

The Scott News

Vol. 5

JULY, 1933

No. 7



BACK HOME AGAIN!

To My Friends
Throughout The World:

It is good to be able to greet you again direct from the Laboratory in Chicago.

For the past three and a half months, I have been making a radio research cruise and have traveled approximately 24,000 miles.

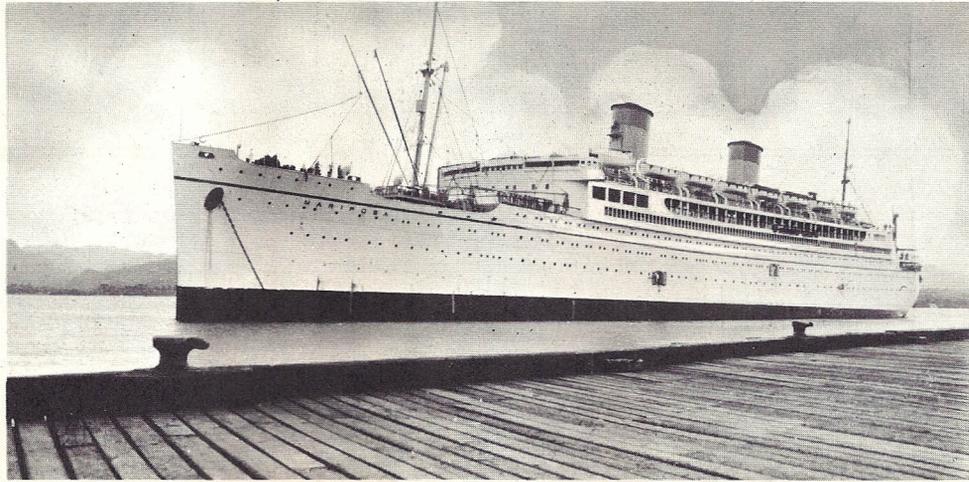
This journey has taken me clear from one side of the world to the other during which I have given the new SCOTT ALLWAVE DELUXE RECEIVER one of the most grueling tests to which a radio ever has been subjected.

When you read the results secured you will, I feel sure, agree I have again proved to the entire world that a SCOTT is the World's Finest Long Distance Receiver.

On the following pages you will see I am backing that conviction with the strongest proof and the most unusual guarantee in radio history.

Cordially yours,

EHS:EM



THE S. S. MARIPOSA ON WHICH TESTS WERE MADE AT SEA

A 24,000 MILE TEST ON LAND AND SEA PROVES RECEPTION RANGE ON BROADCAST BAND OF SCOTT ALLWAVE DELUXE

In the perfection of the automobile and the airplane, long road and track tests under extreme conditions, and thousands of miles flown on the air, in all kinds of weather, have been the means used to finally test and develop their design and performance. While the research laboratory can work out designs, which may look good on paper, only *practical tests* and *actual use* can *prove* whether that design is sound or not. If such tests are *not* made by the manufacturer, then the buyer must do this practical testing himself, and take the risk of purchasing a product before it has proved itself in actual use.

Why is it that a 5,000 mile trip can be made today in a modern automobile with more certainty that you will arrive at your destination than you would on a short 50 mile journey in the automobile made a few years ago? The tremendous advancement in design and the reliability of the automobile we have today, is the result of the severe tests they are put thru in the annual 500 mile automobile races which are held at the Indianapolis speedway every year, and long road tests and hill climbs, the results of which are carefully observed. The finest automobiles in the world—Lincoln, Cadillac, and Packard, are given the final OK in the severest kinds of tests on their own private "proving" grounds, *after* the engineering laboratory has proven to its satisfaction, by means of scientific tests, that the design is thoroughly efficient.

In the field of radio if the greatest perfection is to be obtained, a receiver **MUST** be subjected to the same practical tests in the field by its designer, as have been found necessary to produce the *ultimate* in the design of the automobile or airplane.

For years SCOTT RECEIVERS *alone* in *all this great radio industry* have been subjected to tests that *have never been attempted by the manufacturer of any other radio receiver*. These tests of SCOTT RECEIVERS are comparable to those made by manufacturers of the finest automobiles, and with the same object in view—that is—*proving in actual test* the perfection of the product. The test I have just concluded places the final OK on the design of the SCOTT ALLWAVE DELUXE model. It gives the purchaser a guarantee that the receiver he buys is a perfected and fully developed instrument.

On February 15th, 1933, I sailed on a reception test cruise from San Francisco on the R.M.S. Maunganui bound for New Zealand and Australia and returned by the S.S. Mariposa. *Every night* until I arrived in Wellington, New Zealand, on March 5th I logged the entire "Round The Town" program transmitted from WBBM in Chicago, and again on the journey back on the S.S. Mariposa. Every night I made a report to WBBM by radiogram of my reception of each program. These messages were read into the air and have been heard by thousands during the three and a half months the test lasted.

I made the first reception test of WBBM's signal from a distance of nearly 2000 miles the night we left San Francisco. The next night it was tested at 2400 miles; the next approximately 2800 miles and so on, progressing at the rate of about 400 miles a day, until ultimately I reached a distance of 9600 miles from WBBM's transmitter. WBBM transmits on a wavelength of 770 K.C. right in the centre of the broadcast band. I want to make it clear that this test was *not* made on short waves, but on the *Broadcast Band*.

This reception is all the more remarkable when you consider how great are the difficulties of radio reception aboard an ocean liner. I worked under the handicap on both ships of being forced to use a comparatively short aerial (on the Maunganui it was only 46 ft.). The electrical disturbances from dozens of electric motors and the immense amount of steel in the ship itself also acted like a huge sponge to absorb the energy before it reached the antenna; yet the SCOTT ALLWAVE DELUXE overcame all these obstacles, and brought in stations nine and ten thousand miles away with enough volume to be heard all over the ship.

Night after night I furnished music for the passengers on both ships to dance to, and the results secured amazed even the seasoned radio engineers aboard the Maunganui and Mariposa, who sat in with me night after night to check the reception.

What does such a test as this mean to the average man? It means simply this: That on his behalf I have put the SCOTT ALLWAVE DELUXE RECEIVER to a test of operation under abnormal conditions, to receiving at extraordinary distances in all kinds of weather, including tropical static. It was a test made to prove that a SCOTT ALLWAVE DELUXE RECEIVER has enough reserve power to bring in stations from one side of the world to the other, on the Broadcast Band, as it has already proved it can do on the Short Wave bands.

A complete detailed report of the reception accomplished each day of the test is now being written, and I will be glad to send a copy of it as soon as printed to anyone interested.

PATRONS IN THEATRE LOBBY IN CHICAGO HEAR EUROPE NIGHTLY

Every business has its own peculiar problems, and the movie business is no exception to the rule. The Uptown Theatre, in the center of Uptown Chicago, is not only the largest moving picture theatre in Chicago, but also one of the most popular theatres in Chicago, because in addition to showing the newest movies, it also presents a very fine stage show. For this reason it is particularly well patronized, and generally just before the next performance, there is a long line in the lobby awaiting their turn to get into the theatre.

One of the problems of the management was how to help pass the time away pleasantly for these waiting patrons. They decided a certain amount of entertainment could be provided by a radio in the lobby, and about eight different makes of receivers were tried. The reception from these receivers on even local broadcast stations was so noisy and unsatisfactory that they were removed. Then someone on the theatre staff heard about the SCOTT RECEIVER, came to our Studios, listened, and decided to try once more, and the receiver shown in the photograph was installed.

To say the results have been surprising, not only to the management of the Uptown Theatre, but also to the many thousands of patrons who have frequented it during the last three months, is putting it mildly, for not only has the SCOTT ALLWAVE DELUXE RECEIVER been able to bring in, night after night, all the local stations, but also dozens of distant stations *on the broadcast band* from all parts of America, so that their programs could be thor-



SCOTT ALLWAVE DELUXE RECEIVER IN LOBBY OF UPTOWN THEATRE, CHICAGO

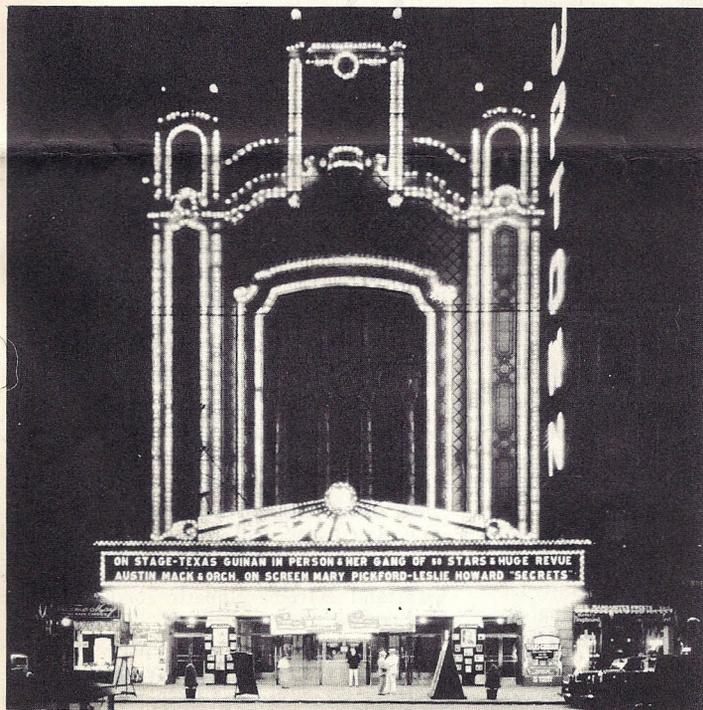
oughly enjoyed. What is even more amazing is the fact *that night after night those waiting in the lobby have listened to programs broadcast from England, France, Italy, Spain, South America and other foreign countries.*

The Uptown Theatre is located in the center of the densely populated business section of Uptown Chicago. Not more than 50 feet away is a busy street car line—less than half a block away an electric railway, and practically surrounding it are business premises using a great quantity of electric equipment. In such a location I am sure you will readily agree that the performance of the SCOTT ALLWAVE DELUXE RECEIVER is nothing short of remarkable.

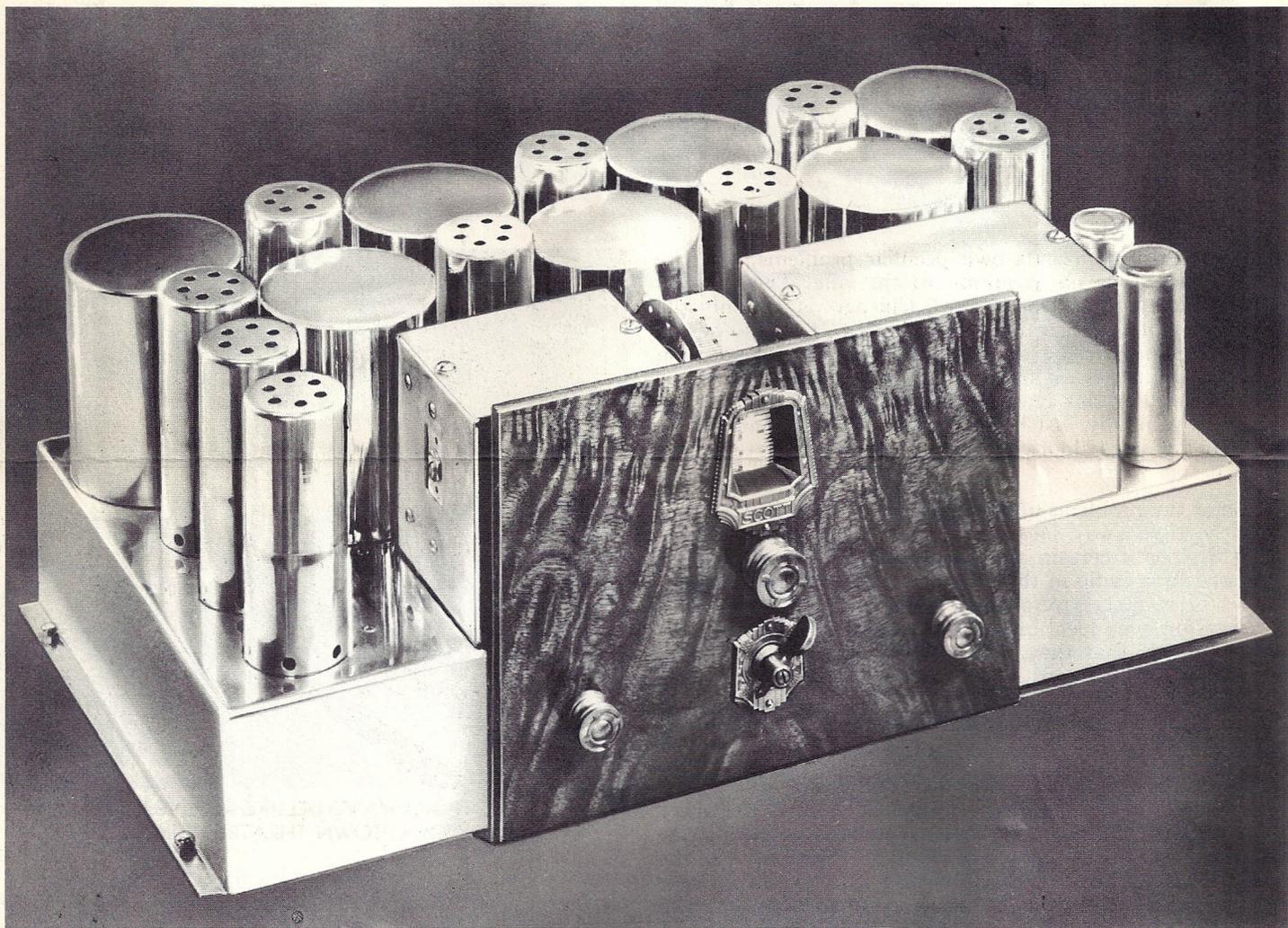
Anyone who has had even the slightest experience with radio knows that in a location like this, the amount of interference picked up generally makes reception practically impossible. Yet, the SCOTT ALLWAVE DELUXE has once more *proved its superiority to every other receiver* by giving entire satisfaction where eight other receivers have failed.

As I have mentioned before, this receiver *has been in constant use for over three months*, and has been seen and heard every night during this period by many thousands of theatre patrons, and the management of the theatre will gladly verify the results that are being obtained.

If you live in Chicago, or if you plan to visit Chicago, don't fail to visit the Uptown Theatre at Broadway and Lawrence, and see and hear a receiver operating under the most difficult set of conditions it is possible to find, giving perfect reception.



THE UPTOWN THEATRE—CHICAGO



THE SCOTT ALLWAVE DELUXE

The illustration above shows the Receiver Chassis. The Audio Amplifier (not shown) is a separate unit.

CIRCUIT USED

The new SCOTT ALLWAVE DELUXE is a 12 tube superhetrodyne receiver, tuning from 15 to 550 meters, with provision for increasing this range up to 4000 meters if desired.

TUBES USED

It uses—three type 56 tubes—one type Triple Grid-Super Control 57 tube—four type Triple Grid Super Control 58 tubes—two type 45 tubes and one type 280 tube.

WAVE LENGTH RANGE

All wave lengths from 15 to 550 meters are tuned on a single dial. This advanced feature now makes it possible for anyone to tune in stations on the short waves as easily as those on the broadcast band. An exclusive circuit developed in our research laboratory, which is fully protected by patents pending, *gangs* perfectly an r.f. stage to an oscillator, *on the short waves*, just as efficiently as has been done for some time on the broadcast band. You know a broadcast receiver using more than one dial is obsolete. The receiver that requires two dials to tune in short wave stations, is now just as obsolete.

The new SCOTT ALLWAVE DELUXE is now being equipped with a special plug and

if desired the owner may at any time in the future, at a small extra charge, increase the wave length range to as high as 4000 meters. This provision is made so that in the event the broadcast stations of Canada, Mexico, Australia and other countries, as now seems probable in the very near future, start broadcasting on the higher wave lengths, the owners of SCOTT RECEIVERS will be able to bring in their programs. The ability to tune above 550 meters is particularly valuable at the present time to those who wish to receive the weather reports which are broadcast to airplane pilots every 15 minutes of the day on 857 meters.

WAVE CHANGER

The small bronze lever below the central tuning knob operates the Rotary Switch enabling you to instantly change from one wave band to another.

VISUAL TUNING AND SILENT TUNING

A perfected system of Visual Tuning, by means of which the indicator is projected *directly* on the tuning dial, is another exclusive and patented development of the SCOTT Laboratories incorporated in this receiver. It enables a station to be tuned in silently if desired, and also shows when a station is tuned in perfectly.

AUTOMATIC VOLUME CONTROL

The signals from stations on both the broadcast band and short waves are kept steady and free from fading by a fully developed system of automatic volume control.

STATIC CONTROL

While we do not claim we can eliminate static, we *have* recently found means to reduce its effect very considerably, and enable programs to be brought in and listened to with pleasure that would have to be tuned out on an ordinary receiver because of the noise.

SPEAKER

Special SCOTT design, delivering with SCOTT Audio Amplifier an undistorted output equivalent to 15 watts.

FINISH

All metal parts of the receiver are chromium plated and will retain their beautiful finish indefinitely. All coils, transformers, etc. are hermetically sealed or specially treated to withstand extreme climatic conditions over long periods of time.

CONSTRUCTION

The SCOTT ALLWAVE DELUXE RECEIVER is guaranteed to be built from the very highest grade materials and parts, and is precision built to a laboratory standard by highly skilled technicians.

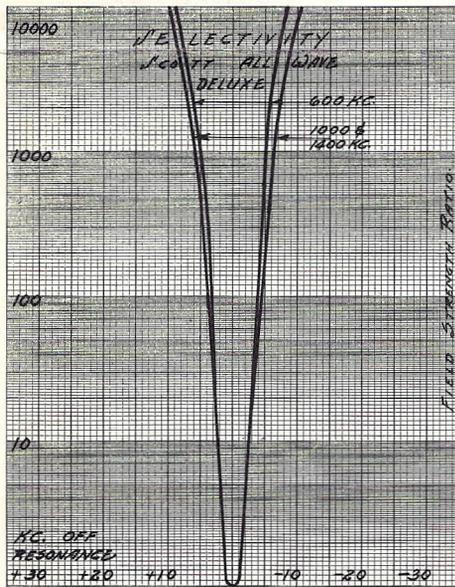
PROOF FOR THE RADIO ENGINEER

The curves shown below were obtained in our own laboratory, using the latest type 600-A General Radio Standard Signal Generator and other General Radio auxiliary equipment as required. The procedure used in making them have been investigated

and approved by some of the leading radio engineers in the country.

We are aware these curves show such a tremendous advance in receiver design it may be doubted by some that such efficiency has *actually been realized*. The best proof we can give as to their absolute accuracy is the fact that we are prepared to accept orders for the new SCOTT ALLWAVE DELUXE with the condition that the curves for the receiver delivered, which can be made by any recognized

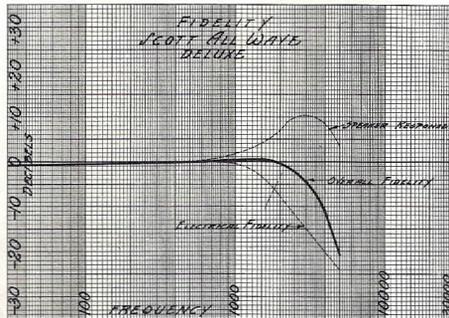
independent testing laboratory, will equal those shown below. We believe these curves prove unquestionably the SCOTT ALLWAVE DELUXE is the most selective, the most sensitive, and finest toned radio instrument ever produced.



SELECTIVITY

The selectivity curve on the new SCOTT ALLWAVE DELUXE RECEIVER shows a field strength ratio of 600 to 1 for a band 10 KC wide. We have developed in our Laboratory a SCOTT ALLWAVE DELUXE RECEIVER with a field strength ratio of 1500 to 1 for a band 10 KC wide. Such selectivity, of course, is quite useless for ordinary purposes because the side band cutting due to this extreme selectivity so attenuates the high frequencies that the tone quality is not such as one would expect to hear from a SCOTT RECEIVER. On special orders, however, we are prepared to deliver a receiver giving any required degree of selectivity with a field strength ratio of up to 1500 to 1 for a band 10 KC wide.

We believe, that the new SCOTT ALLWAVE DELUXE, the curves for which are shown on this page, is the most selective receiver that can be produced, and still maintain the perfect tone quality and realism that is expected from a high class receiver. We also believe that it will be generally agreed by all authorities on receiver design that this is the most selective receiver ever produced for broadcast reception.

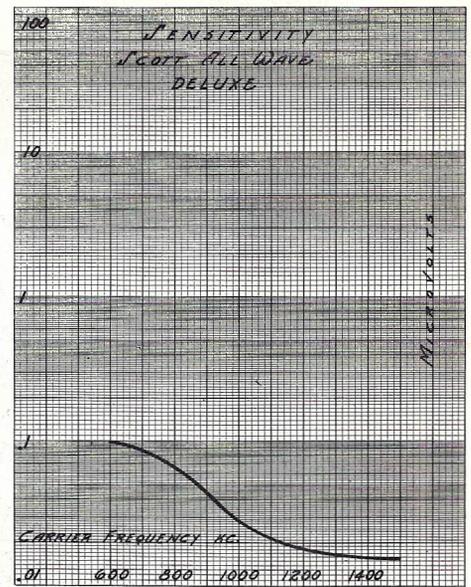


FIDELITY

Just as we have found it possible to change the design of our receiver to give any selectivity desired, we have also found means to change the electrical fidelity within certain limits.

The curves reproduced, in which the Electrical Fidelity of the receiver and the Speaker Fidelity are combined in the Over-all Fidelity Curve, shows that it is perfectly flat within 1 db down to 30 cycles. The high frequency response, it will be noted, is unusually flat, permitting faithful reproduction of the higher frequencies to an unusual degree.

The fidelity curves shown by manufacturers up to this time, have given only the electrical fidelity, and have not taken into consideration the characteristics of the speaker. The response of a good dynamic speaker is nearly flat at the bottom end, but has a rising frequency characteristic from 1000 cycles to nearly 4000 cycles. The high frequency end of the electrical fidelity should therefore fall off inversely proportional to the rising characteristic of the dynamic speaker. This is exactly what has been done on the new SCOTT ALLWAVE DELUXE. This will be borne out by the over-all fidelity curve which shows the over-all characteristics of the set including the output of the speaker.



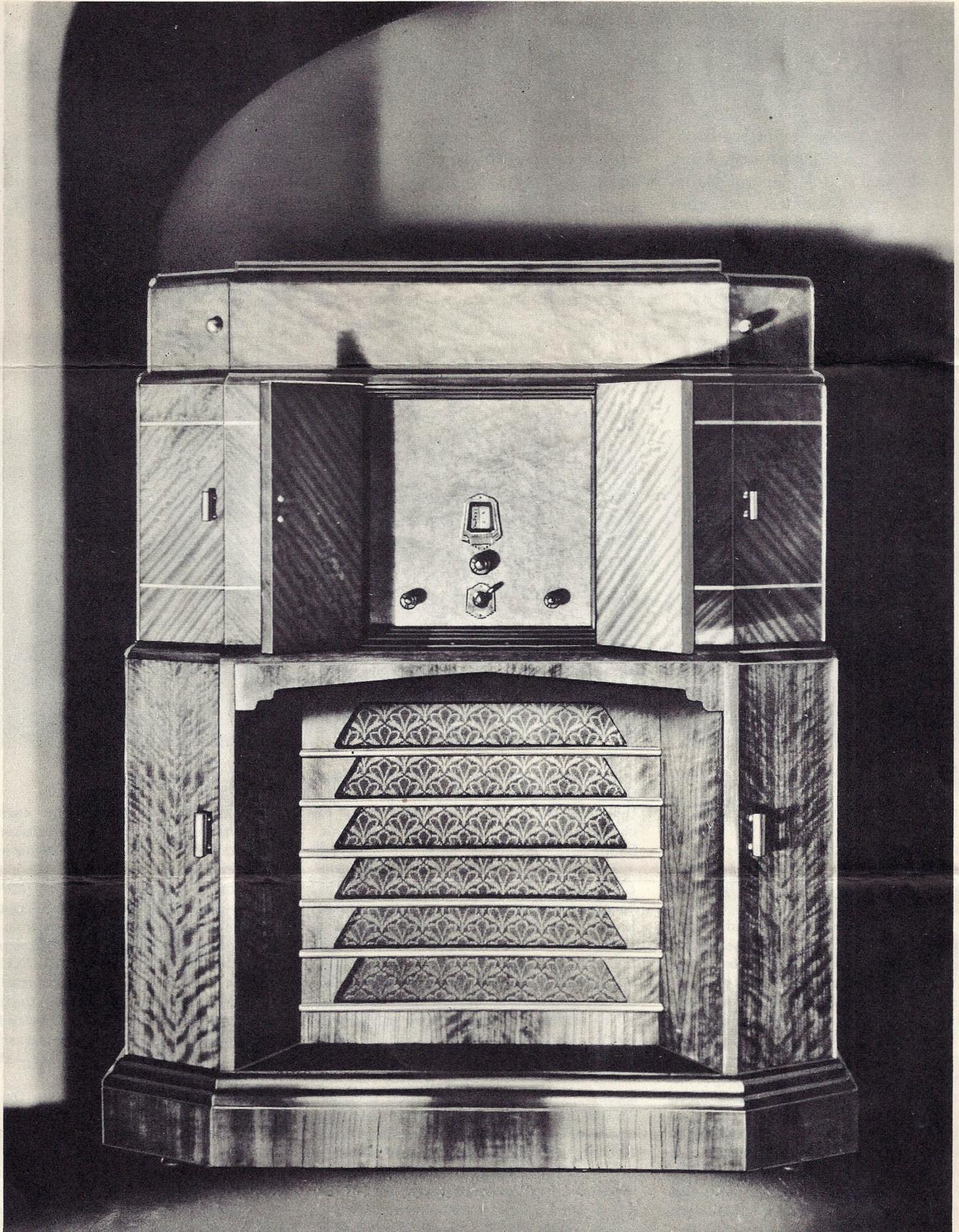
SENSITIVITY

For many years certain radio engineers have expressed the opinion that receiver sensitivities in excess of from three to five microvolts were useless, the reason given being that the so called tube noise generated within the receiver itself was so great at such a sensitivity that the output of the receiver is from 50% to 80% noise and only 50% to 20% signal.

The SCOTT ALLWAVE DELUXE was the first receiver to have usable fractional microvolt sensitivity. Perfection in the design of this receiver has now enabled us to lower the noise level to the point where a sensitivity of .1 of a microvolt can be obtained with less than 10% noise.

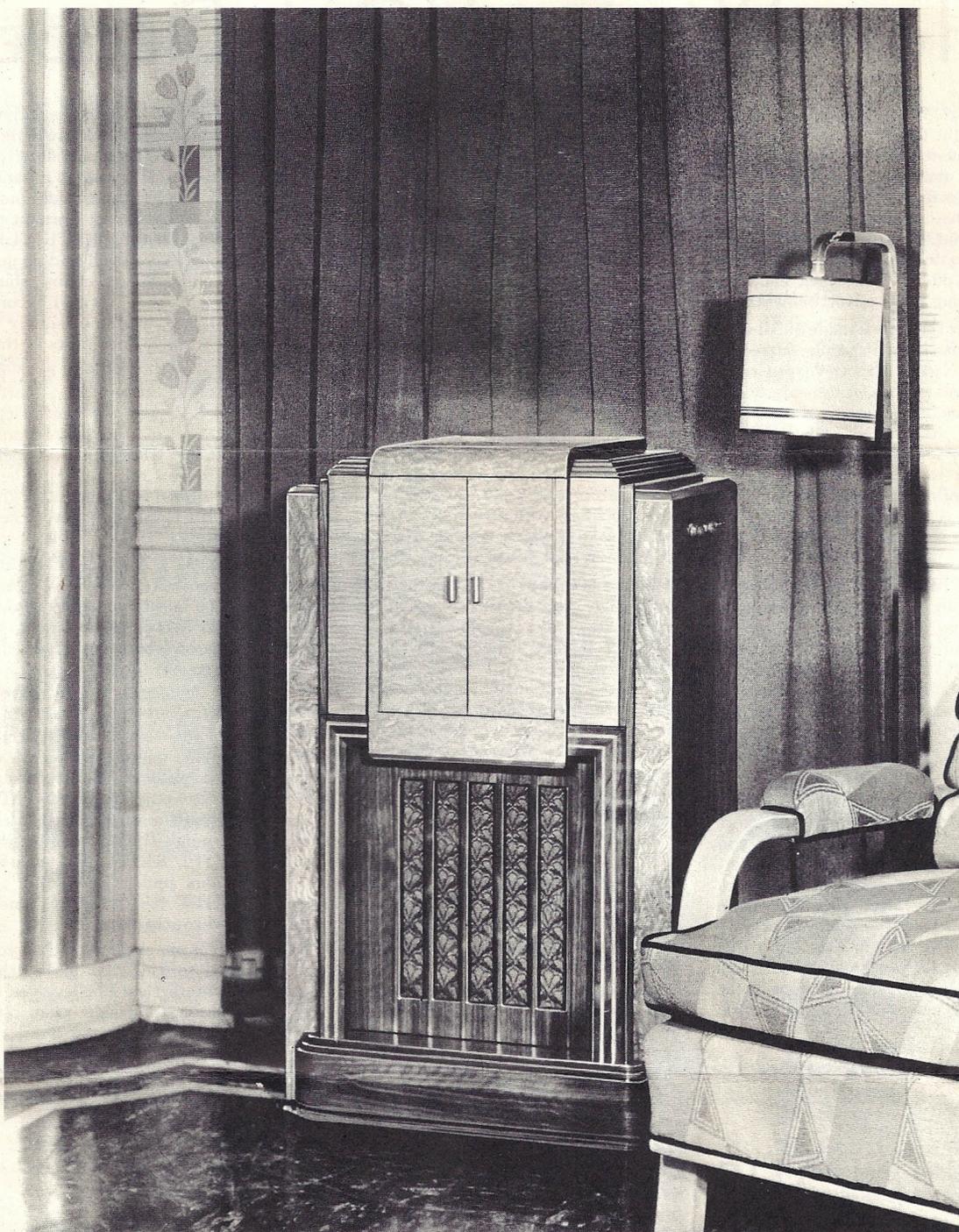
The accompanying curve shows the sensitivity of the new SCOTT ALLWAVE DELUXE is .1 of a microvolt absolute or .025 microvolts per meter at the least sensitive part of the curve. This curve is remarkably flat as it will be noted that the total variation in sensitivity over the entire range is less than .021 microvolts per meter.

When comparing above Sensitivity curve with others, note if it is run on graph paper starting at .01 of a microvolt instead of standard graph paper.



THE IMPERIAL GRANDE

Design Protected by
U. S. Des. 89441



THE WESTERLY GRANDE

Protected by
U. S. Design Pat.
Applied For

SCOTT CONSOLES are as outstanding in quality and distinctive in appearance as the precision built new SCOTT ALLWAVE DELUXE RECEIVER they are designed for.

Each SCOTT console is an original and exclusive model (not stock designs built by the thousands and sold in every radio store) but specially designed for the SCOTT RECEIVER and sold by the E. H. SCOTT RADIO LABORATORIES, with each design protected either by copyright or design patent. Each is custom built from fine selected woods—individually hand built by craftsmen—not duplicated by the thousands by machine methods.

They herald a new era in radio design, capturing in their stately majestic lines, both strength and simplicity. They are built for those whom only the superlative will satisfy and who want the finest, and are a fitting companion for that supreme medium of perfected radio reception—the SCOTT ALLWAVE DELUXE RECEIVER. Their very reasonable price will agreeably surprise you. Our Brochure—"SCOTT CUSTOM BUILT CONSOLES" illustrating the seven other distinctive Consoles, will gladly be sent you on request.

How Would YOU Decide!

Since my return from my research cruise I have had brought to my attention the published advertisements and the printed literature of certain manufacturers of Allwave Receivers. Any ordinary individual who is now interested in the purchase of such a receiver certainly has an extremely difficult job in front of him to decide on the merits of the various receivers offered, if he must make his choice after reading these advertisements.

On looking over the claims made of Allwave Receivers advertised, for example, in recent issues of "Radio News," "Short Wave Craft" and other radio magazines, it appears to me they are just about as strong as those made for our SCOTT ALLWAVE DELUXE. I notice that every manufacturer is claiming for his particular set—"The World's Best." It is certain, therefore, that all of the claims made cannot be true, there surely must be *some* difference in the qualities of the various receivers.

So convincing do these advertisements read, and so strong are the claims made in them, that I have gone to the expense of purchasing one of each of the three most widely advertised, and have made careful measurement tests here in the Laboratory, and comparative tests on the air, to see for myself exactly what they would do.

In each and every case their performance was far below that of the new SCOTT ALLWAVE DELUXE. In fact, I had a feeling of keen disappointment for where is the sport in a race or competition of any kind if you know before the race starts, as I know definitely now, that your competitors are so slow you could start after they had gone half way, and *still* beat them to the post? I might also add there was just as big a difference in appearance and workmanship as there was in the performance between these receivers and the new SCOTT ALLWAVE DELUXE.

If there is any question in your mind about the superiority of the new SCOTT ALLWAVE DELUXE over all other Allwave Receivers, take advantage of paragraph 2 of our guarantee which enables you to make the same kind of test I have just made and satisfy yourself.

One of the truest things ever said is this—"You never get more than you pay for." You probably know that it is possible to buy an Ingersoll watch for \$1.00 and you also know that at this price this watch represents remarkable value for the money. If, however, you buy a Waltham watch it will cost you anywhere from \$50.00 up, but this precision made instrument, is well worth the extra price paid because it will keep better time and will give you reliable service for many, many years after the mass production produced Ingersoll has worn out. What applies to the purchase of a watch, applies with equal force to the purchase of an Allwave Receiver.

It seems to me that if I were in the market for a high class product, I would investigate the merits of all in the field pretty thoroughly before I paid my money. In the case of a radio receiver, if it were claimed to be a laboratory built instrument I would investigate to find out definitely *if it actually were built in a fully equipped laboratory*. I would investigate *the number of years the manufacturer had been doing business continuously*, and *the facilities he had to back up any guarantee he made*.

I believe I would ask to be referred to a few people who had been using his receiver, *not for one or two months, but for several years*, to find out just what results they gave in the hands of the average owner over a period of time, and see if the manufacturer really stood behind his product.

I would be particularly careful to read thoroughly every claim made for the receiver, to find out if the manufacturer *supported his*

claims with definite proof. Ever since I started building superheterodyne receivers nine years ago, I have been particularly careful never to make a statement or a claim for a SCOTT RECEIVER that could not be backed up with actual proof. Thruout the literature describing SCOTT RECEIVERS and their performance, you will find no general statements or unsupported claims, but you *will find* authenticated verified records of their performance, made not simply here in America, but from various parts of the world.

For many years I have published, in our technical description, performance curves which showed the Sensitivity, Selectivity and Fidelity of successive models of SCOTT RECEIVERS (the latest performance curves are shown on page 5). These curves enable the skilled radio engineer to tell at a glance the performance the receiver is capable of giving.

SCOTT RECEIVERS are built at 4450 Ravenswood Avenue, Chicago, Illinois in one of the most completely equipped and efficient radio laboratories in the country. In our research laboratory is the very latest precision equipment for making every measurement or test necessary in the design and development of superheterodyne receivers.

If you visit Chicago, I cordially invite you to come up and call on us, when it will be a great pleasure to show you thru every department here where SCOTT RECEIVERS are built and designed, so that you may see for yourself the precision workmanship in a SCOTT RECEIVER, the fine working conditions under which our technicians build SCOTT RECEIVERS, and the equipment used to test them.

It is my suggestion that you make a similar visit to the plants of other radio manufacturers, then I believe you will be in a better position to decide what radio receiver you wish to have in your home.

THE SCOTT GUARANTEE

Our guarantee is backed by an organization that has been in business continuously for nine years, with thousands of satisfied customers, not only in America, but in all parts of the world. It means we are willing to prove in a competitive test, that the new SCOTT ALLWAVE DELUXE is actually the "World's Finest Radio Receiver."

- 1—The new SCOTT ALLWAVE DELUXE RECEIVER is guaranteed for five years. Any unit of its construction (except tubes which are guaranteed by the manufacturer) that becomes defective within this time will be replaced, free of charge, either for parts, material or labor, provided seals are not broken, and that such defect has not developed as a result of misuse or tampering with the instrument.
- 2—The new SCOTT ALLWAVE DELUXE RECEIVER is guaranteed to outperform any other Allwave Radio Receiver available today. If the new SCOTT ALLWAVE DELUXE does not pull in more stations—from greater distances—with more volume—on both the short waves and the broadcast band; if it does not have greater selectivity or does not separate stations cleaner; or if it does not have finer tone quality, I agree to take the receiver back and refund the full purchase price.

SCOTT LEADERSHIP IS EASILY PROVED

The Reception Records established by SCOTT RECEIVERS, and their reputation as the World's Finest Radio Receiver, is not the result of mere chance, but because they are precision instruments of advanced design built to a laboratory standard, and with features incorporated in them not found in other radio receivers. Some of the most important developments in Superheterodyne design have been developed in our research laboratory and pioneered in SCOTT RECEIVERS.

1. The FIRST receiver to successfully use more than one tuned stage in an intermediate amplifier and which set a new standard for Sensitivity and Selectivity in superheterodyne receivers was the SCOTT WORLD'S RECORD SUPER EIGHT, the receiver which established Four Verified World Records on the broadcast band for the reception of stations 6000 to 9000 miles distant.
2. The FIRST receiver to incorporate the 210 power tube was the SCOTT WORLD'S RECORD SUPER TEN. The use of this tube gave the world of radio a new idea of what fine undistorted tone quality meant.
3. The FIRST receiver to successfully use the revolutionary DC Screen Grid tube was the SHIELD GRID NINE, which tuned in stations from Australia, Japan, England, Germany, South America on both the short and long waves.
4. The FIRST ALLWAVE Superheterodyne that tuned from 20 to 550 meters was the same SHIELD GRID NINE.
5. The FIRST ALLWAVE Superheterodyne entirely AC operated was the SCOTT ALLWAVE which used plug-in coils and tuned from 15 to 550 meters.
6. The FIRST ALLWAVE Superheterodyne receiver to efficiently tune from 15 to 550 meters *without* plug-in coils, using a rotary type coil switch, is the SCOTT ALLWAVE DELUXE RECEIVER, today the most efficient means of changing from one wave band to another.
7. The FIRST ALLWAVE Superheterodyne to tune efficiently from 15 to 550 meters with a SINGLE DIAL is the SCOTT ALLWAVE DELUXE, and today it is the *only* Allwave Receiver that perfectly tracks more than one tuned circuit *on the short waves, as well as the broadcast band*, by means of a single dial.
8. The FIRST ALLWAVE Superheterodyne to incorporate in its design the triple grid super-control type 57 and 58 tubes was the SCOTT ALLWAVE DELUXE RECEIVER.
9. The FIRST receiver to employ a perfected system of VISUAL TUNING, that is, a visual indicator projected in the *same* aperture as the tuning dial scale, is the SCOTT ALLWAVE DELUXE RECEIVER now being built.
10. The FIRST and today the ONLY receiver having a USABLE minimum sensitivity of .025 microvolts per meter at 600 KC, and a maximum sensitivity of .006 microvolts per meter at 1400 KC is the SCOTT ALLWAVE DELUXE RECEIVER now being built.
(Note: Many receivers have a fractional micro-volt sensitivity but the noise level in these cases is usually in the order of 80% noise, 20% signal, so making it impossible to use the full sensitivity of the receiver. In the new SCOTT ALLWAVE DELUXE it is less than 10% noise and over 90% signal.)
11. The FIRST and today the ONLY receiver to give 10KC selectivity at 600 *times* to 1 field strength is the SCOTT ALLWAVE DELUXE RECEIVER now being built.
12. The FIRST commercial receiver to be equipped with the Transmission Type Noise Reducing *Short Wave Antenna*, now universally copied in various forms by other manufacturers, was the SCOTT ALLWAVE RECEIVER.
13. The FIRST and today the ONLY Custom Built Superheterodyne ALLWAVE receiver made in a modernly equipped radio laboratory (not factory) in which there is complete precision equipment for making all forms of performance curves and other electrical measurements, and built by skilled technicians, working under ideal conditions, in a modern daylight laboratory.
14. The FIRST Superheterodyne receiver to have all metal parts *chromium plated* and all delicate windings *hermetically sealed or otherwise treated to protect them against extreme climatic conditions* such as humidity, salt sea air, etc. was the SCOTT ALLWAVE DELUXE.
15. The SCOTT LABORATORIES are FIRST and still the ONLY manufacturers of a radio receiver who regularly subject their product to strenuous reception tests on both the short waves and the broadcast band to determine the reception range and performance of their receivers. These tests are carried out under such conditions that the results obtained can be completely verified.
16. The FIRST and still the ONLY custom built ALLWAVE receiver to be *accurately* calibrated within 1% on broadcast band and 3% on short wave bands.
17. The FIRST and still the ONLY manufacturer of custom built ALLWAVE receivers to have all their own exclusive and distinctive console designs.
18. The FIRST and we believe the ONLY radio manufacturer whose policy is, "no yearly models but the immediate adoption of all worthwhile improvements."
19. The FIRST radio manufacturer to build a receiver to such high standards and of such high quality material that he can give an unconditional FIVE YEAR GUARANTEE.
20. The ONLY radio manufacturer who has been designing and building nothing but superheterodyne receivers exclusively for nine years.
21. The FIRST superheterodyne receiver that can be equipped for tuning from 15 *up to as high as 4000 meters without the use of plug-in coils* is the new SCOTT ALLWAVE DELUXE now being built.
(Note: the above is just one more evidence of the advanced features in SCOTT RECEIVERS, as it is quite probable within the very near future that broadcast stations in Canada, Mexico, Australia, and other countries will be transmitting programs on frequencies above the present broadcast band. When this does arrive, the owner of a SCOTT ALLWAVE DELUXE RECEIVER will not find it necessary to buy a new receiver.)

SCOTT OWNERS PROVE OUR WORLD-WIDE RANGE FROM U.S.A.

The most convincing endorsement of any product is that given by one friend to another, who has bought and paid for the article in the regular way, and has had it in actual use. The three gentlemen whose pictures and records are shown below—Mr. A. G. Luoma of Chicago, Illinois, Mr. F. L. Stitzinger of Erie, Pennsylvania and Mr. W. C. Gangloff of Cincinnati, Ohio, are men who heard about a SCOTT RECEIVER, just as hundreds of others have, either by reading some of our advertisements or thru a friend, then sent for our literature and ordered a receiver.

ALLWAVE RECEIVERS, in three different parts of the country, furnish just one more additional proof that a SCOTT RECEIVER will actually give its owner daily world-wide reception, no matter where he is located, for during a period of six months they tuned in and had fully verified 3410 programs from 93 foreign stations located in 32 foreign countries. Between January 1st, 1932 and July 1st, 1932, 280 other SCOTT Owners sent us 15,847 detailed logs from 320 different foreign stations in 46 different foreign countries. All of these detailed logs, including those of Messrs. Luoma, Stitzinger and Gangloff, are on file at the Laboratory, where they may be seen at any time.

These three enthusiastic SCOTT Owners, using regular SCOTT



Mr. A. G. Luoma, Illinois



Mr. F. L. Stitzinger, Penn.



Mr. W. C. Gangloff, Ohio

Below are given the stations and the number of programs tuned in by A. G. Luoma of Chicago, Illinois.

Station	Location	Times Verified
Pontoise	Paris, France	277
F31CD	Saigon, Indo-China	62
HKO	Bogota, Colm.	37
G5SW	Chelmsford, England	23
I2RO	Rome, Italy	46
VRT	Hamilton, Bermuda	73
EAQ	Madrid, Spain	69
HVJ	Vatican City, Italy	58
HKA	Barranquilla, Colm.	54
VK3ME	Melbourne, Australia	41
DJB	Berlin, Germany	53
HKM	Bogota, Colm.	10
VYIIBMO	Maracaibo, Venz.	36
DJA	Berlin, Germany	29
PRADO	Riobamba, Ecuador	23
LSN	Buenos Aires, Arg.	24
KKP	Kauahuu, Hawaii	32
LSX	Buenos Aires, Arg.	45
CMCI	Havana, Cuba	10
VK2ME	Sydney, Australia	26
GBW	Rugby, England	20
CTIAA	Lisbon, Portugal	16
XAM	Merida, Yucatan	19
RABAT	Rabat, Morocco	11
GBU	Rugby, England	10
ZEEZEN	Zeezen, Germany	9
DIQ	Berlin, Germany	11
KKH	Kauahuu, Hawaii	9
HBT	Geneva, Switzerland	7
T14NRH	Heredia, Costa Rica	6
PPQ	Rio de Janeiro, Brazil	11
HKN	Medillin, Colm.	13
HCJB	Quito, Ecuador	7
CMDC	Havana, Cuba	2
PLV	Bandoeng, Java	6
HKT	Manizales, Colm.	5
GTSD	SS Monarch of Bermuda	2
GBS	Rugby, England	5
PRBA	Rio de Janeiro, Brazil	3
GBB	Rugby, England	3
KEQ	Kauahuu, Hawaii	6
JIAA	Kemikawa, Japan	1
LSG	Buenos Aires, Arg.	2
NATIONAL	Geneva, Switzerland	1
GFVV	SS Majestic	1
HBJ	Geneva, Switzerland	2
LSY	Buenos Aires, Arg.	2
HBP	Geneva, Switzerland	1
PPU	Rio de Janeiro, Brazil	1
CT3AG	Funchal, Madeira	1
DHO	Nauen, Germany	2
GBX	Rugby, England	1
GBY	Beckenham Kent, Eng.	1
G5WY	Rugby, England	1
GAU	Rugby, England	1
GBT	Rugby, England	1
Trans		
Radio	Buenos Aires, Arg.	1
PLW	Bandoeng, Java	1
HKE	Medillin, Colm.	1
LR4	Buenos Aires, Arg.	1

Below are given the stations and the number of programs tuned in by F. L. Stitzinger of Erie, Pennsylvania.

Station	Location	Times Verified
Pontoise	Paris, France	387
G5SW	Chelmsford, England	34
HKA	Barranquilla, Colm.	131
I2RO	Rome, Italy	62
HKF	Bogota, Colm.	109
VYIIBMO	Maracaibo, Venz.	91
HKO	Medillin, Colm.	20
EAQ	Madrid, Spain	84
DJA	Berlin, Germany	101
HKM	Bogota, Columbia	50
LR4	Buenos Aires, Arg.	1
DJB	Berlin, Germany	53
VK3ME	Melbourne, Australia	46
KKP	Kauahuu, Hawaii	46
OXY	Skamlebank, Denmark	42
F31CD	Saigon, Indo-China	37
GBW	Rugby, England	32
VRT	Hamilton, Bermuda	31
VK2ME	Sydney, Australia	25
PRADO	Riobamba, Ecuador	24
GBU	Rugby, England	25
CMCI	Havana, Cuba	24
LSX	Buenos Aires, Arg.	19
RABAT	Rabat, Morocco	17
LSN	Buenos Aires, Arg.	16
GBS	Rugby, England	14
CTIAA	Lisbon, Portugal	13
PLV	Bandoeng, Java	11
HKE	Medillin, Colm.	3
HCJB	Quito, Ecuador	5
T14NRH	Heredia, Costa Rica	8
DAN	Norddeich, Germany	4
DIQ	Berlin, Germany	6
OPM	Leopoldville, Bel. Con.	4
HKT	Manzilas, Colm.	4
GBB	Rugby, England	4
GBC	Rugby, England	3
HBJ	Geneva, Switzerland	1
ORK	Brussels, Belgium	2
IGGZ	SS Saturnia	1
DGK	Berlin, Germany	1
PCV	Kootwijk, Holland	1
G5BY	Croydon, England	1
LSR	Buenos Aires, Arg.	2
PMC	Bandoeng, Java	1
K6XO	Honolulu, Hawaii	4
PLE	Bandoeng, Java	1
DGK	Berlin, Germany	1
TGX	Guatamala, Guatamala	1
PMY	Bandoeng, Java	1
KDK	Kauahuu, Hawaii	2
HBL	Geneva, Switzerland	1
EAN	Madrid, Spain	2
Total number of programs verified		1588
Number of Foreign Stations heard		41
Number of Foreign Countries heard		22

Below are given the stations and the number of programs tuned in by W. C. Gangloff of Cincinnati, Ohio.

Station	Location	Times Verified
HKA	Barranquilla, Colm.	112
EAQ	Madrid, Spain	78
HKO	Medillin, Colm.	21
HKN	Medillin, Colm.	37
Pontoise	Paris, France	102
G5SW	Chelmsford, England	1
VK3ME	Melbourne, Australia	46
I2RO	Rome, Italy	49
VK2ME	Sydney, Australia	30
PRADO	Riobamba, Ecuador	20
LSX	Buenos Aires, Arg.	12
DJB	Berlin, Germany	14
RABAT	Rabat, Morocco	4
VYIIBMO	Maracaibo, Venz.	8
PPQ	Rio de Janeiro, Brazil	3
CMCI	Havana, Cuba	9
CTIAA	Lisbon, Portugal	7
GBU	Rugby, England	2
T14NRH	Heredia, Costa Rica	4
KKH	Kauahuu, Hawaii	4
HCJB	Quito, Ecuador	3
GBS	Rugby, England	2
XAM	Merida, Yucatan	1
DGK	Berlin, Germany	2
ZLW	Wellington, N. Z.	2
IAC	Coltana, Italy	1
Koenigswusterhausen	Berlin, Germany	2
HBJ	Geneva, Switzerland	2
OXY	Skamlebank, Denmark	1
RV38	Moscow, Russia	1
WSBN	SS Leviathan	1
DJA	Berlin, Germany	1
K6XI	Kauahuu, Hawaii	1
DIQ	Berlin, Germany	2
G5WY	Beckenham Kent, England	1
HBL	Geneva, Switzerland	1
HBQ	Geneva, Switzerland	1
KEQ	Kauahuu, Hawaii	1
F31CD	Saigon, Indo-China	1
K6KO	Honolulu, Hawaii	1
RV15	Khabarovsk, Russia	1
REN	Moscow, Russia	1
GBW	Rugby, England	1
Total number of programs verified		592
Number of Foreign Stations heard		42
Number of Foreign Countries heard		22
DAN	Norddeich, Germany	1
Koenig	Berlin, Germany	5
Palo Alto	Mexico	2
EAJ7	Madrid, Spain	2
HKS	Cali, Colm.	1
Total number of programs verified		1261
Number of Foreign Stations heard		75
Number of Foreign Countries heard		26

SCOTT OWNERS IN FOREIGN COUNTRIES PROVE WORLD-WIDE RANGE

The reputation of SCOTT RECEIVERS have for many years been well known in practically every corner of the globe, for they are in daily use in 86 different foreign countries. They are giving their owners, many of whom are located in remote sections, far distant from broadcast

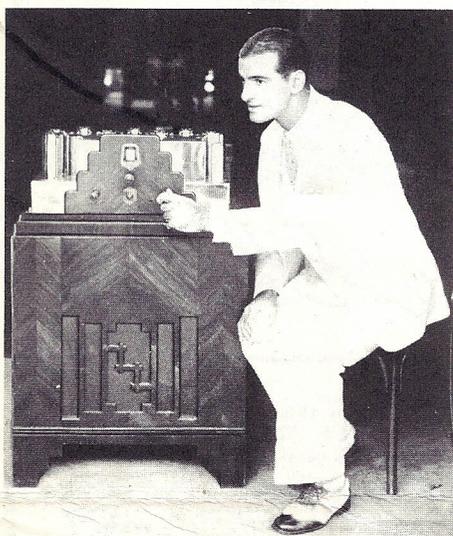
stations, radio reception for the first time. Below I have space to reproduce just a few of the many hundreds of enthusiastic letters in our files from owners of SCOTT RECEIVERS in all parts of the world.

CHINA

"It is impossible to put in writing the pleasure I receive with my set, especially in a place like Swatow, China, where you are more or less cut off from the outside world. Long wave reception on this set is perfect and, of course, it is very easy to tune in on any of the Oriental stations. I am very interested in the short wave receptions and foreign stations and have had wonderful results in tuning in short wave stations from all over the world."

M. H. Varn—Swatow, China.

ECUADOR



"We cannot add a thing to the greatness of the SCOTT ALLWAVE but can only remark that Ecuador has not seen or heard a better radio. Conditions for reception in this country are far from satisfactory. However, the SCOTT has performed wonderfully and undoubtedly we have to concede its supremacy."

"In a previous letter we have given testimony as to the performance of the SCOTT ALLWAVE DELUXE and there is nothing more that we can add except the fact that our orders to you and the orders now pending show the superiority of the SCOTT ALLWAVE above all others in this locality."

Levy Hnos—Guayquil, Ecuador.

HOLLAND

"I have been able to get on the S.W. band at full loud speaker strength—Schenectady—Springfield, Philadelphia—Boundbrook, Pittsburgh and Boston, besides any number of American stations on the broadcast band."

Theo. C. Dentz—Amsterdam, Holland.

GREECE



"After making exhaustive tests with your receiver in comparison with many competitive makes, I must admit that the SCOTT is a marvelous apparatus, the best radio receiver I have heard so far. There is no question of doubt that the SCOTT indisputably imposes itself on the market thanks to its extraordinary qualities."

Menelas A. Metaxa—Athenes, Greece.

INDO-CHINA

"Your receiver is surprising me more and more every day. It is really marvelous. Every day I get a new station. There is no radio equal to it in Indo-China."

Etalissements Bainier—Saigon-Indo-China.

PERU

"You may be interested in knowing of an experiment I made a few days ago. There was a terrific electric storm in progress here such as can only be witnessed in the high Andes, and with the antenna connected to the set the static was too great to receive anything. I disconnected the antenna and merely left the ground and the leads from the tuner connected and got perfect loudspeaker reception from W2XAF with the volume control only turned on very little. I cannot praise the set too highly and you may know that I am more than satisfied with it."

R. P. Darnell—Cerro de Pasco, Peru.

ITALY

"I can assure you that I am acquainted virtually with the entire world production as far as radios are concerned but none of them can be compared with yours for its splendid reproduction and low noise level."

"My best congratulations, Mr. Scott, for the perfect radio you have developed. At this time I want you to accept my sincere and cordial congratulations for an apparatus that is an honor to the industry of your country."

Rino Boggio—Biella, Italia.

SOUTH AFRICA



"The SCOTT ALLWAVE DELUXE has just arrived and we feel we must express our heartiest congratulations. Distant stations were brought in with volume equal to the local station and the absence of fading was remarkable. We are delighted with its performance, and say without a doubt, the future of SCOTT RECEIVERS in this country is assured. Accept our congratulations on a masterpiece, we are as enthusiastic over it as a school boy would be with a new football."

A. R. Kennedy—Johannesburg, S. Africa.

PANAMA

"In spite of an inefficient antenna, I have been able to tune in Germany, Spain, England, Australia, France and all of the Central American stations."

Arthur L. DuSaire—Panama City, Rep. of Panama.

The SCOTT NEWS
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E. H. SCOTT RADIO LABORATORIES
 4450 Ravenswood Ave.
 Chicago
 E. H. SCOTT, Editor

After an absence of nearly three months, it feels good to be back in the Laboratory once more. The research cruise to Australia and New Zealand which I have just finished, was full of interesting experiences from beginning to end. At the present time I am busily engaged going thru my notebooks compiling a complete description of the results obtained day by day thruout the trip. This will be published shortly in the form of a brochure, and I am sure you will agree that the results obtained give ample proof that the SCOTT ALL-WAVE DELUXE RECEIVER is the finest and most efficient in the world today.



E. H. SCOTT

WHAT ABOUT NEW MODELS?

While I have been away many letters have been received at the Laboratory asking whether we intended bringing out another new model. My answer to that is emphatically NO!

If you could analyze the difference between the old models and the supposedly new models introduced every six months or so by many radio manufacturers, you will find the principal difference in them lies in the design of the console. From time to time new models of receivers have been announced by radio manufacturers and the only excuse for this has been the adoption of some new tube or gadget.

CONSTANT IMPROVEMENT— BUT NO YEARLY MODELS

Our policy here at the SCOTT LABORATORY is: *Constant improvement but no yearly models.* When new tubes are brought out we do not wait for months to incorporate them in our receiver. As soon as laboratory tests have proven that they will increase the efficiency of our receiver they are *immediately* adopted.

During the past 12 months I say, without fear of successful contradiction, that there have been no revolutionary or even outstanding developments in radio design. It is true minor refinements have been made and efficiency increased slightly in various ways, but these have been comparatively unimportant developments and certainly nothing that would justify the announcement of a "new" model.

If proof is needed of the advanced design of the original engineering that has gone into all SCOTT models during the last eight years you will find that proof on page 9.

HOW TO GET THE FACTS ON ALLWAVE RECEIVERS

Practically every day in the week letters are now coming to the Laboratory asking how a SCOTT RECEIVER compares with a . . . receiver. To these inquiries my answer has invariably been to send two technical questionnaires—one with our answers filled in and the other a blank questionnaire. This questionnaire asks 80 very pertinent questions

about a radio receiver. I suggest to the inquirer that he send the questionnaire with blank spaces below the questions to the manufacturer of the receiver he wishes to compare with the new SCOTT ALLWAVE DELUXE, and ask him to answer the questions set out, then, when this is returned compare the answers given in both questionnaires. In this way, the inquirer has very solid information on which to base his decision as to which Allwave Receiver he wishes to buy. On page 8 you will find some more ideas that may assist you in making a decision intelligently on the merits of the various receivers now being offered.

The authentic verified reception records made by SCOTT RECEIVERS, and which have never even been attempted by any other radio manufacturer, is just one of the answers we here at the SCOTT LABORATORY offer to the layman to help him decide what kind of a receiver he wishes to purchase.

For the radio engineer we have another kind of answer, which is perhaps more convincing to him, and that is laboratory measurement curves. It is a simple matter for those who are technically inclined to make a decision if they have the operating curves of the various receivers under consideration before them.

A radio engineer knows what field strength ratio and KC off resonance means in the measurement of SELECTIVITY. He knows what microvolts per meter and percentage of noise to signal means when comparing SENSITIVITY. He understands the meaning of decibels in the determination of TONE QUALITY. The radio engineer will find proof that will amply satisfy him on page 5.

WHY WE GIVE BOTH TECHNICAL AND ACTUAL TEST PERFORMANCE PROOFS

But operating curves are "over the head," so to speak of the layman listener, and this is one of the reasons why, in addition to publishing Sensitivity, Selectivity, and Fidelity Curves, so that the technically inclined, or the expert radio engineer may have a means of comparing the SCOTT ALLWAVE

DELUXE RECEIVER, I have from time to time made various reception tests, to prove to the non-technical radio enthusiast the kind of performance a SCOTT RECEIVER is capable of giving on both the SHORT WAVES and BROADCAST BAND.

MARKET CONDITIONS INDICATE PRICE MUST BE INCREASED SHORTLY

During the months I have been away, many interesting things have happened—there has been a bank moratorium—the inflation—and just recently the papers announced U. S. A. was definitely off the gold standard.

Already the prices of a large number of products have begun to rise and this has been unavoidable because the price of all raw materials has advanced sharply within the last 60 days. For example: as this editorial is being written, copper is 8c per pound as compared with 4 3/4c per pound as quoted a few weeks ago, nearly double the price. On June 6th automobile tire manufacturers for the second time in 60 days, increased all prices of tires from 8% to 14%, on account of the fact that the price of raw rubber had increased so tremendously that it has been found impossible to maintain the old prices. Due to the inflation, it is not given to me or anyone else at this time to know exactly how high prices are going to go, but unquestionably they must go upward sharply if the prices of raw materials keep going higher.

If you are now considering the purchase of a SCOTT RECEIVER I would most urgently advise you to place your order at once if you wish to avoid the higher price the changing market conditions will undoubtedly force me to establish in the very near future. Orders at prices shown in price list attached can only be accepted as long as raw materials remain at present levels.

We believe sufficient information has been given in this issue of the SCOTT NEWS to prove the superiority of the new SCOTT ALLWAVE DELUXE RECEIVER. However, for those desiring it, we have prepared several booklets going into more detail. If you desire further information check the booklet required, and it will be mailed to you promptly.

- "COMPLETE TECHNICAL DESCRIPTION"— A 12 page booklet giving complete technical details of the SCOTT ALLWAVE DELUXE chassis, amplifier and speaker.
- "SCOTT CUSTOM BUILT CONSOLES"— A 12 page brochure illustrating seven of the custom built consoles especially designed for the SCOTT ALLWAVE DELUXE RECEIVER.
- "PERFORMANCE PROOFS"— A 24 page booklet describing some of the outstanding and remarkable verified performance records established by SCOTT RECEIVERS.
- "LABORATORY BOOK"— A 24 page booklet illustrated with a large number of views in our Laboratory and completely describing the conditions under which a SCOTT ALLWAVE DELUXE RECEIVER is built and tested.
- "TECHNICAL QUESTIONNAIRE"— A questionnaire that has been compiled to enable the layman radio enthusiast to form an intelligent opinion on the merits of Allwave Receivers. 80 different questions are asked about a radio receiver.

E. H. SCOTT RADIO LABORATORIES, INC.
 4450 RAVENSWOOD AVENUE
 CHICAGO, ILLINOIS.

Kindly send the booklets marked above to:

NAME _____
 ADDRESS _____
 CITY _____ STATE _____