### Radio Range Will Develop 10-Fold

Manufacturers Predict Revolution in Industry Within Five Years.

Cleveland, O., Nov. 21.-The range of radio sets will be increased tenfold, interference will be drowned out and static eliminated by high power broadcasting, just getting under way, Pow el Crosley, jr., Cincinnati, head of the Crosley Radio corporation, declared in an address before the Elec trical Supply Jobbers' association

Gen. Guy E. Tripp, chairman o the Westinghouse Electric and Manu facturing company, another speaker declared that the radio industry has grown faster than the automobile in dustry and has not yet reached the saturation point. Eight per cent of the Westinghouse output is radio equipment. Tripp said.

The radio industry is in a chaotic state because everything that has the name radio will sell, Crosley declared. The business will settle down to healthy competition when big manufacturers are able to meet the de mand and then "the public will be more discriminating."

"Dealers should build a sound foundation for this tremendous in dustry, which looks big today, but is only a dwarf compared to what it will be within five years," Crosley

"Broadcasting is the foundation of the industry. Most people take it as a matter of course, but without it there would be no industry. You will see a gradual decrease in the number of .small broadcasting stations The tendency is for more power. The 500-watt station of today will be a joke a few years from now.'

Tripp warned the dealers that they must prepare for the time when the big power and lighting companies start to sell electrical goods.

Admitting that the cost of distributing products is a cause of much of the economic unrest, he said, he did not know how to reduce the number of middle men or to reduce the cost except by increasing the turnover.

#### RADIO

0-11 orchestra. IN. New York (360), 6:30 orches-18. New York (360), 6:30 orches-18. State of the Jazz Kings; 8:45 18. 9:15 trio, 10 entertainers, 10:20-

WGY. Schenectady (380). 8:30 orches-KFQX. Seattle (231), 8-9 reports, news; bedtime, 10-11 orchestra, 12-1 orcnes-

# WOAW Program

Saturday, November 22.

6 p. m., plane recital by Grace Dansky, light and possibly caused corrosion. Again, pupil of Grace Leidy Burger, accompanist. Piane soles:

(a) "Wedding Day at Treedhaugen"

(b) "March of Dwarfs" .... Grieg Grace Dansky

Violin sole, "Hungarian Dance", Haeshi Marjorle Smith

Ma

# 130 p. m. dinner program

\*\*p m. program arranged by Corinne

\*\*Paulisen Thorson, planist and instructor.

\*\*Rolling Stones.\*\*

Lois Day

\*\*Rolling be resoldered to the shafts before .....Rolling

"Butterfly" Mary Alice Mithen Nevin "Gondollers"

Evelyn Thur

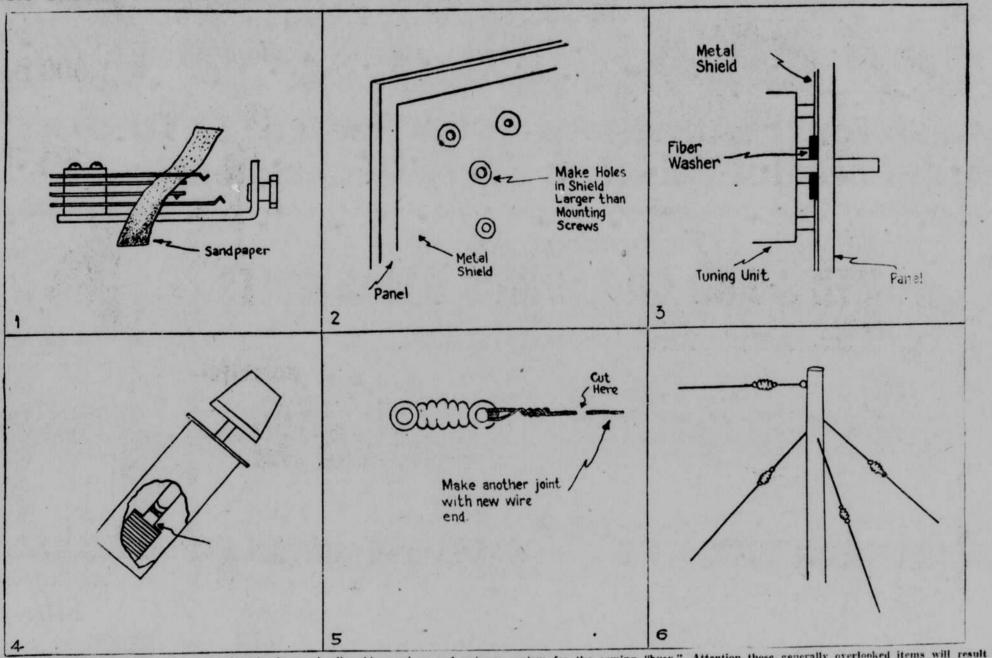
I Stood on Tiptoe on a Little Hill"

Beecher \*Goodnight Loraine Dickerson

"Water Lily" Lois Longley ... McDonald them loose. Good contact between "Spoon River" Midred Torpy drawing arms may be had by "Romande" Sibelius Grace Changstrom Martel Mary Alice Kirtley

Helen Bethard ..... Grieg "Te Spring"

Sets Should Be Overhauled for the Winter; Corrosion, Dust, Loose Contacts Cut Down "Pep"



Six precautions which the set owner should take in overhauling his receiver and antenna system for the coming "busy." Attention these generally overlooked items will result in ward paving for graveling four harvested would run over 15 pounds reased "DX" and put apparatus in best working order.

the past months will be storing it must not be worn flat. away and turning to our old winter

Time of the club.

WMC. Memphis Commercial Appear

(500), 8:30 classical.

CKAC. Montreal (425), 7:30 concert.

Time of the radio fan and the of the holes, leaving a space about buckles (Fig. 6) placed in the guys punctuated their remarks. They were assist in keeping the aerial under the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dime unshielded around junking of a god set which needs the size of a dimplementary of a god set which needs the size of a dime unshielde

Ordinary Dusting Not Enough. Oakland (212), 10 trie, football should be thoroughly cleaned. Several

jected to some mechanical shock about which you know nothing, and if the wiring has been injured you may burn out a tube or two as a consequence of a short circuit. If the set has been stored in too warm a place, any surplus soldering paste which may have been left under a terminal or a lug will have melted and possibly caused corrosion. Again,

Plane solos:

(a) "Romance"

(b) "Valse Arabesque"

(c) "Romance"

(d) "Valse Arabesque"

(d) "Valse Arabesque"

(e) "Bromance"

(f) "Valse Arabesque"

(f) "Valse Arabesque"

(g) Lack

(g) Romance Arabesque (g) Lack

(g) Romance (g) R Plane solos:

(a) "Tarantelia" Karganoff densers greatly alters their capacity (b) "C Sharp Minor Prelude" Rachmaninoff tance values and consequently their Rachmaninoff tance values and consequently their efficiency in the circuit for which be resoldered to the shafts before they are capable of being put to hard ... Nevin of tube sockets should be removed from the sockets and filed until they present a shining surface. This in-... Nevin sures against a high resistance layer

"Nocturne"

"Nocturne"

"Rogene Anderson

"Country Gordens"

"Maiy Agnes Marshail

Boprano solos:

"A) "The Bird of the Wilderness:

(a) "The Bird of the Wilderness:

(b) "If I knew You"

"Water Lify"

"Water Lify"

"Water Lify"

"Nocturne"

Rogene Anderson

Grainger

Good contact at this point is especially important in the grid circuit.

Renovating Jacks.

Telephone jacks should have the assembly screws tightened, because temperature changes and tension and stress of wiring s drawing a piece of very fine sandpaper through the arms, as shown

(b) "A Watteau Paysage"....Godowsky Tenor solos:

(a) "Little Star"

(b) "Refreat.

Alice Nixaon

Alice Nixaon

Alice Nixaon

Litat

Topichinelle

Pelen Majore

Sapelinikoft

Virginia Wilcox

(a) Alit-Wien

Godowsky

Tenor solos:

(b) "May Night"

Palmeren

Alice Nixaon

Litat

Litat

11:15 p. in. Weal fredic by Frank

Hedeld, ir. and his Omaha Nightingales, transmitted from Wowl roost at Rose

(a) Alit-Wien (a) "Valcik" Mokrejs
(b) "May Night" Palmgren
Alice Nixaon

abrasive side tward one arm, and If you have not used your arelal

spring arms are usually of silver, a inspect the insulators, joints and uilt a portable receiver for comparatively soft metal, and these guys. If the wire be badly corroded. If your set has the panel complete new.

KENF. Shenandoah, la. (266), 12:25 to away and turning to our old winter ly shielded, each instrument should likewise 1:15, regular nonday concert; 7:36 to 5, standby.

At all events many radio fans will be individually tested for shorts to be replaced. All the intac insulators concert; 10:36 to 12, request program.

At all events many radio fans will the shield and ground. If it has not should be washed clean of dust and ly shielded, each instrument should Cracked insulators should likewise

9:30 orchestra.

WEAP, New York (492) 6 boys, 7:15

woprano, 3:15 violin, planist; 9:10 orches
be done away with.

with a shown in Figure 2. Now the instruments may be remounted.

From the foregoing it is easy It is not sufficient to wipe all the mounting screws, as illustrated by the in a set which has been "carefully" bang. Every one of the students He was a law partner of Judge Colby orchestra.

WJZ. New York (155) 9:30-10:30 or
visible dust from the interior of the side view in Figure 3.º With the shield stored for the summer. An automojoined in shouting:

1:18 recital. 8:15 concert, 2:15 dance. and, because of the greater of the greate Kaybee, 6:45 popular sons, 7:30 soprano, duced signal strength. Dust furnishes cuperative strength, they will not per-artists. Providence (350), 6:05 musical. Shorts and by-passes for radio fre-WJAR, Providence (350), 6:05 musical. Shorts and by-passes for radio fre-KPO, San Francisco (423), 10 orches quency currents. All wiring should be gone over in bered that the plate circuit voltage "B" BATTERIES case some unknown accident may have happened to the set while it was in disuse. It may have been subjected to some mechanical shock may not be dead but may produce

in Fig. 1. The paper should be drawn annoying and cause dial readings to Pep" Broadcast

the set once with it toward the other. Do all summer and have allowed it to not draw the paper through repeat- hang grounded, it would be a safe, The contact points on the plan to follow to lower the aerial and it would be best to replace it with

WGR. Buffalo (219), 6 music, 6.39

At all events many radio fans will be resuming their pastime of listentiating for the should be washed clean of dust and simple should be washed clean of dust and The rooters filled the theater from the class of the stage to gallery, and their cheers filled the theater from the condition of the wire, caused by its being bent backward and for the shelding through the sharped form the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire, caused by its being bent backward and for ward so frequently. Inspect the softened condition of the wire and ward so frequently. Inspect the softened condition of the ward so frequently. Inspect the softened condition of the ward so frequently. Inspect the soft

From the foregoing it is easy to see as they had never cheered before. fiber washers over the shafts and trouble may be found and remedied the rally, and it went over with a set. Every instrument composing it grounded, the set will be freed from bile which has been in storage for Yea, white! Yea, Central! Yea, fight!" many extraneous noises and from some time must be thoroughly over. The cheers were led by Harlan Wiles, should be thoroughly cleaned. Several should be thoroughly overtakes; 12 dance, soloists.

WAAY, Oak Park (283), 6:45 soloists, small, soft, clean cotton cloths and body capacity.

Some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program; some time must be thoroughly overhauled and returned before it will optomic for dusting the program of t

set for which you cannot account, it the high school, would be highly advisable to inspect A poem lauding the school was carefully the terminal connections read by its author, Wilma McFaron your "B" batteries and also any land. connections between "B" batteries, no end of trouble in your reception.

Reck with your cheers in a loval mass. as corrosion at this point will cause

Bee Want Ada Produce Results.



BACK THE Kant-Blo signal is easily installed.
Simply takes the place of either the ordinary push-pull "A" Battery Switch or one "B" Battery Binding Post now on set.
Kant-Blo Signals—both Binding Post Style and Switch Style—are at all the best radio stores. If your dealer is out of stock IF YOU BLOW A TUBE When your Radio Set is Equipped with a

radio stores. If your dealer is out of stock send us \$2 for a Kant-Blo Binding Post Style, or \$3 for the Switch Style, and we will ship any number of KANT-BLOS direct to you, charges prepaid. Kant-Blo SIGNAL WOOD Lights on any Short Circuit GANIO - KRAMER CO., Inc., New York

Only one Kant-Blo needed to protect any number or any kind of radio tube APEX RADIO CO., lnc., 503 Fifth Ave., New York FEDERAL RADIO CO. 316 South Street

by Central High Hall, Horral

Rooters Enthused to High Enthusiasm on Eve of Tech Game.

'We Will Always Boost for Central.' Other speakers who kept the students "on their toes" were Ralph Campbell, Arnold Cisler, and Beth Cole, president of the student council. After the meeting the rooters joined in a long parade, led by 60 automobiles, and did their best to

If there are undue noises in your with their yells as they marched to

The poem follows:

### A Radiola For Christmas

He Doesn't Want Judgeship

tioned for the district judgeship as

successor to Judge Colby, has an-

nounced that he is not a candidate

for the place and does not want it

**VESTA** 

Radio Storage

**Batteries** 

Hold Their Charge

Both

"A" and "B"

Omaha Battery

Company

2\$12 Harney St. AT 3394

A Radiola will transform the ong winter nights into short hours of concerts, speeches, bed-time tories and late news. A Radiola will bring happiness throughout the entire year. Buy a Radiola for the amily gift.

### Radiola III-a

give excellent results. This outfit includes four WD-11 Radiotrons. headphones, and Radiola Loudspeaker. Every-thing except antenna and batteries. Come in and let us show you this set. Complete outfit

\$90

All Radio Sets Are Sold on

Nebraska Power 6.

#### INTERNATIONAL RADIO TEST WEEK

cluding Sunday night, according to Arthur H. Lynch, editor of "Radio Broadcast," and Hugh S. Pocock, edi tor of "Wireless World and Radio Review," London, who have made the tions in North America and Europe respectively.

American broadcasters will broadcast iod European stations will remain si mander of the Legion. lent. The North American broad casters include 44 stations in Canada, day's work of the high school was practically all of the stations in the given, periods were only 20 minutes. United States, the four Mexican stations, those in Cuba and Porto Rico. how the school machine works. Nine big radio broadcasting stations Eighty six visited this session on the European continent will in turn open international radio week at given by the high 11 o'clock, eastern standard time, the Smith and Richard night of November 24, and broadcast special talks on value of home educa special programs in several different tion and the meaning of the con languages for a period of one hour, stitution. Dr. E. E. Boyd, representin an effort to reach the American ing the American Legion, was the listener-in. On the next night, No-wember 25, the European program About 425 parents visited the school stations throughout the remainder of committees.

#### York Board Awards

Graveling Contract York, Nov. 21 .- At the recent meetthis company was lowest bidder. One of the beets weighed

#### Burlington Constructs Modern Depot at Sidney

Bridgeport; Nov. 21 .- The \$15,000

### **Visiting Features Education Week**

Parents Brought Into School and School Into Home at Central City.

Central City, Nov. 21.—Much acduring education week, parents being broadcasting arrangements with sta brought into the school and the school into the home

Monday and Tuesday after 4 o'cock On each evening of this week from teachers visited the homes. In all 216 0 to 11, eastern standard time, North homes were visited. Cars were provided for the teachers by the Lions especial programs for the benefit of club and American Legion, under the European listeners, during which per direction of John Reynolds, com

Wednesday affernoon the whole Thursday a special program

will be broadcast by stations of the during the week. Work was exhibted British Broadcasting company, who in all the buildings. The education will alternate with the continental week project was managed by student

#### Sugar Beet Record Scored by Grower at Minatare

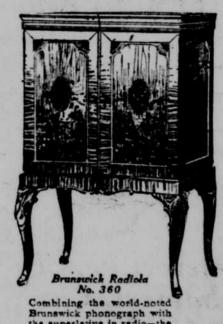
ing of York county commissioners, sugar beets off 3.7 measured acres it was voted to give the contract for of ground, with an average sugar the graveling of the S. Y. A. road content of nearly 17 per cent, were from York east to the county line to grown by E. K. Eleland of Minatare Allied Construction company, this year. This is considered a rec-This is gravel project number 56 and ord for even this part of the country There will be a three-inch gravel sur- pounds, after being out of the ground face. The board voted also to ask a day and a half before its weight for state aid in the sum of \$300 to was taken, and many of the beets each in weight,

#### Odd Fellows Make Surprise

Visit to Grand Master Burlington depot at Sidney is com- from all the subordinate lodges in While whose purity to Central shall rule.

For a Centrallie never must fall:
The purple that means all thats truest and best
That white of a brightness that dims all lower story. It is built of green stucco and has been under construction five months.

Here's to the school whose



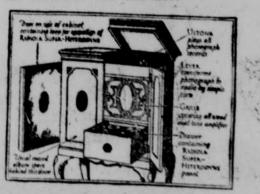
## Exchange Your Phonograph for a

### Brunswick Radiola

The instrument that can be moved from room to room, that requires no connections or out-

Amazing selectivity, permitting you to "cut out" what you DON'T want to hear and PICK OUT instantly what you do.

> Your old phonograph will be taken as first payment and then convenient terms on the balance.



Every instrument is guaranteed by Orchard-Wilhelm Co.

## Orchard-Wilhelm

SIXTEENTH AND HOWARD STREETS