GOOD NEWS ABOUT RCA RADIOTRONS

JULY

VOLUME I

IT'S HERE!

THE new RCA Radiotron Broadcast Station Directory is here, awaiting your order to go to work for you! It gives the biographies and pictures of 22 well known announcers as well as the latest list of radio broadcast stations.

America's foremost radio columnist, Charlotte Geer, is co-author. Her personal knowledge of most of the announcers enables her to make each page just teem with human interest. You'll like it!

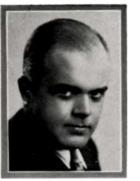
This is the Radio Station Directory your customers have been looking for. It will carry your name and your message, as well as a message on RCA Radiotron quality, into the homes of your customers and potential customers. Order now !

Price \$2.50 per 100, Imprinted

Send your order to the RCA Radiotron Company, Inc., Harrison, N. J.



wis Reid



Phillips Carlin



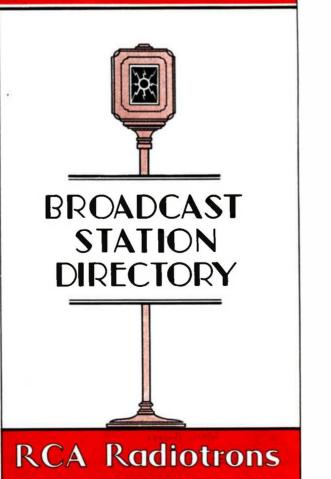
Graham McNamee



John Gambling



Frank Knight





John & Young



Ted Husing

GOOD NEWS

About RCA Radiotrons

ULY Ν T Ε N T S FO R 0 J С 9 1 3 0

NUMBER 5 25 Cents A Copy

25 Cents A Copy-\$2.00 A Year

VOLUME 1

We Owe It to You . By W. T. L. COGGER, Vice P							2
Dont Figure on Luckl By A. L. LEVINE, Arrow Elec							
The Beby Steps Out	•	•	•	•	•	•	6
Tuning In With J. W. McIv Sales Promotion Manager, R						•	8
They Always Come Back to By Milt GROSS	o RC	A R	diot	ons	•	•	9
The Iron Horse Adopts R By H. M. Shas, Executive A							10
Even the Humble Bulb is Another Assurance of							

Heunting Streins that H By J. J. Wilson, Sales P Co., Inc.							•	14
The Earth's Four Corner	5	•	•	•	•	•	•	16
We Point With Pride	•	•	•	•	•		•	17
Not So Long Ago	•		•	•	•		•,	18
Evolution of the "Mike By C. W. HORN, Genera			лвс	•	•	•	•	19
Radio Tonics By G. Gerard Clark at					•	•	•	20
Service Slants—that Build Sales								
Make It Inviting	•	•	•	•	•	•	•	24



A Binder for GOOD NEWS

Many of our readers have asked for a binder in which they could keep GOOD NEWS for future reference. We now have such a binder available, as shown in the illustration, which will hold twelve issues.

This binder is bound in black imitation leather and stamped "GOOD NEWS" in the center in gold letters. The issues are held in place by an ingenious arrangement of wires, consequently, it is not necessary to punch the magazines.

Send in your order today to the Sales Promotion Dept., RCA Radiotron Company, Inc., Harrison, N. J., and a binder will be sent to you at once. The price is \$1.

A magazine of radio merchandising counsel to help distributors and dealers of RCA Radiotrons make more profit. Published Monthly by RCA Radiotron Company, Inc., Harrison, New Jersey

Permission to reprint articles in this issue is cheerfully extended, provided proper credit is given. Copyright, 1930, by RCA Radiotron Co., Inc.

T. F. Joyce	H. W. BAUKAT	H. M. RUNDLE	R. S. BURNAP	W. W. CONE
Manager	Editor	Art Editor	Engineering Editor	Circulation Manager
J. W. Mclver, Chairman	G. C. Osborn	EDITORIAL ADVISORY BOA MEADE BRUNET W. T. L.		IOMPSON F. B. WANSELOW

We Owe It to YOU--

And to the Consumer to Produce Quality Tubes Which Will Justify Your Faith in Us



W. T. L. Cogger is unquestionably the most experienced man in the manufacturing end of the tube industry. Under his supervision were manufactured the first commercial tubes by the General Electric Company. Mr. Cogger's contributions to the machinization of the industry have been many and varied. Under his able direction consistent progress can be expected in improving RCA Radiotron quality—already the acknowiledged standard of the industry—and manufacturing methods.

ANY dealers have the idea that they and the manufacturers have not much in common. They consider the manufacturer as an organization which converts raw material into a product for them to sell.

Once the manufacturer has fabricated the materials, these same dealers —and, in fact, some manufacturers think that there the manufacturer's responsibility ends. It doesn't.

The manufacturer's responsibility does not end until he has fabricated the best product possible from the finest materials available and then follows through to make certain that the user of his product is satisfied.

The RCA Radiotron Company's manufacturing activities, lying as they do between research and development fields on the one hand; with sales and distribution functions on the other,

By W. T. L. Cogger Vice President in Charge of Manufacturing RCA Radiotron Company, Inc.

afford a great opportunity to render all the services connected with a quality product to the entire trade.

Working back to one unit and forward to the other, the manufacturing division receives from the research and development section ideas and suggestions for commercialization and from the sales group all the essential information regarding distribution service.

The manufacturer's identity in the product recognized by the trade is quality. This is not only the tangible factor resulting from proper control of materials, labor and supervision, but also the dedication of every effort to advance the art and create higher standards.

57 of 91 Known Elements Used in RCA Radiotrons

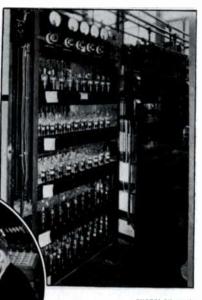
The materials which go into RCA Radiotrons are carefully selected. No amount of skilled labor can transform inferior materials into a superior product. If a high quality product is to be made, high quality materials must be used in its fabrication.

The finest raw materials are used

in the construction of RCA Radiotrons. In fact, many materials were scientific rarities until the demands of our factories made them commercially available. For instance, under present existing conditions 57 of the 91 known elements are used in the manufacture of RCA Radiotrons. This, coupled with the small size of the tube, makes one realize what a really complicated and specialized product an RCA Radiotron is. It can safely be said that in no other product are so many of nature's elements used.

Stabilized Production Assures Skilled Workers

In making RCA Radiotrons, we employ only the highest type of skilled labor. Each one of these workers is justly proud and jealous of the reputation of the product she is making.



One of the many places RCA Radiotrons are tested. This is a life test rack for 227's

On testers such as this RCA Radiotrons are examined for possible defects The majority of them are experts in their particular line. By our planned system of stabilized, consistent, allyear-round production, we are able to keep the majority of our workers steadily employed twelve months of the year. This results in their putting

forth constant effort to improve quality. They know that if they do good work they'll undoubtedly be on the payroll next week, next month, next year.

Comfort of Workers

We have also found that in protecting our workers' health, we protect our product. At all of knowledge of all things which come under the responsibility. For this purpose we have in our factories a group of experienced executives. In addition to this direct supervision of production. there is the necessity for engineering supervision. This requires a special only abreast but ahead of the field, set engineers are provided from time to time with improved and new tubes. These give set manufacturers an incentive to create better sets which will fully utilize these advances in tube design.

Quality the Keynote

Quality, of course, is made the keynote of the RCA Radiotron Company's manufacturing policy. It is our earnest desire to instill in every dealer the feeling that he is handling a product which is really worthy of his recommendation. It is not enough that we be able to sell tubes to the dealer;



Part of the well equipped hospi-tal which protects the health of our many workers



PHOTOS BY GATNOR



tional plan of the Newark and Harrison Plants

One of the many corners of the factory set aside for the recreation of employees

our plants we have complete hospital facilities, a restaurant under the direction of trained dietitians, and a traveling nurse who looks after the welfare of our workers' families.

In two of our factories centralized radio systems give the workers many hours of enjoyment during the day. A short distance from the Home Office we maintain a country club, up in the mountains where they can enjoy golf. tennis, picnicking, dancing and a cool dip in a large outdoor swimming pool.

Nothing is overlooked which might add to the comfort or make the working hours more pleasant and more productive for those who are producing RCA Radiotrons.

All these things have a positive effect in maintaining RCA Radiotron quality.

Expert Supervision a Vital Necessity

Even skilled employees are at a loss without adequate expert supervision. Ability to supervise implies a complete

staff of engineers skilled in the application of the fundamentals involved in the design manufacturing of RCA Radiotrons. To this staff falls the problem of maintaining quality and of constantly striving to better it.

RCA Radiotron Laboratories Always Ahead of the Commercial Demands

In addition to the organization needed to control the normal supply of materials and activities of labor, there must be another organization of proven ability to cope with the normal variations which always confront the tube engineer. These are the variations of improved design and advance in the art. The problems that confront the radio tube engineer are quite often in advance of the scientific knowledge in ordinary commercial use. Thus, in order to discharge its obligation of building the best product it is possible to make, the RCA Radiotron Company has to be constantly doing intensive research work. By keeping not

the dealer must be able to sell them to his customers with complete confidence as to their quality.

Maintaining uniformity of quality is a task which requires incessant vigilance. From the time the raw materials are received until the product leaves our warehouses, constant inspections are necessary. Of even more impor-'tance than inspections, is the necessity for having imbued in the employees so strongly the desire to build good tubes that they can't knowingly build a poor tube without hurting their conscience. That's what the RCA Radiotron Company possesses, and it is one of its greatest assets.

We have a definite obligation to you and to the consumer to produce the best tubes possible. We are justly proud to measure our success by the confidence and satisfaction with which the consumer today receives RCA Radiotrons, which has led to undisputed leadership. in ser den de la companya de la comp

Don't Figure on Luck!

Build Your Business Firmly so You Can Ride Out the Storms of Depression

By "Al" Levine

Arrow Electric & Radio Co., Jersey City, N. J.

URING the six years I have been in the radio business there have been big ups and downs. But through it all, my business has shown a steady increase in sales and profits.

People tell me l'm lucky lucky nothing! Every business man can be compared to a golfer. The golf champion doesn't worry about his opponents. He just plays to par. So do I. What the man across the street does is of little interest to me.



The store exterior showing the immense neon sign and other eye-catching methods of attracting attention and creating a favorable impression

The trouble with most dealers is that they are forever indulging in "business condition" propaganda. My contention is that "conditions" don't exist for the radio dealer who is working along the right lines.

Every dealer should have sufficient intelligence to foresee the natural effects of major movements in the general business structure. Seeing them, he should plan for them.

As an example, what gave more warning of its approach than the radio



The store interior lives up to the Arrow Electric & Radio's slogan, "One of America's Most Beautiful Radio Shops"



Three of the seven uniformed service men who build good will and sales

set break last season? No one needed an expert to tell him that prices were going to drop and that newer and less expensive sets would flood the market. I got rid of my sets quickly. I took a loss it's true, but it was slight compared to what it might have been had I waited longer. But I was in a position to restock with the new merchandise and the profit that I made on it quickly offset my losses. It gave me a chance to clear out all the dead wood and junk that had accumulated on my shelves.

> Many dealers spent their time spreading propaganda to the effect that something shocking had happened to business. Instead, they should have mentally scourged themselves for their deplorable unpreparedness to take advantage of perfectly natural and logical business sequences.



The entrance to the Arrow laboratory where difficult radio and electrical problems are solved by experts. This is in full view of the customer

I remember my teacher in school telling me, "If this is the first time you have made that mistake, I shall overlook it, for it is not discreditable to make a mistake—once. But when you repeat a mistake it ceases to be a mistake, and is simply a bonehead play!"

This simple dictum has been recalled many times in my radio career.

Do More Advertising

Our problem now is to build anew and, if possible, to build more firmly than before. Radio dealers who wish to - tomers frequently-very often they

stay in business will have to work harder than ever. In this effort they will find advertising an indispensable part of their sales development program.

In a broad analysis, the function of advertising is to accelerate business in the face of changes that are constantly going on. It isn't as though we radio dealers had to bear the brunt of paying for all the advertising.

That's where I tie-in with makers who use plenty of national advertising. Seasons for radio are getting to be a

thing of the past. Now people listen-in all the year 'round.

I think that people listen-in even more in the summer. They hate to get all dressed up and go to a show. They'd rather sit around in the cool house in some comfort. able, light clothing and get their entertainment by radio.

I have found that consistent. vear 'round ad-

vertising is necessary to stabilize retail

business. I advertise the year 'round in

newspapers, by car cards and direct mail. The many buses that pass my

store all carry a car card of mine. The

Service Men Check Sets in Summer

the load during the summer. I have

three trucks and seven service men who

have been with me for many years. The

men are more than service men; they

My service department takes over

results speak for themselves.

are really service-salesmen.

One of the three service trucks that speed the service that keeps Arrow Electric & Radio customers satisfied

make as many as twenty calls a day! They are all young, efficient, and look very snappy in smart, well pressed

> uniforms. If they come across a particularly knotty problem, they bring the radio set back to the store where we have a well equipped laboratory with a radio specialist in charge.

They are happy in their jobs and are eager to find new customers. They are never laid off. I keep a complete crew all the year 'round. That gives me confi-

dence in my crew. I know that I can depend on having all the skilled help I need, ready at

all times. I don't regard my service men as an expense. They more

than support themselves even when business is considered slow.

Each man has his own district. Customers have a lot of confidence in a service

Uniformed Service Men Suggest Complete Renewal of Tubes

Customers feel flattered when a snappy, uniformed service man calls on them, and they respect his advice in radio matters. When the service man suggests a complete renewal of tubes at least once a year they listen to him. (That is where the big money in the tube business is-in the tube renewal market!) It's easy for the service man to explain that all the tubes must be of equal strength-that one weak tube will mar the performance of the restand that the best way to insure the set against distortion is to start all the tubes off at once!

When you figure out how many radio sets there are in three counties that my business covers-and that for every radio set there is approximately \$15.00 worth of tube renewal business a year --- it's no wonder that I do a nice tube business! And it's steadily increasing.

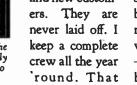
But remember, it isn't luck. It's careful, intelligent planning and hard work that bring results.

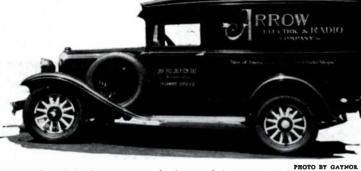
UNIFORM SERVICE

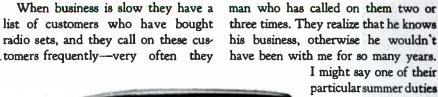
EXPERT ADVICE REGARDING THE RADIO BEST FITTED FOR YOUR PURPOSE AND

UNIFORM SERVICE ALWAYS AVAILABLE

Cars and buses carry Arrow Electric & Radio Company's ads. Note the repeated use of the uniformed service man







particular summer duties is given over mainly to building good will. And there isn't a better business getter than good will.

I get customers from over three counties mainly through the fact that people know that from me they'll get the finest service with their radio set.

A consistent insertion of newspaper ads in the local papers has contributed immeasurably to the success of the Arrow Electric & Radio Company in Jersey City

SCTOR

The Baby Steps Out



A close-up of part of our booth showing the panels which told the story of our sales and advertising plans

ROM amidst the roar of the waves, the clatter of feet on the boardwalk, and a series of interesting and helpful activities, the RCA Radiotron Company rose like a meteor in the night and, despite its youth, scored a successful and impressive appearance at the recent Radio Manufacturers' Association Trade Show held in Atlantic City from June 2 to 6. The entire effort of the Company was directed toward making the dealer more comfortable and his stay more pleasant. Dignity, forethought, and courtesy, not sensationalism, were the keynotes of the RCA Radiotron Company's success.

Our displays and demonstrations, however, were not lacking in impressiveness and importance. Each one of them was the product of considerable thought and careful planning, and judging from the comments of the visitors, they were also unusual successes.

On the ocean side of the boardwalk, twenty-four loudRMA's newest member, the RCA Radiotron Company, startles Atlantic City with unique and well planned features



Opinion granted that the RCA Radiotron display was one of the few at the show which had messages for dealers and jobbers besides showing it to be the work of experts

speakers were mounted, one on every other post, thus covering more than a mile of boardwalk. These speakers were

housed in huge metal castings shaped like helmets and were sufficiently powerful to be heard distinctly by the hosts that continuously crowded the boardwalk. Each evening, just prior to the regular presentation of Floyd Gibbons and Amos 'n' Andy, the crowds were brought to an abrupt halt by announcing



Every night the crowds were given a treat through the centralized radio system which brought to the boardwalk, through the courtesy of Atlantic City and the RCA Radiotron Company, the broadcast of Floyd Gibbons and Amos 'n' Andy

This is what happened when the speakers along the boardwalk were turned on

that two of radio's most popular features were about to be brought to them through the courtesy of the RCA Radiotron Company and Atlantic City. Interested crowds heard the rapid fire conversation of Floyd Gibbons and the slow drawling of Amos 'n' Andy.

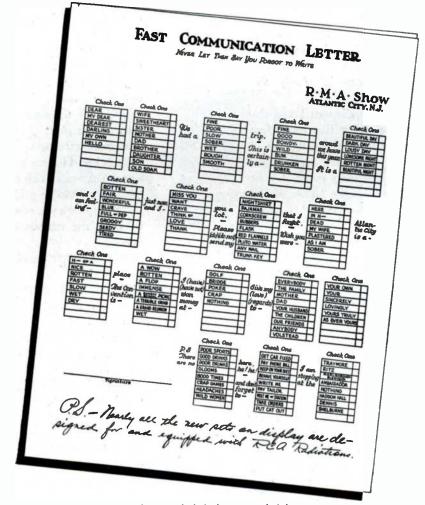
On every fifth post covering a distance of approximately three miles a cut-out of a gigantic RCA Radiotron was mounted together with a red and black banner inviting the crowds to listen to Amos 'n' Andy and Floyd Gibbons every evening. The intervening poles were decorated with banners similar in design to those accompanying the loudspeakers. They read "Atlantic City Welcomes RMA June 2 to 6."

Booth Attracts Widespread Interest

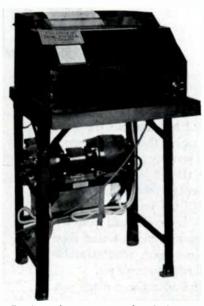
The booth, too, attracted considerable attention. Considerable forethought and planning were necessary to bring the many dealers and jobbers who constantly crowded the world's largest auditorium to the display. However, the plans were unquestionably successful, and a constant stream of enthusiastic dealers poured into the RCA Radiotron exhibit to take advantage of the many conveniences it offered and to be told swiftly and interestingly the story of RCA Radiotron leadership. In the booth the merchandising activities of the company were told in short, concise messages.

Humorous Letters Find Appeal

Fast communication letters were provided for those who found it impossible to write home, together with pens, ink, stamps, envelopes, tables, chairs, and a mail box. From the beginning to the end, each feature was carried through with precision; every need of the dealer was anticipated and fulfilled.



These fast communication letters, which had a map of Atlantic City in colors on the reverse side, as was published in the June issue of "GOOD NEWS," were sent out by the thousand



For those who were interested in the latest news and stock prices a Dow-Jones ticker was installed

A Dow-Jones news ticker kept pouring its never-ending stream of news flashes and stock reports into our booth through every day of the convention. Most of the time it was surrounded by interested groups. It was just another convenience for our guests.

Dealers Enjoy Comforts of Home

At headquarters in the Traymore Hotel everything possible was done to make the visiting dealer feel at home and at ease. New and rather unique inventions by RCA Radiotron engineers featured the display in the suite and each of them proved exceedingly popular and entertaining. The dealers were all in accord concerning the development that detected lies when a customer brought in an old, worn out tube for replacement and the set that threw the tubes out of their sockets when a false note was struck and agreed they should be in every radio store in America.

Giving the visitors the information they wanted, without pills, made the RCA Radiotron debut a most successful and appreciated one. Dealers everywhere commented on the efficiency of the organization and the giant tube at the Traymore. The loudspeakers on the boardwalk, and the booth at the great convention hall will prove a decidely pleasant remembrance for many dealers in the days to come.

TUNING IN

IF I tell you that the automobile that I make is good, and you buy one, and you find **§** out that it isn't good, you'll never buy another one.

If I tell you that my apple pies are good, and you try them and find out that they are not good, somebody else will sell you apple pie.

If I advertise and tell you that my service is good, and you find out it isn't good, I will soon cease to exist.

If we are to live, we must fulfill our promises. Every advertisement, every sales talk, every expression, is a promise.

This does not disturb me, because anybody who is anybody knows that if anybody's business piles up, he must be fulfilling his promises.

Also, you will find the successful people are never afraid to face the facts; so let you and I face a few.

Up to and including the time of this writing we have called on nearly 2,000 dealers, studying the way radio tubes are sold and what can be done to present the possibilities of the tube renewal market.

So far, our earnest and sincere young seekers of the facts have found 625 dealers, selling radio tubes, of which only 272 have shown any evidence of any advertising supplied by the manufacturers of tubes, in other words to any given millions of customers 353 of these retailers register their stores as anything but a place to buy tubes.

The first—very first—idea in any selling plan is to tell people that you have something to sell.



With J. W. McIVER

During the time of the calls, only 131 of the 625 dealers showed any indication of tubes in the windows of their stores, and only 21 of these 625 had any prices on radio tubes,

Dealers are just beginning to realize that tube renewals can be money; that they are reminder purchases.

+ + +

T O an old experienced merchandiser that word "reminder" means a lot. It means that we cannot expect a customer or prospective customer to remember during the middle of the day that he will need tubes in order to hear Amos 'n' Andy that night.

Smart salesmen know that there is not that much foresight in all the customers. A good merchant must remind his customers every day because he never knows when a good tube will end its useful life.

We need good merchandising sense—and good salesmanship. One man said to me, "I have never looked at Radiotrons that way."

It's just a platonic friendship.

• • •

NOT long ago I watched a medicine show faker selling a cure-all tonic. My long distance analysis was that the concoction was paregoric and water. However, this fellow put on a great show. He gave a learned dissertation to an open-mouthed mob on the fact that his tonic had no salt in it. That was the sum and total of his sales argument—NO SALT.

He asked the crowd if anyone had ever tasted perspiration.

"Yes," yelled the perspiring mob.

"What does it taste like?" "Salt," answered the victims.

"Then you don't need any more information as to why it is important not to add to what your body is trying to get rid of."

Then that bird stood up and sold a TWO CENT concoction for one dollar a bottle. And the only sales talk he ever gave the purchaser was that there wasn't any salt in it.

Just recently, a smart merchandiser who became disturbed over the success of a rival filled a giant glass bowl with clear water and put it in his window. On this he put a sign which read: "This bowl is filled with invisible gold fish."

Twenty cops were required to keep the curious crowd moving.

N RCA Radiotrons we have the best radio tube

that the best brains and the best hands can make. Experienced, money making

merchandisers stop and pause when dealers fail to recognize the line to push.

The first law of merchandising in existence since Eve sold Adam the crabapple, is to let people know what you have to sell and—as the scarab said to the ant, "It's not what you have, but the way you use it."







They Always Come Back to RCA Radiotrons By MILT GROSS



The Iron Horse Adopts Radio

The Modern Luxurious Pullman Finds Radio an Additional Comfort to Passengers

By H. M. Sims

Executive Assistant, Great Northern Railway

"RADIO on trains? Bunk! It isn't practical and the passengers don't want it!"

It wasn't long ago that a good many railway officials held that opinion.

But today, to quote J. C. Rankine, who had general supervision of the selection and installation of the radio equipment on the Empire Builder, and is assistant to the operating vice president of the Great Northern Railway, "a crack train isn't such if it hasn't radio equipment!"

As A. J. Dickinson, passenger traffic manager of the Great Northern, puts it: "After trying out radio equipment for a year on our deluxe transcontinental train, the Empire Builder,

> we are now equipping the fine Oriental Limited with radio sets. That

Back in 1871 they didn't have trains equipped with radio but they did have sport shooting buffalo from the western line of the Kansas Pacific Railroad PROM PRAME LIPILI'S ILLUMERATED MEMORER, JUNE 3, 1871 shows how successful we have found radio in our passenger service."

A New Advertising Medium

The Great Northern, which operates from Chicago to the north Pacific Coast cities of Seattle and Portland, has made a particularly careful study of radio, not only for use on trains, but as an advertising medium.

It was the first American railroad to go into national radio advertising, and it is still the only American (United States) railroad sponsoring a program on the national networks. Its weekly programs over the National Broadcasting Company's coast to coast



The crack flyer of the Great Northwestern Railways, "The Oriental Limited," which has added a special radio-music room to its many features for the comfort of passengers



network have been running for two winter seasons now, and its "Empire Builders" has become one of the best known dramatic features on the air.

"When we inaugurated our new fleet of Empire Builder trains from Chicago to the North Pacific Coast a year ago this summer," said Mr. Dickinson, "we determined it must offer the traveler every possible convenience and pleasure. Accordingly we installed a combination radio and phonograph set in every observation car.

Convinced the Skeptics

"At first there were quite a few who were skeptical concerning the value of radio equipment. 'Our travelers who go into the observation cars to lounge or read want quiet,' these men argued. 'They won't like a radio going all the time.'



No need to miss special radio features, stock reports or other broadcasts in these days of modern transportation

"Of course, the passengers on any train are a diverse group. There are old and young, music lovers and non-music lovers, jazz fans and jazz haters, persons who want quiet and persons who want pep.

"Recognizing this, the Great Northern built its observation cars with a semi-enclosed music room for the radio set, so that passengers who do not care to listen can enjoy themselves in other sections of the car.

"Those who want to hear the radio gather in the music room. The pro-

'break the grams ice' among these passengers, and stimulate a comfortable, homelike feeling. They provide a common ground for conversation and discussion. The friendly feeling thus generated promotes also a considerate use of the set by whoever is operating it, resulting as a rule in a variation of programs to suit the majority of the listeners."



O WORLD-WIDE PROTOS

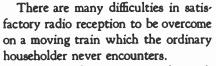
Sir Henry Thornton, President of the Canadian National Railways, talking to Secretary Robert P. Lamont at Washington, D. C., and then with an aide in London, Eng., as he traveled over the plains of Ontario, Can., on the International Limited at a speed in excess of 80 miles an hour

Special Music Cars Built

"We are so well satisfied as to the desirability of equipping our transcontinental trains with radio that we

have decided to install sets in the observation car of the Oriental Limited as well, even at the expense of remodeling the cars to provide a music room.

"As there are seven trains in the Empire Builder fleet and eight in the Oriental Limited fleet, this will give



However, from a technical standpoint, our results have been fully as satisfactory as we expected. A radio set installed in a train is situated above a large mass of heavy metal, which helps make up for the imperfect grounding offered by the rails. We use a wire antenna looped about the car roof, giving approximately 120 feet of antenna.

It is surprising how much difference in reception is caused by geographical features of the country. If a train

merely runs through a cut with the sides on a level with the top of the cars, there will be a noticeable diminution in volume.

A high bluff will shut down volume immediately, and mountains likewise disturb reception.

There are some stretches in Montana and in the mountains where it is difficult to bring in any station satisfactorily, and for these spots we have the phonograph combination, which permits high class record music when it is wanted.

Radio has pleased our passengers. We are con-

vinced radio should be an important part of the equipment of any deluxe train. The passengers want it.



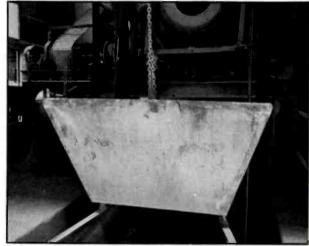
Here we have the "seven" Clockers, a commuter's club which comes from Philadelphia to New York every day on the Reading. Atwater Kent equipped them with a model 60 set and it is proving a great success

us radios on fifteen trains operating between Chicago and the North Pacific Coast."

Even the Humble Bulb is Made With Craftsman's Ski



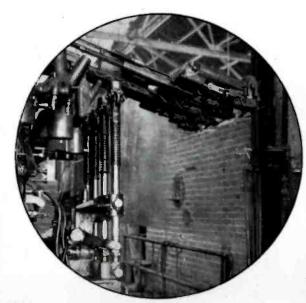
Specially constructed freight cars swiftly transport the silicon sand



The forever busy mixer of carefully proportioned glass ingredients



The entrance to the inferno wherein the many batches of raw material are fed



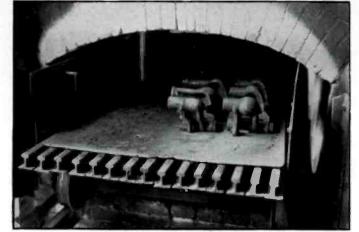
Simultaneously four arms swiftly extract the molten glass from the furnace



One of the eight automat It turns out as many



Every bulb is checked and do specially light



Each mold rebaked for twenty minutes after being relined to insure perfection

ill—Another Assurance of RCA Radiotron Quality



This hungry furnace consumes 2700 gallons of oil daily



Special electrically controlled dampers automatically take care of the furnace





The rough edges are taken off, and the finishing touches put on by the burnoff machine



The bulb molds have to be scraped, tested, and recoated every eight hours

ic glass blowing machines. 15 160,000 bulbs a day



double checked in front of a lighted stand



It takes more than expert handling to take care of, and pack this endless stream of bulbs

Haunting Strains THAT Halt the Nation

Each Evening the Theme Song of the Amos and Andy Broadcast is the Signal to Hold Everything



—and thus each week-day evening the nation is warned to pause in its deliberations and cease in its activities. When these few notes are heard from a National Broadcasting Company hookup, dinner tables are deserted, theaters interrupt their programs, and millions of people lean toward their loudspeakers. It is the time for Amos 'n' Andy, peers of all blackface comedians.

How many sit each night and rave about the droll humor of Amos 'n' Andy, but how few—even the most devout followers of the Amos and Andy broadcasts—are conscious that

the certain selection that opens and closes the presentation every evening is as popular as the noted performers themselves?

Now here is something for Pepsodent hour fans to attempt. We are willing to stake considerable on the fact that not more than one-

Joseph Gallicchio who is the violinist and Director of the trio

fourth of one per cent of all the radio listeners in the country can answer these questions: "What is the name of the selection which introduces and terminates the Pepsodent program every night?" "Who wrote it and by whom is it played?"

Well, let us ease your troubled brain

by telling you that the name of the were consider composition is "The Perfect Song" and Song" was find

By J. J. Wilson Sales Promotion Dept., RCA Radiotron Co., Inc.



Franz Pfau.

the planist of the Pep-

sodent

trio

was written by Joseph Carl Briel.

were considered before "The Perfect Song" was finally chosen.

Played originally as part of the musical score accompanying the motion picture, "The Birth of a Nation," it was further popularized by the Amos and Andy program and published last year as "The Musical Theme of the Pepsodent Hour featuring Amos and Andy." It was recorded, too, Victor records sharing in increasing its widespread acceptance.

Beauty and melody blend in "The Perfect Song" yet there is more than that to it. Somehow it is a tune difficult

to catch hold of.

The air seems

hard to memo-

rize. How many

have listened to

it twice nightly

for the past 285

days or so, but

how few are able

to whistle or

hum it. It seems

to evade the

common appeal

of current music.

Its strange some-

thing, its elu-

siveness, makes



Johan Lingemann plays the cello for the famous trio

Piece Carefully Chosen

Of course the selection was not chosen offhand or picked by chance from a pile of music. On the contrary there was much time and discussion devoted to its choice. Nineteen other musical compositions of popular, semiclassical, and classical construction

for the famous trio

it entirely different from the popular selections of the hour. That is one of the reasons why it was chosen.

The Trio That Plays It

As presented by the National Broadcasting Company the signature of the Amos and Andy program is played by the Pepsodent Trio and much of the credit for the astonishing success of the number must go to Mr. Joseph Gallicchio, under whose deft hand the music was arranged for broadcast presentation.

Joseph Gallicchio, who conducts the trio and performs on the violin, is aided by Johan Lingemann, cellist, and Franz

Pfau, pianist. All three of these men are noted and talented musicians.

At present Mr. Gallicchio, besides leading the Pepsodent trio, is the WMAQ (*Chicago Daily News* Station) orchestra director. His violin, made over two hundred years ago by the renowned Joseph Gagliano, is noted for its marvelous tone quality.

Johan Lingemann, cellist with the Pepsodent trio, was born in Amsterdam, Holland and studied music, under the famous Gerard Hekking. His first attempts were with the flute but love for the cello made him alter his original intentions. He has appeared as soloist with many concert and symphony orchestras and has been a member of Emil Saurett's string quartet in London and of the Chicago String Quartet.

Franz Pfau, the third member of the trio, was born in Vienna and studied the violin.



Amos 'n' Andy, the black face comedy team who are heard six nights a week through the NBC networks. The one with the extra aces is Andy

Later, however, he switched his efforts to the piano and is widely recognized as an outstanding and gifted musician. He has concertized Europe and has given numerous successful recitals in

both Chicago and New York.

And now we know more about something that has been coming to us each day, heard and admired, yet almost unheeded. What would Amos and Andy be if the music were omitted? What an eruption of protest, wonderment and objection there would be if for one evening the famous "theme song" was left from the broadcast? It is the key.that opens and closes a treasure box of drollery.

Yet it is but one of the many theme songs which herald the coming of entertainment programs to which all America listen. In every program, regardless of type, RCA Radiotrons play a vital part.

"Pleased To Meet Ya!"

INTRODUCING to you Milt Gross ... the man who hands you a laugh each month while giving some sage advice on the policy of long discounts and blue sky promises.

Milt's cartoons, "They Always Come Back to RCA Radiotrons," have won warm words of praise from all readers of GOOD NEWS. But, what he has done so far is only a sample of what he is going to do. Watch for his new series which will start in September. "Keep your eyes on your customer —not on your competitor." You're going to like 'em.

S-s-h | Listen to This

But here is the real dirt. We found out that Milt once lived in Harrison, now the home of the RCA Radiotron Company. At once we asked Milt for more information . . here is what he gave us"I don't know just how or why I was born. I'll let the guy who writes

my obituary worry about that. I went to Kearny High School for a brief spell and can't spell yet. I flew from Harrison to New York in 1916, completing the trip in 15 hours flat, a record for that time.

"There I originated the comic strip 'And then the fun began.' In 1917 I asked for a raise and then the fun began. The next day war was declared. We sailed into Brest, France, with a gentle breeze approaching hurricane viscosity. I found the Mayor

of Brest wearing my Sunday suit which my Mother donated to the Red Cross the year before.



city's official tug didn't meet me when I sailed up the bay. However, sixteen New York Central tugs swarmed around my cattle boat as we approached the dock.

"As Grover Whalen wasn't on

New York's Reception Committee, the

"Well, guy, here I am annoying the public. And, getting paid for it . . . Oh, gee, swell . . . yes, the Missus and the three kids 'll be out of town."

And there you have Milt Gross, famous cartoonist, writer and radio program maker.

The caricature of Milt Gross was done especially for GOOD NEWS by Ernie Bushmiller, comic strip artist of "Fritzi Ritz" fame.

The Earth's Four Corners



Tin from the Isle of Banca







Iron from Minnesota



Molybdenum from Australia



Marble from Vermont



Manganese from Russia

AND now the motion pictures will carry the message of RCA Radiotron quality. A new sound movie, "The Earth's Four Corners," is ready for release. Hundreds of thousands of people the nation over will be presented with an interesting and unforgettable picture of what goes into their radio tubes and from what distant points that material comes.

Beautiful scenes of foreign localities will provide an insight into the immensity of the exacting task of manufacturing RCA Radiotrons, while John S. Young, popular National Broadcasting Company and RCA Radiotron hour announcer, will lend added impetus to this entertaining and educational production by accompanying the scenes with a vivid and interesting explanation

New Sound Movie to Show Romance Behind Manufacture of RCA Radiotrons

> of the film. Much labor was put into its production and its message is as complete as it is entertaining.

> In hundreds of theaters throughout the nation this picture will be seen and enjoyed by the millions of interested and enthusiastic persons who look to radio as their leading source of entertainment. It is not a series of mechanical diagrams and technical illustrations, but a living, understandable tour of the industrial world from which come the raw materials for RCA Radiotrons.

> "The Earth's Four Corners" is a tremendous and extraordinary thing and presents retailers with a sensational means of tying in some truly effective advertising. Find out from your local theater manager just when this production will be featured on his bill and play up its presentation in your local newspapers and in your store.

If by any chance your theater manager has missed this golden opportunity, describe its possibilities to him and have him write to Sales Promotion Dept., RCA Radiotron Company, Inc., Harrison, N. J. We will be glad to furnish him, or you, with details of "The Earth's Four Corners."

We Point With Pride—

Mathew L. Bergin

Of genial personality and one to whom everyone takes an instant liking is Mathew L. Bergin. Matt's experience



in radio dates way back to the old Marconidays when he was a wireless operator on transatlantic liners. During the

Mathew L. Bergin 👘

During the was

made Communication Officer attached to the U.S.S. Louisville.

After the war, he was appointed Director of the Radio Institute of America. Then, in 1922, we find him busy organizing the RCA Distribution and Sales Department in San Francisco. Later he helped to establish the Chicago Office.

Matt has been in the RCA Radiotron business since its inception and now has one of the most important positions in the Home Office Sales Organization. His wide knowledge of radio, combined with his keen appreciation of good merchandising methods, will be added to the fountains of knowledge and effort bursting forth from Harrison to aid jobbers and dealers to make more money from RCA Radiotrons.

F. H. Troup

F. H. Troup is a typical American, born and raised on a farm in Upper Sandusky, Ohio.



F. H. Troup

bouncing along merrily with the Miller

Rubber Co., later to Firestone Tire and Rubber Company, he tossed aside his pen and reached for a sword. In 1917 he enlisted with the 112th Engineers 37th and went to France. In 1921 we find him firmly entrenched with the National Lamp Works at Nela Park in charge of the Balance Sheet, where he remained until 1930. His reputation in accounting work reached the ears of the RCA Radiotron Company whereupon he was invited to climb upon the band wagon and take over the responsibilities of Assistant Secretary and Treasurer.

Charles McClair

Our ever alert Patent Attorney, Charles McClair, is a graduate of the far famed University of Kansas.



He was selected to the important post of Examiner of Patent Applications at the greatest patent office in the world, namely, the fice at Wash-

Charles McClair

United States Patent Office at Washington, which position he held for five years. All his important duties were not enough to keep him thoroughly occupied so he attended the George Washington University for three years, where he graduated from the Law Course after specializing in Patent Law and Practice. His next important step led him to the Patent Department of the General Electric Company at Schenectady, where he concentrated on the inventions made in the Research Laboratory on incandescent lamps. He came to Harrison ten years ago as Patent Attorney for the Edison Lamp Works, where he recently distinguished himself legally in a test suit on the fundamental tube patents.

His long experience in matters of this nature fits him ideally for the key post he now holds.

J. L. Bartlett

Out of the wide open spaces (Partridge, Kansas, in fact) comes J. L. Bartlett for Head of Equipment Activities Dept.



A graduate Engineer of Pratt Institute in 1912. Agenial husky chap who made quite a reputation in school athletics.

Mr. Bartlett joined the Edison Lamp Works' manufacturing organization in 1912. The list of important jobs he has held would fill the page. Here are a few high-lights of his career: in 1920, Superintendent, Belleville Lamp Factory; later, 1924 we find him in a similar capacity at Harrison Lamp Factory. Then Assistant Manager of Harrison Vacuum Tube Works. His energies are now devoted to seeing that RCA Radiotron factories have the last word in machinery equipment.

C. P. Boggs

The Home Office Manufacturing Department is mighty lucky to have as its Cost Engineer and General



Operating Analyst, C. P. Boggs. In 1919 he went to work, a graduate technical engineer from Purdue University, for the National

C. P. Boggs

Lamp Works at Nela Park, Cleveland. He came to the National with a good background of public utility training and an excellent two year army record.

During the past eleven years his determined application has yielded thorough experience in nearly every phase of the lamp and tube business.

graduation from Heidelberg College, Ohio, in 1915, of course, being an Ohioan he just could not stay out of the rubber puddle. After

Upon his

Not So Long Ago



"Guess Who I've Got"



The "Shaker" Set





A Waste of Time?



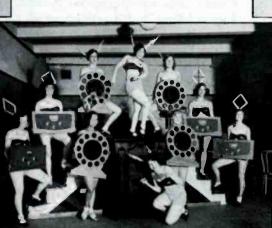
High Frequency



The Original Push-Pull



PHOTO U. & U. "Don't Let It Go to Your Head!"



What's Behind the Mike?

WIDE WORLD PHOTO



Just Another Fish Story

From a Very Crude Affair the "Mike" Has Become, in a Short Time, a Highly Developed Instrument



C. W. Horn, General Engineer, National Broadcasting Company

The first microphone was an ordinary telephone variety. It was totally unlike the present day microphone and had little of the sensitivity and high frequency range for which today's instrument is noted.

It had a resonance period at 1,000 cycles and had very poor response to both low and high audio frequencies as compared to the latest model which has a flat response curve from 30 to 7,000 cycles.

First Used by the U.S. Navy

That microphone was first used in 1915 in a radio telephone transmission test from Arlington, West Virginia by the U. S. Navy.

This telephone microphone formed the basis for most of the early day

experiments in broadcasting. It was not replaced by the zealous pioneers of radio until about or just before 1920.

Answering the Need for Quality

Rather intensive work was started immediately after broadcasting came intobeing in 1920. Until then microphones were primarily for speech and were not required to reproduce the musical scale.

By C. W. Horn National Broadcasting Company

Simultaneous development work was carried on by those organizations interested in the development of radio, notably the General Electric, the Westinghouse Electric and Manufacturing

and the Western Electric Companies.

HE story

of the

evolution of

the micro-

phone is one

of steadily

increasing

power and

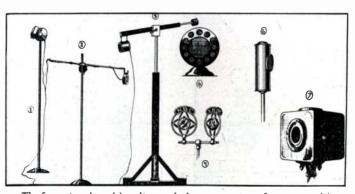
sensitivity.

Some of the first microphones were rather unique in design. Some used paper diaphragms to overcome the disturbing resonance. Then thin

metal diaphragms, under tension, were used, so as to raise the resonance period above the usual audio frequencies used.

Carbon Grains Improved

Improvements were made in the carbon, both as to shape and hardness, as well as the cups holding the grains.



The first microphone (1), ordinary telephone transmitter. Its successor (2) was virtually the same mechanically. The third "mike" (3), the "tomato (an," was the first really successful "mike." Next, the "bird cage" (4) which is now a symbol for radio. Its successor (5) is a refinement. The first condenser "mike" (6) was a great improvement. The camera microphone (7) is the last word in microphones

As the diaphragm was accused of being the part that caused distortion, one of the manufacturers conceived the idea of the microphone which did away with this seemingly important



The original Shannon Quartette, now the Revelers, broadcasting from WJZ back in 1921. From left to right they are, Tom Cowan, Lewis James, Elliott Shaw, Charles Hart and Wilfred Glenn

Just what may be the next step in microphones is a question NBC engineers are unable to answer. At the present moment, these experts say, the microphone, as regards quality, is ahead of other broadcast equipment. In other words the microphone has quality char-

Ahead of the Radio Set

acteristics superior to the ability of the average radio receiving set.

All of which makes it of utmost importance that not only the finest receiver should be used but also tubes of the best quality in order to insure reception that will do justice to modern transmission. After all it's what you get that counts. The best microphone in the world is of no avail if inferior receiving equipment is used.

ed distortion, conceived the e which did gly important and necessary part. This device, conceived by the Westinghouse Company, was

calleda"Glow

microphone."

Then came in

rapid succes-

sion the types

illustrated

below.

Nineteen

RADIO TONICS

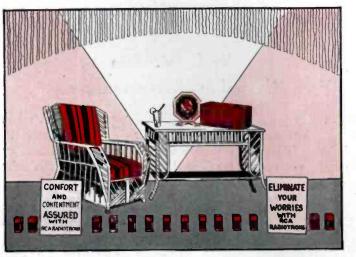
By G. Gerard Clark and W. F. Knecht

E VERYONE is outdoors these days, so now is the time when your windows are most important. This is the period when your show windows should be your most valuable salesman. Here are some sales-stimulating ideas which will make any window alive and attractive.

Now that hot days are here everyone is wishing that they could find a nice cool shady nook where they could loaf comfort-

ably. Bring their wishes to an actuality by making your window a perfect replica of their fondest dreams. Now for the aforesaid haven.

For the background, blue skies are always appropriate. Then add a few paper roses (so easily made of crepe paper). Then we have a fitting background. Some wicker porch furniture can be borrowed from a nearby furniture store. This will give you a chance for reciprocation later on. Put a small radio on the wicker table. Next to the radio place a tall glass of amber liquid (of course complete with two straws).



An attractive summer window

But wait—the final touch is yet to come—!

From the top of the window hang long green fringes of crepe paper. Then have an electric fan play upon this to effect an impression of a "cool breeze!" Talking signs complete the display.

On Tapl

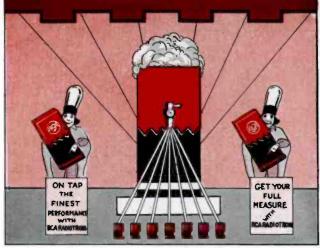
GOSH! What I could do to a drink! This is one of the most frequently heard sentences during the summer spell. You are probably wondering how a window can be tied-in with this. Well just peruse the following suggestion. Stone grey paper will make a nice cool background. Then, in the center of the window place a giant RCA Radiotron carton. From the front center of this have a spigot protruding, thus giving the impression that there is something on tap!

Streamers of amber crepe paper should be suspended from the tap to give the impression that

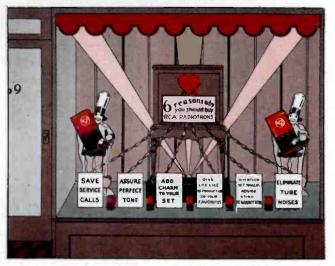
the amber stream is over-flowing. To lend added effectiveness to this display—bunch some cotton wool on the top of the carton thus suggesting that the carton is *brimming* with good stuff!

The show cards tell the rest of the story. They read "On Tap! The Finest Performance with RCA Radiotrons!" and "Get Your Full Measure of Enjoyment with RCA Radiotrons!"

Six Reasons Why They Should Buy THERE are any number of reasons why people should buy RCA Radiotrons. We have picked six at



Make them stop, look and get the story of RCA Radiotron quality



Emphasize the reasons why customers should buy RCA Radiotrons

random, and put them in the form of a window display.

The window in the finished form will have a radio set in the center, with a symbol of a heart (telling the story of "The Heart of Your Set"). From this have six streamers going out to six show cards that are placed in the front of the window. These cards will stress the points that you wish to bring out.

For the background use black, red, and white crepe paper.

Tie-in with Station Directories RED! Stop! A terse command that automatically halts the passer-by! A traffic halter! And this is just what

sticking in the center and "RCA Radiotrons' printed on the arrow's tail. Thesidecards bear the slogans "Best Hits and Scores with RCA Radio trons!" and "Bull's eye! the Target of Enjoyment with RCA Radiotrons.



The good obtained from this window by far outweighs the cost of construction. For your target, cut out three different circles of red, black, and white cardboard respectively. For the center use an RCA insignia. Then cut out your two cardboard arrows and paste them on the target.

Feature the International Yacht Races

ULY! This is the month which features the greatest classic of the water, the Lipton Cup the top of which should be cut so as to resemble rolling waves. Behind this screen place two model sailboats so that they appear to be riding the waves. One should bear the American flag and the other the British flag. An electric fan may then be turned on from the floor so that the current of air strikes the sails of the boats. This gives the onlooker the impression of a stiff breeze at sea.

On either side of the display material place show cards. These convey messages which tie-in with the spirit of the display. On one, letter, "Always First with RCA Radiotrons" and on the other inscribe, "Waves of Enjoyment with RCA Radiotrons." This window is not only unique but unusually clever.

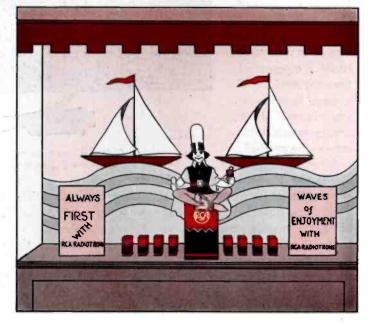


you want for the center of your window. This display may be made to tiein with the new Broadcast Station Directories. This may be done by attaching paper streamers to the center traffic sign. These same streamers are then fastened at the other end to individual log books which can be pasted on the inside of your show window. The show cards tell the passerby to: "Step in for a Free Broadcast Directory!" and "No Detours to Happiness with RCA Radiotrons!" Order your directories now!

Perfect Hits with RCA Radiotrons

HERE'S something different! The main idea of this window is to have for the center a big red, black, and white bull's-eye with two arrows Races, the yacht race of the year! You cantie-in your window with this great event with a minimum amount of time and effort.

The backg r o u n d should be of blue crepe. Then a footin front of the background place a piece of beaver board



Service Slants— THAT Build Sales

A Reliable and Cheap Testing Panel for the Service Department

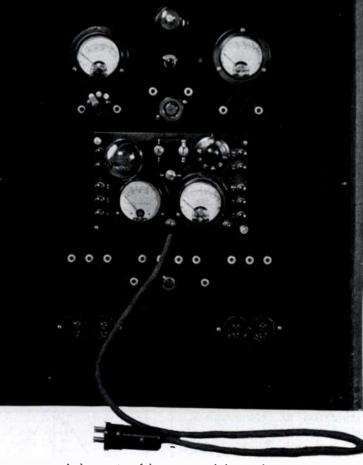
By E. C. Hughes, Jr. RCA Radiotron Company, Inc.

TESTING panel which will help to quickly locate and diagnose faults in radio receivers is the dream of every service man. One which has the above qualifications and in addition is reasonably cheap is the dream of every radio store owner and manager. A panel which fills this need is used by the Aeolian Company, of New York City, in its service department.

The panel was built in the shop of the Aeolian Company by its service men to satisfy their needs as experienced from the servicing of a great many radio sets. It was built from materials which are readily available

and, for the results obtainable, reasonable in cost. It is sufficiently flexible for the usual testing encountered in radio repair jobs. Due to the convenience of such a testing panel the time of testing is reduced to a minimum, thus speeding up the passage of sets through the repair department.

A close-up of the testing panel is shown above. The nucleus of this



A close-up view of the testing panel showing the arrangement of meters and other apparatus

equipment is a Weston No. 537 set tester mounted in the center of the panel as shown.

The lead for the adapter plug is brought through the front of the panel so that it may be conveniently plugged into the sockets of the set under test. A UY base is mounted just above the set tester and it is connected in parallel with the UX socket on the tester. Into this socket are plugged the tubes having the UY base for testing. The set tester is operated in the usual manner so no details need be given here.

Voltage Test

Mounted in the upper left hand corner is an 0-50, 0-250 voltmeter which can be connected through an additional external resistance giving an 0.750 volt scale reading. The circuit arrangement is shown in the schematic diagram. The 50,000ohm resistance and the 200,000 ohm resistance are internally connected to the meter, while the

500,000-ohm resistance is externally connected. The arm selector switch provides a convenient method of selecting the desired scale. Test leads to the meter are plugged into the jacks on either side of the selector switch.

Resistance Test

Mounted in the upper right hand corner is a 0-25 milliameter.

With the external shunt of the value shown, 0-250 milliamperes can be read. This meter is to be used for resistance

measurements exclusively as the dry cells are permanently connected. In making a resistance measurement, leads from the resistance to be measured are plugged into the jacks, and the milliameter is read. It is not necessary to read the voltage of the dry cells at the time of each measurement as they hold constant voltage for a considerable length of time. However, it is a good plan to note the voltage of the batteries from time to time so that they can be replaced as soon as their voltage begins to fall

off appreciably. Thus with the values of shunts shown and a meter of approximately one ohm resistance, the value of the unknown resistance will be given by the following equation:

$$R_x = \frac{1000 E}{I_{me}} - R_y$$

where R_x is resistance to be measured in ohms.

- E is the potential of the batteries in volts.
- I_{ma} is the milliamperes read.
- R_i is the fixed resistance in the milliameter circuit.

With the switch open R_i will be 60 ohms. With the switch closed R_i will then be 6 ohms.

Condenser Test

At the top of the panel in the center is mounted a small neon lamp used in testing low capacity condensers. To obviate the difficulty experienced in making accurate tests on low capacity condensers (below 0.1 mfd.) without elaborate equipment, this system was devised. By connecting the neon lamp in series with the condenser and an alternating-current supply a glow will be

obtained. If by shorting the condenser an increase in intensity of the glow is observed the condenser is all right. If



The testing table being used by one of the Acolian Company's expert service men

there is no increase in the intensity upon shorting the condenser, it is shorted. An open lead in the condenser will be indicated by no glow at all. In making this test with direct current only one terminal in the neon bulb will flash as the condenser is charged. Either alternating or direct current for the test is obtained by changing the selector switch below the lamp.

Continuity Test

Continuity tests are made using either the lamp or the voltmeter from the jacks on either side of the "on" and "off" switch at the bottom of the panel. The supply to these jacks can be made either alternating or direct cur-

rent by means of the selector switch mentioned above.

"A," "B" and "C" Supply

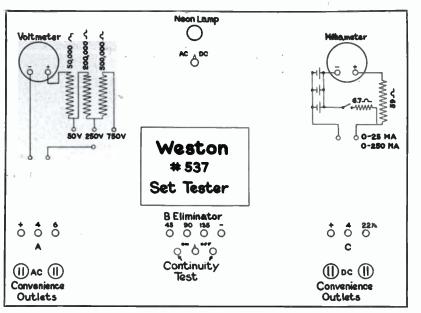
Just below the set tester are three sets of jacks supplying direct current at the voltages commonly used. These jacks provide ready sources of "A," "B" and "C" supply for a set under test.

In the lower right-hand corner are two convenience outlets supplying 115 volts alternating current and at the right are two more supplying 115 volts direct current.

Layout of Table

Antenna and ground connections are made to the small battery clips mounted on the right front leg of the table.

A view of the complete testing table is shown. Everything has been arranged for maximum convenience and accessibility. A complete set of RCA Radiotrons is kept in the compartment on the left for use in operation tests on receivers. The large numbered stickers affixed to each tube facilitate quick identification of the different types. At the right is mounted a loudspeaker which can be hooked up to a set on the table for an operation or tone test. The



Layout of the testing panel with details of the voltmeter and resistance measurement circuits

lower shelves on the right provide a handy place to keep parts and tools. Notice the complete set of socket wrenches and screw drivers in their rack at the right. Pliers, soldering iron, and the like are kept within easy reach of the repairman at the front of the table.

This testing panel has been used by the Aeolian Company with great success. It has speeded work. Changes can be made to suit individual needs.

Make It Inviting



This window is typical of the sales compelling windows successfully used by the Swords Electric Co. of Reckford, Ill.

Dignity and simplicity are the keymote of this RCA Radiotron display of Hansch Radio Inc., Weehawken, N. J.

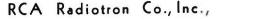
A New Yorttolio of Sales Letters

MUSIC COMPANY IN MAIN STREET CAH -- NEBRASKA

PICTURE this—12 interesting, sales producing letters just the kind you would write to your customers. Letters that build good will, sell your organization and help you to increase your profits from the tube renewal market—letters with a real sales appeal.

Schedule one of these letters to go to your customers every two weeks. Then you'll be bound to get your message across to them at the time they'll need new tubes. And when they do, why they're going to get them from you!

You can get this series of letters by writing to the RCA Radiotron Company, Inc., Harrison, N. J. or to our nearest district office. Or, ask your jobber's salesman! No charge.



HARRISON, N. J.







"The Best Insurance Against Tube Troubles ...RCA Radiotrons"

says

JOHN S. GORMAN Vice-President and General Manager GULBRANSEN COMPANY

WE strongly recommend that every Gulbransen Radio owner use RCA Radiotrons. Our engineers use RCA Radiotrons in laboratory work and for testing, as they are of uniformly high quality and give the best results. We find that RCA Radiotrons not only safeguard sensitivity and selectivity and insure Gulbransen realism, but act as the best insurance against vacuum tube troubles. It's good common sense to demand RCA Radiotron quality for both first equipment and replacement."

RADIO ENGINEERS ADVISE:

Replace all the vacuum tubes in your radio set with RCA Radiotrons at least once a year. This is the only sure way to maintain good performance and minimize disagreeable noises and other troubles caused by inferior tubes. RCA Radiotrons will give you the maximum in selectivity, sensitivity and *tone quality*.

Old tubes may impair the performance of the new

RCA RADIOTRON CO., INC., HARRISON, N. J.



This is the 20th in a series of endorsements of RCA Radiotrons by the leading radio set manufacturers.



This advertisement appears in Collier's, June 21; Literary Digest, July, 5; Saturday Evening Post, July 12; Liberty, July 26, Popular Science Monthly, July, and 216 leading newspapers.