p. m.—Baseball scores.

11:45 p. m.—George Olsen music, Columbia. tra.
7:00 p. ni.—Providence Journal and Evening
Bulletin news flashes.
7:05 p. m.—Newscasting.
7:10 p. m.—Newscasting.
7:11 p. m.—Weather.
7:11 p. m.—Gorect time.
7:23 p. m.—Correct time.
7:25 p. m.—Baseball scores.
7:30 p. m.—Baseball scores.
7:30 p. m.—Mandall scores. WJAR-THE OUTLET COMPANY-337 WIAR—THE OUTLET CONTRACT—33:

Today

10 45 a. m—Services direct from the First
Church of Christ, Scientist.

2 45 p m.—Bagby and Romilli moments, National: "Valve Gracieuse." Romelli,
afring ensemble: "Are Maria," Bagby;
"Remember," Romelli, vacai solos:
"Song of Evening." Bagby, atring ensemble: "Laddle and Lassle." Romilli,
"The Mean." Bagby, verai solog. 7 39 p. m.—Mandelin orchestra. 30 p. m.—Mandelin orchestra. 8.00 p. m.—Frederic William Wils—The Po-litical Situation in Washington Tonight.
p. m.—From Washington, D. C., U. S Navy band. Columbia.
p. m.—Paul Whiteman hour. Columbia.
p. m.—Curtis Institute of music pro-gram, Columbia.

"Song of Evening," Bagby, string en-aemble, "Laddle and Lassle," Romilli, "The Moon," Bagby, vocal solos, 0:00 p. m.—The Balladeers, octet and band, National: "Red Wing" (Indian Pables, Mills, octet, "Once in a Life-time," Walker, band: "Will You Love Me in December?" Walker, octet: "Lady Di-vine," band: "Banks of the Wabash," Dresser, octet: "Lovable," Whiting band: "Shade of the Old Apple Tree." 11.00 p. m —Curtiss Candy hour with Guy Lombardo and his Royal Canadians. Columbia. Columbia.

12:00 s. m.—Baseball scores.

12:05 z. m.—Blitmore Hotel orchestra.

Wednesday

10:00 a. m.—Morning devotions, Columbia.

10:00 z. m.—Something for everyone, Columbia. band: "Shade of the Old Apple Tree, Alstyne, octet; "Louise," Whiting imbia. 5. m.—Something for everyone, Co-lumbia. 5.00 n. m.—Jane Day and her polar bears. 9.45 n. m.—Grant's League of Thrifts. 10.00 n. m.—Women's Institute conducted by June Abbott. 10.30 n. m.—The Dandies—orchestral pro-Alstyne, octet: "Louise," Whiting, band: "Puniculi, Funicula," octet, 30 p m —Riviera string quartet, National. cted by Dr. & p m -- Services conducted Parkes Cadman, National. p. m.—Weather report, p. m.—Old Company's songalogue, Na-11.00 a m .- Radio Homemakers-Ida Balley al.—Capitol Theatre program, Na 11:30 a. m.—Interior decoration—Ida Bailey
12:00 m.—Shenard Stores concert orchestra.
12:30 p. m.—Port Arthur orchestra.
12:45 p. m.—The Cavaliers—orchestral pro-9.00 p. m -- "Our Government" by David

Thursday

9 45 a. m — Musical program

10 00 a. m.—Radio cooking school

10 10 a. m.—Good groceries by Sally Sawyer,

10 00 s. m.—Musical program

11.13 a. m.—Radio household institute—Na-9 15 p m.—Hawaiian Island quintet, 9 45 p m.—Hawaiian Island quintet, 9 45 p m.—Rapid Transit, National 0.15 p m.—Studebaker Champions, Na-12.45 p. m.—The Cavaliers—orchestral pro-gram
1:15 p. m.—Providence Journal and Evening
1:36 p. m.—Pattern flashes.
1:30 p. m.—Patterns in prints, Columbia.
3:00 p. m.—Studio program.
3:15 p. m.—Baseball game from Braves Field,
Braves vs. Philadelphia.
5:00 p. m.—The A and P. Voyagers.
6:00 p. m.—The Shepard Stores concert orchestra. 1:05 p m -- Providence Journal and Evening tional.

10-45 p m — Providence Journal and Evening
Bulletin news flashes,
Monday. Buileun news flashes.

1-10 p. m —Studio program.

1-30 p. m —Weather report.

1-35 p. m.—Roy Partington, Joe Piscitelli and Harold Hinckley.

6-00 p. m —Raiph Capaletti and Alphonse Nicholas. 10 15 a. m.—Musical program 10 30 a. m.—Good Groceries by Sally Sawye 1 00 a. m.—Musical program 1 1.15 a. m.—Radio Household Institute, Na

5.00 b. m -Raiph Capaletti and Alphonse Nicholas. 6-15 p m -Providence Journal and Evening Bulletin news flashes. 5-10 p m -Weather report. 6.35 p. m -Harold Sheffers dance orchestional

1:05 p. m.—Fravidence Journal and Evening
Bulletin news flashes.

1:10 p. m.—Studio program.

1:30 p. m.—Weather report.

1:35 p. m.—Continuation of studio program.

6:15 p. m.—Providence Journal and Evening
Bulletin news flashes. 5 30 p. m — The Shepard Stores contest ac-chestra.

7.00 p m.—Providence Journal and Eve-ning Bulletin news flashes.

7.05 p. m.—Weather.

7.11 p. m.—Weather.

7.11 p. m.—Uncle Red and his A. B. C. Club. ra, 7 op p. m -Correct time. 7.00 p. m -Narraganaett Hotel concert en semble 30 p m -- Coward Comfort program -- Na-7.11 p. m.—Ource see and his A. D. C. Ciuo.
7.29 p. m.—Correct time
7.20 p. m.—Baseball scores.
7.35 p. m.—Organ recital from the Forest
Theatre school
8.00 p. m.—Hank Simmons's Show Boat, Co-6 20 p m .- Musical program by Max Her man, cornet soloist.

6 30 p. m — Musical program by Max He
6 30 p. m — Weather report
6.35 p. m — Rhode Island dance hand.
6 55 p m — Catholic Charity fund appeal.
7 00 p m — Correct time.
7 00 p m — Carrect time.
8 comble
7 30 p. m — "The Rhode Island Historian"
7.40 p. m.—Harold Strong, tenor, accompanied by Violotics. 8 00 p m - Chicopractic Society of Rhode 8.00 p. m.—Hank Simmons's Show Boat, Co-lumbia.

9:00 p. m.—Van Heisen program, Columbia,
9:30 p. m.—Ia Palina smoker, Columbia,
10:00 p. m.—Kolster radio hour, Columbia,
Darimouth Glee Club.
10:30 p. m.—Fordence Journal and Evening Bulletin news flasher.
11:03 p. m.—Baseball scores.

A 55 p m -Providence Real Estate Exchan-7.40 p. m.—Harold Strong, tenor, acconpanied by Violette Marks
7.55 p. m.—Bareball sources
8 00 p. m.—Voice of Firestone, National,
8.30 p. m.—A. and P. Gypsies, National,

Today's Programs in Brief

For the convenience of radio fans the fol-lowing hourly schedule of broadcasting today is given in brief form. Figures following sta-tions denote wave length.

The hours are based on daylight saving 3.00--Muste, WJZ, 293; WT1C, 500; WBZ, 303; WABC, 349; WKBW, 204; WGR, 422; WRC, 469; KDKA, 300; WZAF, 434; WHP, 210
Taik, WHAM, 261; WGY, 380; Feature, KQAO, 297.
3 20--Organ, WGY, 380
Muste, WBZ, 303; WHAM, 261; WGBS, 234; WEAF, 454; WGR, 422.
3 45--Muste, WEEF, 500; WBAL, 283 LOCAL STATIONS LOCAL STATIONS

8 00—Feature, WEAN, 545.
9 00—Music, WEAN, 545.
10 00—Children's program. WEAN, 545.
10 15—Church, WAAR, 337.
11 00—Church, WEAN, 545.
12 15—Organ, WEAN, 545.
12 15—Organ, WEAN, 545.
2 00—Music, WEAN, 545.
2 00—Music, WEAN, 545.
2 15—Sunday school, WEAN, 513.
Feature, WJAR, 337.
3 00—Music, WEAN, 545.
Peature, WJAR, 337.
3 00—String quartet, WJAR, 337.
4 00—Peature, WJAR, 337.
5 00—Music, WEAN, 545.
5 00—Church, WEAN, 545.
6 00—Music, WEAN, 545.
6 00—Music, WEAN, 545. 4 09-Misic, WHAM, 261: WBAL, 283 WGBS, 254, WADC, 349, WKBW, 204 WOIS, 234, WABC, 340, WKBW, 204
WHP, 210.
Organ, KDKA, 305
Frature, WJZ, 305, WEEL, 508; WGY, 380, WfAC, 517, WGR, 545, WLC, 500
WEAP, 454,
4 10 - Orchests, WHZ, 303,
4 30--Church, WPI, 536
Music, WHAM, 281,
Frature, WPG, 273, KDKA, 206, WJZ, 305, WBAL, 283, WFC, 273,
4 5--Feature, WGBS, 254,
5 00-Church, KDKA, 306, WRC, 469
Music, WJZ, 303, WHP, 210, WABC, 319, WGB, 234,
5 13--Forum WGB, 234
5 15--Forum WGB, 422,
Music, WBZ, 303,
Church, WFG, 273,
5 30--Music, WEAP, 454, WGBS, 254; WCSH, 319,
Church, WKBW, 204, 5.30—Church, WEAN, 545.
6.00—Music, WEAN, 545.
6.11—Frature, WEAN, 545.
6.30—Music, WEAN, 545.
6.30—Music, WEAN, 545.
7.00—Music, WEAN, 547.
8.30—Music, WEAN, 545.
8.30—Music, WEAN, 545.
8.30—Music, WEAN, 545.
9.15—Talk, WJAR, 337.
9.45—Frature, WJAR, 337.
9.15—Talk, WJAR, 337.
9.15—Music, WEAN, 545.
10.15—Music, WEAN, 545.
10.15—Music, WIAR, 337.
10.30—Music, WIAR, 337.
10.30—Music, WEAN, 545.
11.10—News, WEAN, 545.
11.10—Prature, WJAR, 345.
11.10—Prature, WEAN, 345.
11.10—Prature, WEAN, 345.
11.10—Prature, WEAN, 345. Church, WKBW, 294. Prature, WHAM, 281. WJZ, 395, WGY, 380. WBAL, 283, WABC, 349. 3-Talk, WEEL, 508, 5-Talk, WEEL, 508, 5-Mussc, WEAP, 454, WGY, 380; WTAO, 511, WRC, 469; WOR, 422, WABC, 349, WTIC, 500, WHP, 210, WGB8, 254, 349. WTC, 500, WHP, 210, WOHS, 234.

6 03—Orchestre, KDKA, 306.

6 15—Music, WEEI, 508.

6 30—Peature, WEEI, 508.

Music, KDKA, 306, WODA, 240.

WHAM, 201, WJZ, 303, WBZ, 303, WTC, 500. WABC, 349. WOY, 360.

WHAL, 283.

7.00—Music, WBAL, 283. WEAP, 454; WGR, 409.

WCSH, 319, WTAC, 517, WOR, 422, WHP, 210. WEEI, 508. WP1, 536.

WCSH, 319, WEEI, 508. WP1, 536.

TO3—Music, WJZ, 393.

7 10—Music, WJZ, 393.

7 25—Music, WJZ, 303. EASTERN STATIONS 9 00- Children's hour, WABC, 348; WJZ, 393; WHP, 210.
9:30- Church, WKBW, 204
9 43--Communion breakfast, WGY, 380.
10.00-Feature, WPDA, 240.
Music, WABC, 348; WHP, 210.
10 30- Feature, WPAP, 297.
10:45-Organ, WPAP, 297.
Church, WEEL, 508, WIP, 492, WBZ, 300, WKBW, 204, WGR, 543, WNAC, 214.
11.00-Church, WQAO, 397; KDKA, 306.

7 25-Music, WBZ, 203,
7 30-Church, WGAO, 297, WCSH, 310
WF1, 536, WODA, 240
Music, WEAF, 434, WHAM, 261; WGY
280, WBAI, 283, WABC, 349, WJZ,
393, WBZ, 393, WOR, 422, WRC, 469,
WTIC, 590, WTAO, 517,
7 45-Church, WGR, 545, WHP, 210,
8 00-Church, WLWL, 273
Patter, WEZ, 393, KDKA, 396; WJZ,
295, WHAM, 261; WBAL, 283, WABC,
249; WTAO, 517, WEEL, 508, WGBS,
254, 214.
1.00—Church, WQAO, 397; KDKA, 306.
WAAM, 240; WDRC, 268, WCSH, 319.
WABC, 349.
Feature, WHP, 210.
1.30—Feature, WHP, 210.
2.00—Church, WRC, 469; WBAL, 384 Peature, WHP, 210.

11 30 - Feature, WHP, 210.

12.00 - Church, WRC, 469; WBAL, 384
WHAM, 261.

Orchestra, WHP, 210.

12.30 - Music, WBAP, 454; WJZ, 395, WABC, 349, WPAP, 297.

12.45 - Organ, WPAP, 297, 12.45 - Organ, WPAP, 297.

Peature, WPAP, 297; WBZ, 303; WHP, 215 - Ballads, WPAP, 297.

1.50 - Peature, WCSH, 319
Music, WEAP, 444, KDKA, 304; WBZ, 303; WHP, 210, WGR, 545, WRC, 469
WPAP, 297

1.50 - Peature, WABC, 349; WPAP, 297.

2.00 - Music, WHAM, 261, WHP, 210
Rosy and his gang, WRC, 440, WBAL, 281, KDKA, 306; WBZ, 395, WBZ, 345

Feature, WEAP, 454; WKBW, 204, Feature, WEAP, 454; WKBW, 204, Church, WODA, 240. Music, KDKA, 305; WJZ, 325; WHAM 241; WHAL, 283, WABC, 349, WBL, 303. 8 30-Minic WOR, 422, WARC, 349, WTAO, 8 30—Music WOR, 472, WABC, 349, WTAG, 517, WGBS, 234
8 45—Cheir, WOJAA, 340
Prature WHP 210,
9:00 p. m.—WABC, 349, WGBS, 254,
Talk, WRC, 469, WCSH, 319, WEEL, 508, WGR, 543, WTAG, 517, WTIC, 500; WGY, 380,
9:10—Planist, WEEL, 508
9 15—Music, KDKA, 306, WBAL, 283, WJZ, 393, WBZ, 303, WHAM, 261, WGR, 545 Feature, WEAP, 454; WKBW, 204, WOR, 545, 2:15—Feature, WABC, 349, 2:30—Music, WEAP, 454, WGY, 280; WHAM, 545
Feature, WTAO, 517.
Atwater Kent hour, WEAP, 454, WGY
380, WPI, 526, WEEL, 508, WRC, 469
9 25-Music, WCSH, 226; WPO, 273.
9 30-Organ, WIP, 231.
Music, WOR, 422. 261.
Prature. WIP, 402: WOR, 422.
2:45—Peature. WEAF. 454. WRC, 469.
WCSH, 319
Music. WABC, 304: WGY, 380

8 30-Music, WLW, 428; KOA, 361; KOO, 364, KPI, 469; WOC, 300; KYW, 294, KSTP, 205.

7 00-Occhestra, WLW, 428; KOA, 361; KGO, 384; KSTP, 205, WMAQ, 448, Music, KYW, 294

7 30-Music, KOA, 361; WLW, 428; WSM, 461; KYW, 294

7 50-Occhestra, WMAQ, 448, 8.00-Music, WSM, 461, WLW, 428; KYW, 294; WMAQ, 448, KOA, 361; WLS, 345; KSTP, 205; WSB, 405.

8 10-Music, WSM, 405, 8.16; KYW, 294; WSM, 405, 8.15-Music, WSM, 405, 8.15-Music, WCO, 370

8 45-Feature, KQO, 384, 9 15-Music, WGO, 384, KFI, 409; KYW, 294, WSM, 405; WLW, 423; KYW, 294, WSM, 405; WLW, 423; KYW, 294, WSM, 405; WLW, 423; KYW, 294, WSM, 405; WLW, 428; KOA, 261; KGO, 384; KFI, 409; WSB, 405; KSTP, 205, 324; KFI, 409; KSTP, 205, 326; KFI, 409; KSTP, 205, 329; KNX, 286; WLW, 429; KSTP, 205, 329; KNX, 286; MLW, 429; KNX, 9:30 p. m.-General Motors family party, Lleut, John Philip Sousa and his band, 10:30 p m -Provide .e Journal and Evening Bulletin news fisshes

Bulletin news fisshes

10:35 p. m — Tasebull reores.

Friday.

9 30 n m — Housewives Hadio Exchange, a
department conducted by Mrs. Wood
on matters of household interest. Ques-Lieut, John Printy Avec.

National.

10 30 p. m.—Empire Builders, National

11:00 p. m.—Providence Journal and Evening

Builetin news flashes.

11:05 p. m.—Baseball scores,

Tursday

9 45 a. m.—Musical program.

10:00 a. m.—Radio cooking school. 9 45 a. m.—Musical program. 10:00 a. m.—Radio cooking school. 10:30 a. m.—Musical program. 11:15 a. m.—Radio Household Institute, Naradio.

10 00 a m — National home hour — National.

11 00 a m — Musical program.

11 15 a m — Radio household institute — National. tional. 1:45 s m.—Housewives Radio Exchange, tional.

1:05 p m—Providence Journal and Evening Builetin news fiashes

1:10 p. m—Studio program,

1:30 p m—Weather report

1:35 p. m—Continuation of studio program

6:00 p m—Murical program by Carter and Glass 1:05 p. m.—Providence Journal and Evening Bulletin news flashes. 1:10 p. m.—Studio program. 1:30 p. m.—Weather report.

Class
6.15 p m -- Providence Journal and Evening
Bulletin news fisales.
6.25 p. m -- Weather report
6.30 p. m -- Raybestov Twins -- National.
7.00 p. m -- Correct time
7.00 p m -- Oli Boy Detectives.
7.20 p. m -- Brant-Strutton College of Providence program. 110 p. m.—Studio program.
130 p. m.—Weather report.
135 p. m.—Veoliyanna.
6.15 p. m.—Providence Journal and Evening
Bulletin news flashes.
6.20 p. m.—Musical program.
6.30 p. m.—Weather report.
6.35 p. m.—Massical program.
6.35 p. m.—Haseball acores.
6.38 p. m.—Correct time.
7.00 p. m.—Votrea service program aponsored by the National League of Women
Voters, National.
7.10 p. m.—Soconyland skeiches, National.
8.00 p. m.—Socolyland skeiches, National.
8.01 p. m.—Service time.
8.02 p. m.—Prophylactic program, National.
8.03 p. m.—Prophylactic program, National.
8.04 p. m.—Elequot Club Exkimos, National.
8.05 p. m.—Elequot Club Exkimos, National.
8.06 p. m.—Frovidence Journal and Evening
Bulletin news flashes.
8.07 p. m.—Baseball scores.
8.08 p. m.—Baseball scores.
8.09 p. m.—Cathelic Charity fund appeal.
8.09 p. m.—Radio-Keith-Orpheum Hour.
8.00 p. m.—Radio-Keith-Orpheum Hour. 7:20 p. m.—Bryani-Strutton College of Providence program.
7:50 p. m.—Baseball scores.
8:00 p. m.—Artists from Pays Theatres.
8:00 p. m.—Basement Studio Group of dramatic readers presents "The Violin Maker of Greenona"
9:00 p. m.—"An Evening in Paris".—National 9:00 p. m.—Cold Medal boys.
10:00 p. m.—Cold Medal boys.
10:00 p. m.—Half-hour with the Senate—National.

tional, 11:00 p m ---Providence Journal and Evening Bulletin news flashes 11:05 p. m.---Baseball scores. 10 45 s. m — Musical program 11 15 s. m — Radio household institute—Na tional, A

1:05 p m.—Providence Journal and Evening Builtein news flashes

1:10 p m - George Massari and his or-1 30 p. m -- Weather report. 1:35 p. m.-- George Massari and his orches

Wednesday

9 30 s m.—Housewires Radio Erchange, a
department conducted by Mrs Wood
on matters of household interest
Questions submitted will be sussered
by radio,
10.00 a. m.—Nutional home hour. National,
10 45 a. m.—Musical program.
11 00 a m.—Augus'a Bowen Fanning, fabric
stylist, vacation envembles,
11 03 a. m.—Musical program.
11 5 a. m.—Radio household institute—National. 6.15 p m - Providence Journal and Evening
Bulletin news flashes
6 20 p. m.-Musical program,
7:30 p. m - Westher report,
6 25 p m - The Symphonians,
7 00 p. m - Correct time
7 00 p. m - Musical program,
7:15 p. m. - Universal anfety series - National,
10 p. m. - Description of the series - National,
10 p. m. - Universal anfety series - National,
10 p. m. - Universal anfety series - National,
10 p. m. - Universal anfety series - National,
10 p. m. - Universal anfety series - National,
11 p. m. - Universal anfety series - National,
12 p. m. - Universal series - National - Nationa 1.05 p m -- Providence Journal and Evening 30 p m -- Baseball scores 35 p m -- Better Business Bureau of Pro-

1-10 p. im — Providence Journal and Evening
1-10 p. im — Studto program.
1-30 p. im — Weather report.
1-35 p. im — Continuation of studio program
1-35 p. im — Providence Journal and Evening
1-35 p. im — Providence Journal and Evening
1-36 p. im — Musical program.
1-36 p. im — Weather report.
1-37 p. im — Musical program by Pastucket
Community players 7:40 p. m.—Nopolitan Opera Company, un-der the leadership of Richard J Hart-ford Mmc. Eva Sorel, seprano, Mmc Clara Parquette, contraito, M. Duval, lenor: M Sorel, bass 8 20 p. m.—Rhode Island Medical Society talk 8.30 p m -- Lew White organ recital-Na-5.50 p. m.—Baseball scores. 6.55 p. m.—Automobile Club of Rhode tional. 9 00 p m — General Electric hour — National 10 00 p m — Lucky Strike dance orchestra talk,
7 60 p. m.—Correct time,
7 60 p. m.—Enri Shean and his orchestra,
7 25 p. m.—Earli Shean and his orchestra,
7 25 p. m.—Catholic Charity Fund appeal,
8 30 p. m.—La Tourathe concert.—National,
8 30 p. m.—Mobileit concert.—National,
9 00 p. m.—Happy wonder bakera.—National,
9 00 p. m.—Palmolive hour.—National,
9 30 p. m.—Palmolive hour.—National,
9 30 p. m.—Cold Strand orchestra.—National,
10 30 p. m.—Cold Strand orchestra.—National,
10 30 p. m.—Cold Strand orchestra. National.

1 00 p m — Providence Journal and Evening Bulletin news flashes.

11.05 p m — Baseball scores.

11:00 p. m -- Provid-nce Journal and Evening

Thursday

Island talk
p in --Baschell scores
p m --Musical program by Cheriott
Wheldon, opprano, Norman C Martin
tenor, Arthur C Holbrook, accompa-

sporalisal hourd talk

a no p. m — Seiberling singers National

3 30 p m — Program to be announced.

10.00 p m — Halsey-Stuart program — Naational.

11:05 p. m.—Baschall scores.

WPAW-SHARTENBERG'S-218 Monday 0 00 a. m.—Good morning, 0.30 a m.—Pautucket Woman's Club. :00 a. m.— Melody maid .15 a. m.—Fifth avenue of the air. 20 a m.—Whose birthday?

Tursday 0 00 a. m.—Good morning.
0 15 a. m.—A verse or two.
10 30 a. m.—Whose birthday?
1 00 a. m.—Melody maid
1 15 a. m.—Under Hawnitan skies.
1 15 a. m.—Under Hawnitan skies.
1 15 a. m.—News bulletins.
2 00 m.—Correct time.
6 00 p. m.—Rews bulletins.
6 20 p. m.—Rews bulletins.
6 20 p. m.—Rews bulletins. 6 30 p. m.—Weather report, 6 35 p. m.—Request period, 6 45 p. m.—Your home can be brautiful. 7 40 p. m -- The voice of memorie

Continued on Page Fifteen.

o no a. m - Good morning

Sensitivity Control One of the best ways to reduce the signal pick-up is to install suitable varible high resistance shunted across the antenna and ground connections, A table type clarostat will serve this purpose,

REINARTZ, LAMB TO SPEAK HERE

Inventors to Address Radio Club of R. I. Meeting

In Event of Absence, Jenkins Mit;

John L. Reinartz of South Manchester Conn , internationally-known radio in ventor, and James J. Lamb of Hartford technical editor of the A. R. R. L. maga rine, QST, have definitely announce their intention of being among the speakers at the first annual meeting and banquet of the Radio Club of Rhode Island, which will be held Saturday, June Mr. Reinartz has announced that his

topic will be "Draw Your Own Conclu-sions." He will discuss, among other things, fundamental radio circuits, the measuring of radio frequency resistances in various types of wire; ultra short wave transmissions and subjects helpful to radio enthusiasts who plan to enter the amateur field.

will explain the construction and op eration of the modulometer, a new de vice for measuring directly the per-

Short Wave Ploncer Mr. Reinertz, a Licutenant in the one of the first two experimenters to discover the potentialities of short waves in radio. On Nov. 27, 1923, operating his station 1XAM, he worked for several hours with 8AB, Deloy, in France, in the first short wave two-way communication across the Atlantic. A colleague operating station IMO, Hartford, assist ed in these tests, and also communicated Mr. Lamb, who owns and operates sta-

tion WICEI, Hartford, achieved distinc-tion in the radio world when, operating station WICCZ, Cape Cod, he sent the first 10-metre beam transmissions suc-cessfully from this country to New Zealand. He is now experimenting with long-distance radiophone transmissions Whether C. Francis Jenkins, television inventor, can be present at the event it is impossible for him to como Providence, he may transmit a spe-

which is nearing completion. Amateur Examinations Examinations by a Government radio supervisor and the technical program will be held the afternoon of June 1 at Brown University. The banquet, will be staged at the East Side Pheasan Coffee Shop, 151 Cushing street. One of the features of the banquet enter-tainment will be a "Liar's Contest," in which radio "hams" will tell unbeliev

equipment are offering prizes to winner feature the evening. Purchase of a clubbouse in Rumford modern radio inboratory, as well as meeting place, has been consummated, it was announced by C. N. Kraus, president of the club. Members of the organization will hold special meeting at the new clubhouse

this afternoon, beginning at 1 o'clock for the purpose of planning alterations and additions to the building.
The laboratory will be equipped with t least two short wave transmitting stations, apparatus for making all sorts of and television equipment.

MAY IN RADIO

Edison Applied for Patent on Wireles System in 1885 Significant radio developments have occurred during the month of Msy, as the following bits of history will indi-

May, 1885-Edison took out a patent on long-distance telegraphy without wires. The application was filed May 23 at the time he was working on inducion telegraphy, but the patent (No. 65,971) was not issued until Dec. 29. 891. It was later purchased from Edison y the Marconi Wireless Telegraph Com-

May, 1915-On May 12 in Battery Park, New York city, the Mayor unveiled a monument in memory of wireless operaors who had lost their lives at the post

of duty.
May, 1916-The determination of the difference in lengitude between Paris and Washington with the aid of radio which had been in progress since Ocober, 1913, was completed during this month. The result, expressed in terms of time, was 5 hours, 17 minutes, 35.67 seconds, and had a probable accuracf the order of 0.01 seconds.

May, 1923-During this month, the construction of a large radio station in he Stein, two of the foothills in the Bayarian Alps, was undertaken. terial was suspended by wire cables tretched between the tops of the two tills, the aerial wires being suspen from these cables.

May, 1926—Radiotelephone was used or the first time in directing the film ng of a naval scene off the coast of

California for a photoplay.

Electro-dynamic speakers, even when ounted in flat baffles, have compara ively strong resonances at certain low requencies. The baffle should be heavy nough so as not to vibrate readily. Some speakers have cabinets with thin ply wood sides which vibrate strongly give these speakers an unpleasant barrel one. In order that an electric-dynamic speaker may operate properly, it must be provided with certain other accessories. For instance, from 3 to 25 watts direccurrent are required for field excitation. The atronger the field, the more acceptive the speaker. In order to obtain high

Speakers, A Work of Science

Ambitious World-Wide Broadcasting Planned

Owners of WRNY Would Break Down Trade Pre udices Against America by Program Exchanges KPWF Service in 119 Countries and Provinces

BY ROBERT D. HEINL Transmit Television Program to the United States to the rest of the own shortwaye station, W2XE, for the world were outlined recently to the Federal Radio Commission by those seekchases Clubbouse in Rumford ing short wave channels for this purpose. The most ambitious of these was casting stations in France and Gerby the interests which a short time ago

he group which he represents proposes to embark upon an international plan operation within six months. 1. of world-wide good-will broadcasting. He said they had already expended \$150 .-000 and are prepared to spend \$2,000,000 or more in furtherance of the gigantic

Mr. Cuthell said that "much preju dice against America is being evidenced in trade circles in South America, China and other great countries" and that "Great Britain and Germany are making great inroads on this trade

Authority to establish transoceanic Mr. Lamb's subject will be "Design, radio stations for the rebroadcasting Construction and Adjustment of 1929 and interchange of programs with for-Phone Transmitters." In his talk, he eign countries by means of short waves radio stations for the rebroadcasting was also requested by Dr. Leon Levy. president of the Universal Broadcasting Company, operating Station WCAU in Philadelphia, and secretary-treasurer of the Columbia System, and G. W. Alexander, executive manager of the Pacific Broadcasting Federation of

Pasadena, Cal. Not Columbia Project. Dr. Levy told the commission that the plan was not to use his station as the outlet for the Columbia system, but for the transoceanic transmission primarily of WCAU programs originating in Phil adelphia, the transmitter to be located

There were those who expressed sur prise that the gold medal awarded for good diction over the radio by the Amercial television program to the delegate from his new station at Passaic, N. J. ican Academy of Arts and Letters in New York recently did not go to Graha

An inside story is that for a time the committee, which during the last few months has listened in on practically n John B. Dagiel However, when all things were considered, Milton J. Cross, head announcer WJZ, New York, finally brought home the bacon. It was the first time the Academy had ever awarded a medal to able tales of their exploits on the ether Several large manufacturers of radio

> Not the least interesting thing about the prize-winning Cross is his quiet manner of speaking. Although he has a deep, full voice over the radio, it may interest listeners to know that when and to countries as far away as Japa without the aid of a microphone it could would be made up of the best type of probably not be heard more than three music and include our foremost probably or four feet away.
> At the time of Lindbergh's return to

> At the time of Lindbergh's return to Washington, following his trans-Atlantic flight, two of the speakers on the Press Club's program—Richard V. Oulahan, dean of Washington correspondents, and Louis Ludlow, now an Indiana Congressman - were seeking some pointers an connection with the broadcasting of the program. That they might have expert Graham McNamee and Milton Cross, in radio listeners if it were announce

McNamee advised Oulahan to talk into the "mike" about the same as one talks into a telephone. Cross concurred in United States to the employes of Amti-

That night, standing in the wings of the Washington Auditorium, Cross in-troduced the two speakers to the radio audience. In so doing, he spoke in such mission by short wave lengths not only low voice that a writer, standing be- to steamships en route to various par ide him, could hardly hear what he of the world, but to airplanes in flight in So, where McNamee advised that a tries, even to aircraft making transatian

speaker over the radio talk into the microphone in the tone he uses in telephoning, it would seem that Cross talks nto the microphone about as a telephone repair man talks into that inwhisper.

When Lindy returned to Washington on that memorable occasion, Cross gave a bird's-eye description of it from the dome of the Capitol. This was the first ttempt at news-reporting over the radio in this country. McNamee was stationed at the Navy Yard, John B. Daniel at the Treasury, Carlin in the top of the Wash ington Monument and Cross in the Cap itol Dome.

In appearance, Cross is not unlike considerably younger, being about 32 years of age. He is of medium height ather stout, very unassuming in manner and possessed of a good sense o numor. Despite this, his demeanor ilways quiet and more or less subdued. Before his entry into radio seven year ago, Cross had made quite a name for himself as a tenor. Those who tune is on the Slumber Hour, broadcast from WJZ at 11 o'clock every night, are famillar with his singing of "Slumber On. which, incidentally, was written by an-

other announcer, Keith McLeod. Although not chosen to announce nany commercial accounts as many of the other radio masters-of-ceremo and never loquacious, Cross has done conspicuously good work ever since he went into broadcasting.
Thoroughness is one of his character-Incroughness is one of his character-istics, and he is an especially good an-nouncer of musical events. With it all nouncer of musical events. With it all he is a man of excellent personal habits be used provided the receiving set is

and exceedingly popular among his fel-

Station WABC, the "key" station of the purpose, he explained. He said that last year preliminary he. cotlations were undertaken with bread-

by the interests which a short time sgo bought WRNY in New York.

Chester W. Cuthell, president of the station, seeking six transoceanic short in the representation, seeking six transoceanic short in the group which he represents proposes. phia station would be ready to begin Mr. Alexander said the racine west-ern Federation plans a radio project both broadcasting and abort-wave re-l condensting, which will involve an ex-penditure of \$3,500,000, with the equip-ment alone to cost \$185,000. Work al-Mr. Alexander said the Pacific West-

ready has begun on KPWP at Los An-geles, the 50,000-watt broadcasting staion, which, under the construction pernit granted by the commission; must be completed by Dec. 31. Mr. Alexander said the arrangement

ow are being made with "119 different cuntries and provinces in connects with relay broadcasting and services and for continental rebroadcasting of the programs of Station KPWP." Chia Japan and other countries in the Pa-cific would be the special objective. Non-Profit Organization.

Mr. Alexander stated the Federation made up of civic, social, cultural, edu cational and religious organizations of California, Arizona and Nevada, and is a non-profit-making benevolent organization. Ray Lyman Wilbur, Secretary the Interior, he said, is vice presiden ouf the corporation and W. Bertram Ste ens, bishop of Los Angeles diocese he Episcopal church, is president, Although dedicated primarily to ti Although dedicated primarily to the promotion of aviation, the new owner of Station WRNY, New York, propose to make it the key station in one of the most pretentious projects yet undertaken of promoting good will between the United States and foreign countries. Despite the fact that the Federal Radio Commission has had numerous interna-

Commission has had numerous intern tional projects put before it, the pres-entation made by Mr. Cuthell, who is also general counsel for the Curtiss ariation interests; Walter S. Lemmon, genral manager of Station WRNY: Can R. H. Marriott, radio engineer, and Wil-liam H. White, Jr., Washington associ-ate of Mr. Cuthell, was unusual in many It unfolded to the commission, a world

wide good-will undertaking on the par of American business interests which few years ago would doubtless have bee considered visionary and fantastic in the extreme. Yet with the aid- of shor waves, the commission was assured by every announcer of consequence in the Capt. Marriott that the plan is today to United States, had practically decided change in the commission was assured by hanically fo in an experimental stage, and can t done if the radio control body will gran the use of the six short wave chann applied for by the New York group.

W2XAL Station Call . Briefly, the idea is, through Stati W2XAL, the short wave transmitter attached to Station WRNY, to bread programs simultaneously to Central at South America, to European countrie such as England, France and Germa

It is just possible that they might be terests or advertisers just as are the chain programs we hear nightly in this would be a reciprocal arrangement for broadcasting programs from foreign countries to the United States. It take no great amount of imagination to think of the interest which might be arouse who happened to be visitors in the club that tomorrow night we would be at the time.

program originating in China.

The scheme would also permit of regcan companies conducting operations it foreign countries for example the Amer the United States, perhaps of

Entertainment in Clouds "It is not looking too far into the future to believe that before very long all airplanes may be equipped with head-phones." Capt. Marriott told the Radio Commission, "so that passengers, while travelling in them, may be in receipt of regular programs carried by these & waves directly to the airplanes, the short waves being more suited for use in sircraft than the long waves, because they require less antennae equipment."

It was explained to the commission that six different frequencies as asked for by WRNY would be needed, due to the peculiar effects on short waves of daylight and darkness and summer and winter conditions, all of which are en countered simultaneously in this world-wide broadcasting. This projected program covers day and night condition and the Far East and the Southern hem-

The Radio Commission has reserved its opinion in all three of these international broadcasting projects, but expects to reach a decision at an early date.

Plan To Eliminate Static

Among the various means of reducing the disturbing effects of static is the use of a small antenna. This may be relatively low and short outdoor wire, or tenna receives less powerful signals, but this may be compensated by using a more sensitive receiving set, employing, that is, regeneration or radio-frequency of wire on a frame a few feet squ such an antenna. The coil antenna has the edvantage that it can eliminate, by since it can be placed without any sensitivity with a low exciting current, changes in the receiver wiring and can the clearance between the moving coll be put where handlest.

changes in the receiver wiring and can the clearance between the moving coll proval of those closely in touch with the the atmospherics that come from a special control of the control of th

and the second s

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RADIO PROGRAMS

KDKA-PITTSBURGH-306.

5 00 p. m -- Orchestra 5 30 p. m -- Same as WJZ. 6 00 p. m.-- Calvary Episcopal Church ser

WARC-NEW YORK-319.

9 00 a m -- Morning musical
10 00 a m -- Children's hour.
11 00 a m -- West End Presbyterian

WESO-BARSON PARK-181.

4 30 p m -Same as W ; 5 00 p m -Uncle Ed and his dream chil-

5:30 p m -- To P 15 p m -- Same as WJZ, 9 15 p. m -- Musical program 9.45 p. m -- Kirk silver hour, 10 45 p. m -- Evening reveries

WBZ—SPRINGFICLD—363
4:30 p m — Same as WJZ
6:00 p m — Twins program.
6:30 p m — Same as WJZ
8:15 p m — Fashionators
9:15 p m — Travet tips.
10:00 p m — Organ recital.

WGBS—NEW YORK—2AL 3.30 p. m.—Mary and Rese Kapilian 600 p. m.—Saxophone octet 45 p. m.—Marion Smith contrairo 300 p. m.—Dera-Dingwall ensemble 500 p. m.—Lillian Cirsham, soprae

5-30 p. m —Lillian Oresham, soprano dith Sands, planist
6 00 p m —Concert orchestra
7 00 p m —Swiss Alpine players.
8 00 p m —Orchestra
8 20 p m —Orchestra
9 30 p m —Orchestra
9 30 p m —Orchestra
9 30 p m —Orchestra

10 13 p m - Same as WJAR

WAAM—NEWARK—210, a m.—Service from Second Presby-terian Church

7.00 p. m -- Same as WJZ.

Continued from Page Fourteen. 11:15 s. m.-Just harmony, that's all. 11:30 s. m.-P.fth avenue of the air

11:15 a. m.—Just harmony, that's all.
11:30 s. m.—Fifth avenue of the air
11:35 s. m.—Request period
11:35 s. m.—News bulletins.
12:20 m.—Correct time
6:30 p. m.—News bulletins
6:30 p. m.—Your home can be beautiful.
6:30 p. m.—Weather report.
6:35 p. m.—Haseball scores.
1:30 p. m.—The algnal
1:30 p. m.—The girl baritone
7:30 p. m.—The girl baritone
7:30 p. m.—The Meiklejohn melody hour.
Thursday
1:50 s. m.—Good morning.
1:50 s. m.—Melody maid.
1:50 s. m.—Fashion paraders.
1:100 s. m.—Fashion paraders.
1:100 s. m.—Fashion paraders.
1:100 m.—Correct time.
6:30 p. m.—News bulletins.
6:50 p. m.—Refung comfort by Slocum.
6:50 p. m.—Your home can be beautiful.
6:50 p. m.—Your home can be beautiful.
6:50 p. m.—Baseball scores
7:30 p. m.—Home signal
7:30 p. m.—Harmony twins, Briggs and
Leonard.
1:50 m.—Harmony twins, Briggs and
Leonard.
1:50 m.—Harmony twins, Briggs and

Leonard.

1.25 p.m.—Radio Jim, "What's Your Trou-ble"

1.20 p. m.—Original meiody ramblers.

1:30 p. m.—Original meiody ramblers.

1:00 a. m.—Good morning.

1:030 s. m.—Whose birthday?

1:030 s. m.—Your home can be beautiful.

1:100 a. m.—Pifth avenue of the air

1:30 s. m.—Victor new release period.

1:1:50 s. m.—News builetins. 11.35 s. m.—Victor new release period.
11.45 s. m.—News bulletins.
11.45 s. m.—Correct time.
600 p. m.—Rossreelt, the old and the new
615 p. m.—Rossreelt, the old and the new
625 p. m.—Westher report
8.10 p. m.—Earls of Pawtucket
7.00 p. m.—Earls of Pawtucket
7.30 p. m.—Earls of Pawtucket
7.30 p. m.—Baseball scores
7.35 p. m.—Your home can be heautiful.
7.40 p. m.—Gider'n apples barn dancers.
7.51 p. m.—Gider'n apples barn dancers.
7.52 p. m.—Good morning.

10:00 s. m.—Good morning.
10 15 s. m.—Let's make believe.
10:15 s. m.—Whose birthday?
11:00 s. m.—Melody maid.
11:15 s. m.—Samuel Slater fretted string o

11:15 a. m.—Samuel Sinter fretted string or chestra,

11:45 a. m.—News bulletins.

12:00 m.—Correct time.

6:00 p. m.—News bulletins

6:15 p. m.—Your home can be beautiful.

6:30 p. m.—Weather report.

6:30 p. m.—All request period.

6:40 p. m.—Rosevelt, the old and the new 6:50 p. m.—Time signal

7:05 p. m.—Time signal

7:05 p. m.—Killma Hawaiians.

7:25 p. m.—Riding comfort by Slocum

7:30 p. m.—Barber shop chords.

FASTERN STATIONS.

WJZ-NEW YORK-393 m.-Children's hour m.-American Pro-Art string qua tet.

1:00 p. m.—Concert artists' hour.

2:00 p. m.—Roxy symphony concert.

3:00 p. m.—Young People's Conference

4:00 p. m.—Godfrey Luctor, volunist

4:10 p. m.—McKinney susicians.

5:00 p. m.—Selon neichies

8 30 p. m.—Whitail Anglo-Fersians
700 p. m.—Correct time and baseball scores
7 05 p. m.—The Nomacs
7 30 p. m.—At the Baldwin
8 00 p. m.—Enna Jettick melodies.
8.15 p. m.—Coller's radio hour.
9.15 p. m.—Tone Pictures
9.45 p. m.—Utics jubiles singers.
10.15 p. m.—Correct time. m.—Correct time,
m.—National Light Opera singers
m.—Vibrant melodies WEAF—NEW YORK—434
12:30 p. m.—Sylvestre hour
1:30 p. m.—Blue and White Marimba or
closestra
2.00 p. m.—Old Man Sunshine.



RADIO JIM

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YourSummerHome Let us show you a set particularly suited to country or sessione. Massie Service ensures satisfaction. It's the big 1/2 of radio ownership. THE WALTER W. MASSIE



For SCREEN GRID and ALL OTHER A-C Sets

10 45 a.m.—Organ recital.
12:30 p. m.—Theatre presentation.
12:45 p. m.—Billy Barnes, organist.
1 00 p. m.—Musical.
1 15 p. m.—Naide Nordi, bailads
1 30 p. m.—Mac Oinnesan, violinist.
1.45 p. m.—Aldo Varconi, pianist.

3 30 p. m.—Riviera string quartet.
4 00 p. m.—Same as WAAR
5 30 p. m.—Twilight voices.
6 00 p. m.—The Continentals
7 0.0 p. m.—The Continentals
9 0.15 p. m.—Atwater Kent hour.
9 45 p. m.—Rapid Transst.
10 15 p. m.—Same as WJAR.
10.45 p. m.—Same as WJAR.
11.30 p. m.—Same as WJAR. WPG-ATLANTIC CITY-273. WPG—ATLANTIC CITY—3
430 p. m—Community vocat a
mental recital
5.13 p. m—Religious service
7 00 p. m—Special Sunday concer
9 15 p. m—Special Sunday concer
9.25 p. m—Concert orchestra.
10 00 p. m—Special musical.
11 00 p. m—Organ concert WQAO—NEWARK—297.
11 00 a m —Calvary morning services.
3.00 p. m.—Inspiration hour
7.30 p. m —Calvary evening services.

WRC-WASHINGTON-450 12 00 m -- Service from Memorial Lutheran Church 1 30 p. m -- Concert artists' hour. 2 00 p m -- Same as WJZ 2 45 p m -- Same as WJZ 3 00 p m to 5 00 p m -- Same as WEAP. 5 00 p m -- Service from Washington Cathe-dral dral
6 00 p in -Same as WEAF
7 00 p m to 9 15 p, m -Same as WJAR
9 15 p m to 10 15 p m - Same as WEAF,
10 15 p m - Same as WJAR
10 45 p m to 12 p m -Same as WEAF.

12 00 p. m — Jewish program
1 45 p m.— Schubert string quartet
2 15 p. m.— Schubert string quartet
2 15 p. m.— Three Little Sachs
2 45 p. m.— Den Alley, tenor
3 00 p m — To 5 00 p m Same as WEAN
5 00 p m.— French trio and guest soloist
5 30 p. m.— Same as WEAN
6 00 p m.— Concert orchestra
6 30 p m.— Littlemann's entertainers
7 00 p m.— Frashiun plates and chimea.
7 30 p m.— Herbert's entertainers
8 00 p m.— To 11 30 p m. Same as WEAN.
11 30 p. m.— Hawaiian quartet
12 00 p m.— Correct time WTAG-WORCESTER-317.
4 00 p m -Same as WJAR
6 00 p m -Same as WZAP
7 00 p m -Same as WJAR
7 30 p m -Worcester centre of of Drama

s on p m. Studio program,
8 30 p m. Studio program
9 00 p m. Studio program
9 00 p m. Stame as WAAR
9 45 p m. Stame as WEAP,
10 15 p m. Same as WEAP,
10 43 p. m. Correct time and news. 100 p. p. — Midnight ministry

WBAL—BALTBIORE—384.

12 00 m.—Whitsunday aerstee from Old St.

Paul's Protestant Episcopal Church

200 p. m.—Ta 4.00 p. m.—Bann as WJZ

400 p. m.—Michael Weiner, stollinist, and

LeRoy Evans, planist

30 p. m.—Same as W. WTIC-HARTFORD-500. 4 00 p. m. Same as WJAR 6 00 p. m. Same as WEAF 7 00 p. m. Remainder of program same

> Radio Questions and Answers

Radio Editor, Sunday Journal: I have received a circular describing a set that is claimed to give marvelous power and volume because it has a pushpull amplifier. I am considering severn sets. This one has two 112-A power ubes, while another set, costing about the same, has only one power tube, a 171 A. Which do you advise? Providence. L. L. R.

WCSH-FORTLAND-319.

a m —State Street Church service.

p. m —Radio Parish Church service.

p. m —to NJO n m —Same as WJAR.

p. m —Statio program.

p. m —Same as WJAR.

p. m —Same as WJAR.

p. m —Same as WJAR.

p. m —Variety half hour.

p. m —Same as WJAR. (As far as the power tubes go, alone would suggest the one having the 171-A tube, as this will handle more un-WDRC-NEW HAVEN-228,
11 00 a m -Service from the Church of the
Redeemer distorted energy than two 112-A tubes. However, there may be other features that would alter this opinion .- Ed.) Radio Editor, Sunday Journal: My new phonograph is not an electric

Redeemer

WEEL-BOSTON-308.

45 a m - Stree from First Church of Christ Scientist

145 p m - Werkly book ralk

400 p m - Sere as WJAR

5.45 p m - Radio chat

6 15 p m - Rehards Clark musical

6 30 p m - Fox Fur transpers.

7 00 p m - Same as WJAR

7 30 p m - Carden talk

7:50 p m - News disnatches.

8 00 p m - Jenney corcert

9 00 p m - Sunday - ht talk,

9 10 p m - Same as WEAF

9.45 p, m - Oakland Motor Company

chestra.

10 45 p. m - News dispatches.

WFI-FHILADELPHIA-534. machine, but it has a special sort of tone chamber. Do you believe this would make a good loud-speaker for a set using frequency amplification? What type of unit is needed? (Yes, this would probably make a good speaker. You would need to get an at-tachment that would fit the tone arm of the phonograph and you would be repaid if you picked out a good make. At

best, they do not begin to cost as much

as a regular loud-speaker. You could take the tone arm off the machine to

WFI-PHILADELPHIA-334.
4 30 pm —Service from Second Presbyter10 pm.—Service from Second Presbyter17.30 pm.—Service from Arch Street Presbyterian Church have the unit fitted. If the dealer doesn't know the exact size needed -Ed) Radio Editor, Sunday Journal: In purchasing a dynamic speaker, rould it be better to get the 110-volt A. C. type, even though my set is storage battery operated? However, I can buy a dynamic that works from the storage

battery. Providence. charged, this type will give as good re-sults and will cost less in the first place. It will also be cheaper to operate. The storage battery should be about 100ampere-hour size.-Ed.)

WGE-BUFFALO-343.

10 43 a m —Servicy from Westminster Presbyterian Church

12:00 m.—Correct time

1 30 p m —Same as W.Z.

2 00 p m.—Tidewater sympony hour

4 00 p m —To 7.30 p m —Same as WJAR

7.30 p m —Correct time, sports, and news

items. Radio Editor, Sunday Journal: Is it true that single control of a radio set is not as good for distance? Providence. C. N. H.
(Partly. For extreme distance, better 7.30 p m —Correct time, aporta, and nave items.
7.45 p m —Service from Central Presbyter-lan Church.
9 cp p m —Same as WJAR
9 15 p m.—To 10 15 n m —Same as WEAF
10:15 p. m.—Same as WJAR
10:45 p m.—Time, weather and late news use a set having "vernier" condensers or "trimmer" condenser attachments.—

Redio Editor, Sunday Journal: WGY-SCHENECTADY-388.

9-45 s m - Communion breakfast, suspices of Holy Name Boelety, St. Luke's Reman Catholic Church

2-30 p m.—Index vocal trio.

2-45 p. m - Flectial of baritone songs.

3.00 p m.—Address by Dr. Henry T.

Moore Due to a short-circuit in my radio set he power transformer burned out and it was defective? The country but in by the radio repairman.

W. H. D. it was defective? The same kind was

3.00 p m. — Address by Dr. Henry T.

3.30 p m.—Organ recital
4 00 p m.—Organ recital
5 30 p m.—Out of the past
6 00 p m.—Out of the past
7 00 p m.—To 7 p m.—Same as WEAP.
7 00 p m.—To 9 15 p m.—Same as WJAR.
9 15 p m.—Same as WEAF until 10 15 Not necessarily, althought it might be. Perlups a condenser became short-circuited, and this caused abnormal current to be drawn from the transformer f the lighting circuit was too heavily used. It possibly allowed the abnormal WHAM—ROCHESTER—261.

12 00 m—Moraing thurth service
2 0p. rt.—General Electric Refrigerator
procram
2 30 p. m.—Rippling rythms
3 00 p. m.—Burdic recital.
4 00 p. m.—Sundic recital.
4 00 p. m.—Sundic recital.
5 00 p. m.—Rack to melody.
5 00 p. m.—Rack to melody.
5 30 p. m.—National religious service.
6 30 p. m.—Same as WJZ.
7 00 p. m.—Twilight hour.
7 30 p. m.—Twilight hour.
7 30 p. m.—Correct time and weather. former was damaged Use a small fuse to protect the radio set-5-ampere size

Radio Editor, Sunday Journal: Please state and explain briefly Ohm's Law, by which volts, ampere and ohms are calculated. F. D. Providence.

(Ohm's Law states that the voltage is equal to the current multiplied by the IR. It can also be given as R equals E I. or I equals E R. The voltage is expressed in volts, the current in amperes, the resistance in ohms. In applying this law, we must be careful to consider these quantities all in the same circuit or portion of circuit.--Ed i

RADIO AVIATION COURSE

Jacksonville Station Telling Listeners

WINN-NEW YORK-291.

WINN-NEW YORK-291.

10 p m.—Dance orchestra
13 p m.—Orchestra
15 p m.—Orchestra
16 p m.—Greatra
16 p m.—Greatra
17 p m.—Greatra
18 p m.—Greatra
18 p m.—Greatra
19 p m.—Greatra
19 p m.—Greatra
10 p m.—Greatra
11 p m.—Greatra
12 p m.—Greatra
13 p m.—Greatra
14 p m.—Greatra
15 p m.—Greatra
16 p m.—Greatra
17 p m.—Greatra
18 p m.—Greatra
19 p m.—Greatra
19 p m.—Greatra
10 p m.—Family party
10 p m.—Family party
10 p m.—Atwater Kent period
10 p m.—Evening church service
10 p m.—James Maxwell and Charles
10 p m.—James Maxwell and Charles Jacksonville, Pla -- (AP) -- Station WJAX is conducting an armchair course in flying in conjunction with the Reserve Officers Association of this city The course is held at 6 p m, each Wednesday and consists of simple lessons, designed principally for those with no previous knowledge of flying. Instruc-10 45 a m —Service from the Holy Trinity
Church
12 30 p m —Time signals.
2 30 p m —International Bible students' tions in taking off and landing are given by noted civilian and army aviators At the close of the course an examination will be held and the papers graded by the Reserve Officers Association. The best students will be award-ed free flights and a chance to continue WRW-BUFFALO-204.

m.—Episcopal service.

m.—gChurchill Tabernacle morning award to the best Boy Scout student will be given by Capt Sterling A. Wood, U. S. A., in charge of reserve activities in Jack sonvillle.

Replacement of Tubes
In substituting a 301A, also known as
201A, tube in place of a 300 soft detector valve, in addition to changing the
value of the filament resistor, the grid WOR-NEWARK-122.
2 30 p. m -- Lawser's Air Magneline
3 00 p. m -- Sunday Affermoon salon
3 30 p. m -- Maplewood Community chorus return should be connected to the posttive filament lead instead of to the negative filament lead required for use with the 300, or 300A. In substituting a 112A or 371A tube in place of a 301 or 301A tube in the last audio stage of a receiver the plate and grid bias voltages should be changed to the recommended values for maximum, results. In substituting a 112A for a 112 only the value of the filament resistor need be

THE PROVIDENCE SUNDAY JOURNAL, MAY 19, 1929

With Providence Radio Hams

"Elements of Alternating Current" will be the subject of a talk by William T. Vyman at the hext meeting of the Prov series of talks on elementary electricity. At the last meeting, he explained the electrical functions and characteristics of alternating current generators.

phone stations. Mr Smith has worked. Arriving in Dutch Borneo about June a number of Western 'phone stations. I, the party will go up the Barito river take up electrical engineering.

tis Docherty, 196 Congress avenue, Providence, has just gone on the air. Alidence, has just gone on the air. Al-though a newcomer in local amateur. Anthropology of the University of Chi-ranks, Mr. Decherty has worked a num-cago will go up the river, taking a light ranks. Mr. Docherty has worked a num-ber of stations and cleared some truffic. He is using 75 watts power. Eugene Petit, WIBII, is now radio op-

erator on a passenger ship minning between New York and New Bedford. Mr Petit, still an active member of the Providence Radio Association, has been operating on several oil tankers running beween New York and the West Indies. Norman H. Blake, owner and operator

of amateur station WIBDQ, has joined

the staff of WEAN, local broadcasting station, as an operator. His time on the

air as an amateur operator will be con-siderably limited henceforth. Robert Thompson, WICKB, has orked many foreign stations during the last month and has received letters from

number of the stations worked.

Neal Judkins, WIPM, is busy handling traffic for the army amateur network He also has been receiving television pictures from stations in Washington Jack Boyle, WIATM, is now studying for a commercial radio operator's license

He expects to go to sea this summer. LOW WAVES STRONGER

ans Report Increased Volume Fron Foreign Stations, Danville, Va.--(AP).-Consistent listeners on the short wave bands have oberved a marked strengthening of signals rom Chelmsford, England, which relays London program on 25 metres. This de-velopment checks with experiences of noted during the past month.

The improved reception appears to be not so much the result of technical improvements at Chelmsford as in atmospheric conditions. The Dutch station PCJJ, at Eindhoven, which is back on the air is showing strength.

The British Broadcasting Corporations is giving two late phonograph concerts each week, usually Monday and Thurs-

day, beginning at 7 p. m . Eastern time, and lasting two hours. KDKA, the Pittsburgh station, recentintercepted the short wave signals from PCJJ and gave a brief re-broadcast shortly after re-broadcasting the London program. The reception was considerably marred by static.

A VACANT ROOM, if rented through a

LUCKY AMATEUR

Chicago "Ham" Will Study Radio Conditions in Borneo Chicago—(AP)—When Harry W. Wells was in knee pants a few years ago, he got a boyish thrill from tales about the wild men of Borneo.

Now, a radio engineer at 22, he is on his way to the interior of that storied idence Radio Association Thursday night land where he will live while he makes at its headquarters, 76 Dorrance street, a study of equatorial and tropical wire-This is to be another of Mr. Wyman's less conditions. Selected from among 600 applicants

Wells will be in charge of the radio communication and research work of lectrical functions and characteristics of alternating current generators.

Russell Smith, operating his amateur of the primitive tribesmen. The expestation at his summer home down the dition is expected to remain in Borneo bay, reports conditions very good for from one to two years. I, the party will go up the Barito river

Early next fall, Mr. Smith expects to to Poerock-Tjahoe, an outpost of civi-leave for Lowell Institute, where he will lization where the main base will be established. Here a short wave portable transmitter and receiver will be in-Theodore Seelman of Chicago and

> transmitter and receiver to maintain contact with Wells at the main base. The heavy jungles and heat of the tropportunity to study radio transmiss under adverse conditions.

Wells, an engineering graduate of the University of Maryland, has been op-erating amateur station 3KU since 1922. Last summer he was radio operator on a steamship running between New York and Galveston, and since last fall he has been an engineer of a leading electrical company.

Libraries Maintained

The larger radio stations have enor-nous musical libraries, provided and maintained for their own use. prominent station has a library in which there are 78.000 sheets of music. Such music is purchased directly from publishers abroad and, of course, closer contact is kept with publishers in this country. Incidentally, it is in-teresting to note that in this particular library, the largest foreign col-lection is of Hungarian music, with Ger-man running a close second.

Sets Trim and Compact Looking over the new radio sets, the observer is impressed with one outstanding characteristic. That is the trimness of appearance of the latest receivers. Comparison is not being made with the obviously bulky sets of an earlier era in radio, but with those of just a year or so ago. The designers in 1929 have suc-ceeded in turning out sets that are beauvelopment checks with experiences of a tifully compact and remarkably clean year ago at this season. During mid-of line. They are unobtrusively handwinter, reception from London fluctuated... and lacked pronounced atrength living rooms.

Vagrant Waves of Interest

Radio in France is known as T. S. F. This stands for Telegraphie Sous Fils. which means telegraphy without wire,

to Fans

Broadcast programs are now being

Radio manufacturers of the United States are doing an export business of slightly more than \$1,000,000 a month

A broadcasting station in Lima, Peru

two half-hour periods a week. Approximately 2,585,000 people in Great Britain are paying 52.50 each for a listener's license. A total of 14,000 licenses has been issued without charge to blind persons.

The experimental consolidation of all ranscontinental messages on the Wash-



practice will be made permanent.

The voice of Dean Igoe, the "Gloom Dean," was heard by listeners in Eng-land for the first time March 1, when he spoke at the dinner of the Cardiff Cym-rodorian Society in the City Hall, Car-

diff, on St. David's Day. There are now 28 weather reporting and communication stations for air-

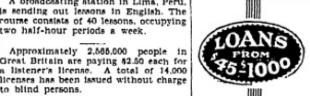
ington-San Francisco circuit operated by A recent survey showed that 95 per-the Navy has proved successful and the

15

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Sale Price \$3.49 Special Floor Varnish. 75c Interior Spar Varnish. 95c Gloss White, 84c 4-liour Enamels, 90c Gloss White, 84c 4-liour Enangels, 89c Nomar Varnish Stains, 59c Super X White Enamel, \$1.00

FLAT WHITE Qt. 84c-1/2 Gal. \$1.50-Gal. \$2.75



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3-26 Model Roadster\$ 950 3-33 Model Club Sedan\$ 950 4-33 Model Coupe\$1450

5-26 Model Sedan, 5 Pass.\$1700 5-26 Model Phaeton\$1900 Chrysler Touring 350 Auburn Sedan \$ 650 Chandler Sedan Franklin Sedan Hupmobile Sedan 1000 Bulck Coupe Hudson Coach LaSalle Coupe 1650 Locomobile Sedan 750 Locomobile Brougham 500 850 Cadlliac Coupe Chrysler Coupe 1050 MAN THE ASK

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			9	
	Marmon Sedan Limousine	450	Reo Sedan	200
	Marmon Roadster	650	Rickenbacker Sedan	350
	Nash Touring	600	Stearns-Knight Sedan	500
	Nash Sedan	700	Stearns-Knight Sedan	500
	Nash Sedan	070	Studebaker Coach	600
	Overland Coach	400	Studebaker Touring	400
	Peerless Sedan	550	Willys-Knight Sedan	700
	Pierce-Arrow Rondster	800	Wills Ste. Claire Roadster	650
	A O O W I	T C	ONE	
٦X	THO OWI	V .5	ONE	

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WIF-PHILADELPHIA-192.

WKBW-BUFFALO-204.

2 00 p. m.—Organ recital. 3 00 p m —To 6.30 p m.—Same as WEAN

5 00 p m — Napewood Community chorus
5 00 p m — The Psychologist Says.
5 15 p m — Forus
6 00 p m — Grear Cathedrala
7 00 p m — Coppert orchestra.
7 30 p m — Coppert orchestra.
8 30 p m — Chori invisible.
9 30 p. m.— Market and Halsey street playbouse.

WPAP-PALISADE \$297 m.—Theatre presentation.

8 00 p m - Gervice Church.

WNAC-BOSTON-214.
WNAC-BOSTON-214.
10 45 a. m - Service from Temple Israel
Remainder of program same as WEAN.

WLWI-NEW YORK-273.

program

p:30 p. m.—Organ recital

10 00 p. m —Instrumental quintet

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May 19, 1929 | Providence Journal (published as The Providence Sunday Journal) | Providence, Rhode Island | Page 68

DX HEAVEN FOUND

Alaska Town Hears Foreign as we decided to get a set and at least try Well as U. S. Stations

Shungnak Boasts Total Lack of the help of two or three other good Interference, Excellent Atmos- and balanced all the parts of a five-tube pheric Conditions.—Programs in neutrodyne. Strange Tongues Workaday Oc-

School to F. C. Crews of 316 Seventeenth | Lord be with you." It was the closing street, S. E. Washington, D. C., Shung- | Lord be with you." It was the closing street, S. E. Washington, D. C., Shung- | Lord be with you." It was the closing street, S. E. Washington, D. C., Shung- | Lord be with you." It was the closing the school is located, must be a heaven to guers at the day of the week since, the school is located, must be a heaven to guers at the day of the week since, the school is located.

writes, "Germany is very little farther from us than Southern California for they come to us across the pole. Programs put on in Germany on Tuesday night reach us Monday morning, due to

Italy. On Friday morning after Thanksgiving, 1927, we ate breakfast to some nderful grand opera music from that

Japanese Jabbering "One German station taught English last year and for nearly an hour one morning we heard Robinson Crusoe-a few words at a time-given in English. few words at a time—given in English. then in German. One station in Japan is teaching English this year. A short time ago we heard the months of the year spoken very slowly. in English, and shortens the life of the tubes and plays

nations speak the English language. Intensity decreases just as if the volume "You spoke of your crystal set—we control was turned down, then within a too, had a crystal set in 1921-22 when in Bremerton, Wash... and we're as pleased then to be able to hear Seattle greatly increase the volume.

A NEW CAR FOR ALL

ha we are now to hear President Cool-idge give his Thankegiving Proclamation over radio (we heard that this year). When we came North in 1922, our friends told us that it would not be postble to AND OF WORLD and a set which would pick up the nearover 2000 miles away). We existed the first two years, how I cannot tell,—but when we went out for a month in 1924, yard before we entered the Alaska School Service, so he knew quite a little about what he wanted and with

Heard Church Services

couts in the navy yard, he assembled

"When we first set the neutrodyne up we thought it was Saturday and when Judging from a letter written by Mrs. first words to come through our horn Inez E. Moore of the Alaska Native like a thunder storm. "And now may the for EN fans.

"It reems atrange to everyone that we are able to hear so many stations and so widely separated, but our location has much to do with that, also the lack of interference. It is like placing us at the peak of a triangle, and then radio, like so many strings or ribbons stretching out in all directions with none so vastly farther away than others," Mrs. Moore writes, "Germany is very little farther"

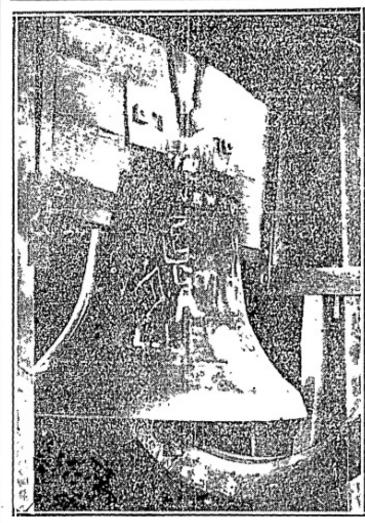
"We then sent for a more selective set, an eight-tube ultradyne. It was the international date line. Auckland, New Zealand, is our most distant station which comes to us regularly in the sum-

in a prize fight or grand opera.
"Antennas and batteries mean a lot in "You see, they have their winter when we have summer, so their broadcasting is stronger at that time. We hear them occasionally now, but not so well as in the both A and B's. We have for outside antance station, but the one which gave us the greatest thrill was IRO of Rome. about 36 feet next our ceiling. Some just the outside, and sometimes the in

> **Yoltage Pluctuations** Receiving sets that operate from the

then, oh, such jabbering in Japanese. It havoe with tonal quality. When the will surely be the means of making all voltage drops into the ninetics the sound

East Greenwich Academy Retires Old School Bell



A Faithful Old Servant Yields to Progress

fully retired an old and faithful servant. hangs silent before the quick efficiency too. The students have always rung the

East Greenwich Academy has regret- of the electric bell system recently installed.

The bell was cast in New York city in For nearly 100 years the great iron bell 1840 by E. Force, and until 1910 it in the tower building has served both act index the fire slarm for the town in student and townspeople. But its day is Citizens rose and retired by it, and if the bell-ringer overslept, so did the town.

hell, receiving a liberal allowance from their tuition for the service and on occasions when the rope has severed, some accommodating young Vulcan would hammer the bell by hand until the last student had "made class,"
One wonders about the cryptic letter ing carted on the beams and inscribed on the bell itself. Those boys and girls who, in a spirit of daring and adventure climbed a hundred feet or so up the long, dark stairway—up the rickely ladder-and carved their initials there What has become of them all-wha

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were their destinies? But the antiquity of the old bell is not without honor. It will still hang in the south tower overlooking the campus and when the school team rides to victory its mellow clamor will still nnounce the good news.

Men-Made Statle Good reception cannot be had from a receiving set until interference or mande static is checked. Virtually all of these are caused by local electrical machinery, such as moters, vacquum electric, washing machines, refrigerators, oil lauraers, hair driers, sign flashers and all other electrical apparatus. Every power and the commany is except seeking co. and light company is easerly seeking co-operation: it wants to sell electric cur-rent, and interfering machinery brings them constant complaints Real estate operators cannot have satisfied tenants when the radio reception is spotled by noises from oil humbers, feeless refrigcraters and elevators.

Good Contact Needed

Because A C tubes operate at comparctively low voltages and lifely current, it s necessary that the spring terminals of sockets make very good contact with the tube prongs. The 326 type operates at 15 volts and 105 amperes, while the 327 type operates at 2.5 volts and 1.75 ampres, and if ever contact is not made the resistance between the tube prong and the socket terminal may be sufficient to reduce current supply to the 327 to a velue that is too low for satisfactory

RADIO AND MOVING

Ean Should Make Sure Set Will Work at New Location

Receiver is an Electric, Owner Will lie Wise if He Investigates Otherwise, Apparatus May Be

When you move-think about your new location? How are you going to transport it? How about the tubes? And will you need a new aerial?
The most important matter, unless cour set secures Al.L. its power from but eries, is to be sure the set will funcat your new address. Homes in this country are usually supplied with elec-tric current in one of the following

forms, in order of prevalence;

2. 110 volts, direct current.
3. 110 volts, alternating current, 25

4. 32 volts, direct current, farm light-If your set is being operated from one of the choice sources of power, you must have exactly the same type of power at the new location, or the set will no work. Worse, you are likely to ruin the

et if you connect it to the wrong type

quently employed. Direct current re-quires special set connections. You will cometimes find large groups of apartent buildings with their own power plants furnithing direct current. electric meter in the besement of the house or apartment is usually marked in such a way that you can tell whether it is for direct or alternating current. In country locations, the 110-volt alterrating current is supplied as a rule par things in radio, according to the conin 60 cycle frequency. Most A. C. radio
sensus of well-qualified observers.

For instance, it is cointed out radio.

will not work on the other, and may be damaged by connecting them to the wrone type, so find out—first—before connecting a radio set to the house aled, than weeks and even months of lighting socket in a new location. The farm lighting plants, at 32 volts D. C., are seldom used except to furnish torage battery power, so that these pres-

nt no special problem On Moving the Set

While a radio set is usually construct-in a sensational manner, not altogether of quite ruggedly nowadays; still, it is distasteful, however, to the radio busidelicate mechanism. If possible, move he set in your car, where it can ride omfortably on the rear cushions. Remove all the tubes, no matter how the in the original cartons or in soft cloth, o stold the slightest jurring. The ele-1. 110 volts, alternating current, 60 esult will be a noisy, howling set. Many set-owners will find it more of a nuisance to take down their aerials than to leave them, and the next tenant will usually take advantage of an acrial, if there is one. A new aerial wire, insulators, lead-in. lightning arrester, etc cost but little, and will be a good invest-

> The Average Receiving Set. The average set now in use has from

ment anyway in improved results.

EFFECTIVE JOLTS broadcasting of Great Events Awakens Public to Radio.

D

Important events, broadcast via the radio, play an impressive part in the further popularization of the art. "receiver in every home" slogan gets in biggest impetus through the speciacusensus of well-qualified observers.

For instance, it is ointed out, radio sets are built for this kind of current.

In some places, and e-pecially in many vins converts by the droves when such a converts by the droves when such an event as a presidential inauguration supplied and specially-built sets are is programmed. Such a schedule, occupaced. Sets built for one frequency pying only a few hours, will do more to make nearly what make nearly what is programmed. It is, as they say, human nature, of course, the continued goodness of "regular" programs wins out in the long run, probably, by an inexorable process of slow but stearly and uninterrupted the continue of the accretion. The big event gets in its work :

> ness and industry.
>
> Every line of endeavor these days needs its periods when the spotlight glares upon it with warming fervor, and glares upon it with warming iervor, and its special events—bringing, any 100 stations throughout the country into a glargantic hook-up for an occasion of magnitic hook-up for an occasion of magnitic and international interest—provides radio with just that. It is well that radio does offer these densant jolts every so often, for it has become so stabilized, so accepted, that its millions of adherents lapse into a matter-of-fact attitude. I th new stuprinciples achievement in radio broad-casting brings a fresh realization of the vital and breath-taking part the whole

development is playing in our national of current supply.

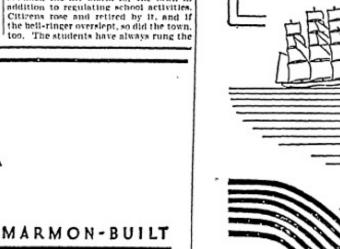
City Services

In the densely populated sections of cities, direct current at 110 volts is fre
cities, direct current at 110 volts is fre
The average set now in use has from six to seven those, either battery or power-line operated. Its average daily you in your business may be offering his services through a classified ad today, hours a year.

The verage set now in use has from the verage for the verage daily you in your business may be offering his services through a classified ad today. Look under "Situations Wanted" THE VERY MAN you need to help

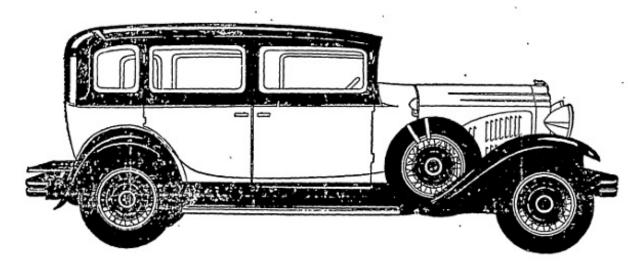
AFTER ALL --- WHY SHOULD YOU BE

IN THE \$1000 CLASS

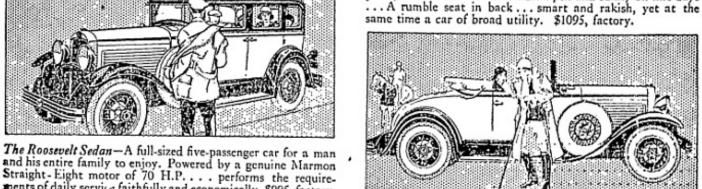


Almost any \$1,000 car will give you \$1,000 value -BUT (and here's the point) how much will it be costing for repairs and upkeep within a year or two?

A hundred dollars, or so, more on the downpayment - maybe three additional payments - and you can have a Reo Flying Cloud. And a Reo will not only keep you free from serious repair bills well into the third year (saving quickly the added investment) but it will give you exceptional service for four, six, or even more, years. For here is a car that for long life, performance and mechanical dependability is rated with cars listed in the highest price-brackets . . . and one that will give you a pleasure and satisfaction which

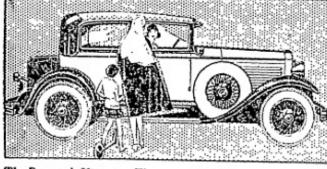


Illustrated is the 5-Passenger sport sedan model of the Reo Flying Cloud on the 115-inch chassis.

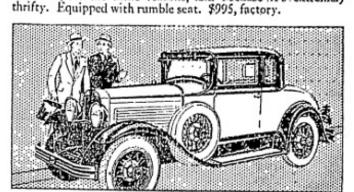


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