



PROOF

*of Consistent
Foreign Reception*



F FOREWORD

THE really great creations of human endeavor reach their first recognition in demonstration by their own builders. Thus, there came roaring through the air, amidst the countless ordinary planes that daily ply the skies, the Red and White Monoplane piloted by its dauntless, able designer, Major James Doolittle at the dizzying speed of 302 miles per hour. A new record is made, a new challenge to advanced designing and precision engineering in a field already famous for its amazing accomplishments.

Likewise, Miss America IX piloted by its undefeated creator, Gar Wood, roars across the finish line ahead of all the world's previous best at 126.9 miles per hour to establish another new record in speed on the water. And, another mark for advanced designing and precision engineering is set up for others to follow.

So, it seemed entirely appropriate to me that it should fall to my lot the task of demonstrating a new radio receiver of exceptional power and excellence—the SCOTT ALLWAVE.

For many years my sole ambition has been—not to see how many thousands of receivers I could make per day—but to build one so advanced in design—to such a high standard of precision engineering—that its performance would be unequalled by any other radio receiver.

Just as Jimmy Doolittle has demonstrated to the airplane world by actual performance, the advanced design in the planes he builds, and Gar Wood has shown to the speed boat world for many years that the boats he designs and builds are the fastest that skim the waters, so in the following pages you will find a story of performance which proves to the world of radio that a SCOTT RECEIVER still holds the title it established nearly eight years ago—the WORLD'S FINEST RADIO RECEIVER!

'ROUND THE WORLD RECEPTION

A Sensational Test Proves Absolutely World-Wide Reception Is Possible Every Week in the Year—
Regardless of Atmospheric Conditions

During the last three or four years such tremendous strides have been made in the efficiency of short wave transmitting stations, that today few people realize it is just as easy, with the right kind of receiver, to pick up foreign broadcasting stations on the other side of the world, as it is those in the United States.

While the transmitting engineers were at work improving the efficiency of their transmitters, my associate engineers and I were working night and day to perfect the design of a receiver to bring in the transmissions from these stations in far-off parts of the world. How successful we have been the following pages will show.

The tuning in of the stations in foreign countries is now just as easy—actually—as tuning in local stations, and I have built and sold many hundreds of receivers for customers in U. S. who wished to tune in broadcasting stations in other countries. I told them exactly where dozens of these foreign stations were to be found on the dial, and they too, were soon listening to them—Listening not merely with a pair of headphones, but with fine loud speaker volume.

The British Broadcasting Company operates a short wave transmitting Station—G5SW—and from there transmits programs especially for English subjects in the Dominions. Soon Scott Owners became as familiar with the programs from this station as they were with the programs from their local stations. I would not even venture a guess as to how many Scott Owners in the United States have rolled back the rugs and danced to music direct from the Hotel Mayfair Orchestra in London—and the voice of Big Ben striking the hour of Midnight soon became as familiar to them as it was to the Londoners themselves.

The French station at Pontoise can be tuned in practically every afternoon in the week, and broadcasts both in English and French.

Germany has one of the finest short wave stations in the world at Zeesen and nearly every morning you can listen in to fine programs of classical selections played by wonderful Symphony Orchestras or world famous musicians.

Yet, strange to say, few people really believed me when I told them my receivers were actually bringing in, right here in Chicago, broadcast stations on the other side of the world, not just now and again, but consistently, day after day. When I told them I listened *regularly* to stations in Australia, England, France, Germany, Italy, Spain, South America and other foreign countries with loud speaker volume, they looked at me with the same skeptical look in their eye as the fisherman sees when he tells the story of his prodigious catch—No one believes him!

Most people seemed to think such reception was not possible, but just one more of the exaggerated claims of an over-enthusiastic radio manufacturer. But after these same people actually had had the pleasure of hearing this reception on a Scott Receiver direct from foreign countries, they expressed their complete amazement, and always ended up with the statement that unless they had actually heard it with their own ears, they would never have believed it possible.

Then most of them told me they were sure that if it were possible for the general public to hear what *they* heard, I would never be able to build enough receivers to meet the demand there would be for them.

As more and more Scott Receivers were shipped, and Scott Owners demonstrated them to their skeptical friends, their fame rapidly spread. Today, I



The Home
Where Tests
Were Made

E. H. Scott
with First apparatus
for recording
Australian programs



am proud to say they are in daily use in 75 different foreign countries.

For months I struggled with the problem of how I could prove—in an absolutely positive and conclusive way—to not just one or two people who could be given an actual demonstration—but to everyone—that world-wide reception with a *Scott Receiver* was something more than a mere advertising claim—that it was an actual fact.

I then began an investigation to find out just what was the most distant foreign station from Chicago that transmitted a regular program. I found it was Station *VK3ME*, Melbourne, Australia. Now then, I thought—"How am I going to prove absolutely—without any question—that it is possible to bring in this station over 9,500 miles away regularly and with loud speaker volume?"

One morning I was listening to Melbourne, when Mrs. Scott, perhaps a trifle irritated at having her slumber interrupted, called down and asked me to turn down the volume a little so that she could go to sleep again. She said she couldn't see why I wanted to listen to the price of wool, the local happenings in Melbourne and Australia and music from phonograph records, just because they were played from a station in Melbourne.

Then, like a bolt out of the blue, came the idea which has enabled me to *prove*, beyond any question of doubt, that *Scott Receivers* will actually bring in stations from all parts of the world, every week of every month of the year.

Here was the idea—A phonograph record—How was it made? Why, on a recorder—Then, why couldn't I build a recorder and actually make records of the programs sent out from *VK3ME*, Melbourne, Australia, as well as making detailed logs of them? These speaking records would give the call letters together with the actual selections of the programs from the station and provide proof so positive and sensational that it would substantiate absolutely my claim that regular world-wide reception was not a mere advertising claim but an actual fact. The idea took hold of me, and I immediately got busy assembling the necessary equipment.

The photograph on the opposite page gives a very good idea of the first apparatus I built to record the Australian programs. The recorder itself is installed in the black case on the right. A special blank aluminum disc is used to record the programs. After the station is tuned in on the speaker, a switch is thrown which transfers the signal from the speaker to the recorder.

I wanted these records of the programs to be just as fine as possible. To insure this I used a power level indicator, which is shown directly in front of the black case, to check the volume of the signal as it was being recorded. This apparatus indicates the strength of the signal received. It may be a surprise to you to learn that a very large number of programs, not only from Australia but from other foreign stations are received with so much strength that if they were recorded at their full volume, the cutting head would dig in so deep, the record would be spoiled. Ample volume was generally secured with the volume control turned on only about half way.

Each of the records made has the number, time of the day, and the date the record was made scratched on it. In this way, my detailed written logs can be used to check against the aluminum records. At last, I was ready and the tests which were to extend over a full year commenced: 5:30 a.m.—June 6th, 1931—A flick of the switch—An adjustment of the tuning dial—and in came *VK3ME*—the test was on!

I tried to think of everything that would make the records of this test the most authentic possible, so I installed, above my radio, an electric clock which was accurate to within a few seconds. This can be noticed sitting on top of the speaker cabinet. This clock has enabled me to note with accuracy the time each of the announcements of the station were made, the time each selection was started, etc. When the logs were sent to station *VK3ME* later, they could be checked with exact accuracy. The logging and recording of that first program on June 6th, 1931 will probably go down in my memory as one of the most thrilling in all my radio experience, for it was the start of the severest reception test any radio receiver has ever been put through.

As I recorded that morning, I remember my mind kept racing ahead—"How many programs could I log and record regularly during the next few months?" At that time I had no thought of carrying on the test for a full year.

At last the program ended. I took the first record made, and prepared to play it back on the phonograph. A flip of the switch, and clear and loud, just as the program had come out of the ether a few minutes before,



VK3ME

Broadcasting Station at
Melbourne, Australia

Chicago, 9650 Miles
Away, Where
Programs Were
Received



the program was reproduced for me. I knew then that I had found the way to prove to the world that *Scott Receivers* were able to give their owners daily world-wide reception.

VK2ME, Sydney, Australia came in just as clearly every Sunday morning as did *VK3ME* in Melbourne with its Wednesday and Saturday programs. So I thought—"Why not make the test doubly certain by tuning in and recording *both* of the stations in Australia?" So, on July 5th, 1931 I started to log and record the transmissions from *VK2ME*, and it is now a matter of history that during the whole Twelve months, *I Logged and Recorded Every Single Regular Program They Put on the Air*.

Sometimes, of course, there were minor disappointments. Occasionally, a program would not come through as loud or as clear as I felt it should have. Yet, every program always came through distinct and clear enough to log and record and prove every day's reception. The test was succeeding beyond my most optimistic dreams. Then came the day when I began to receive back from *VK3ME*, Melbourne, verifications of my logs. The first logs were received in Melbourne on the 10th of July, 1931 and Mr. Johnston, Chief Engineer of this station replied as follows:

"We have received your letters of the 1st and 6th of June respectively and wish to thank you for the interesting reports you have given us of our experimental station, VK3ME. Your report of the 6th of June in particular is an excellent one and we are very glad to think that VK3ME can be received so well in Chicago."

Then again on the 22nd of July, Mr. Johnston wrote:

"We are able from your reports to form a very good idea of how VK3ME is being received in your locality and are glad to observe you are able to log us with such detail. It is certainly an advertisement for your receiver as well as our transmitter."

At last a solid month's reception has been recorded on the aluminum disc records and I sent to Australia half of these records, in addition to the detailed logs of each program. The other half of the records of each transmission are being retained here at the Laboratory. Carefully packed the first parcel of records was sent to *VK3ME* and on August 6th, 1931 here's what they wrote after receiving them:

"We have just received the 21 records which you have so kindly forwarded. We would like to thank you particularly for the records and for the detailed logs with them."

"The records were certainly the most interesting data about 3ME's transmission we have ever received and are of the utmost value as proof of how VK3ME is being received by you."

"It is certainly surprising to us to learn first hand with what volume VK3ME reaches you and it is all the more surprising when it is remembered that the power of this station is not more than 2 kw."

"On going through our file of reports we find you have not missed a single transmission from June last and the majority of your reports contain so much detail that it is evident you have hardly missed a single item."

"The records of the Rotary Club proceedings were of special interest and we are quite sure that the members of the Rotary Club will be delighted when these records are played over to them at their next gathering."

The mention made of the records of the Rotary Club are especially interesting as evidence of some of the unusual programs you can hear from stations in other parts of the world. On June 25th, the Rotary Club of Melbourne gathered around a microphone in that city at 9:00 p.m. in the evening. In another room, 9,500 miles away, at Schenectady, New York, in the United States, another group of Rotarians were also gathered around a microphone, but it was just 6:00 a.m. in the morning of the same day, and this group was going to have their voices transmitted to Melbourne by station *W2XAF* at Schenectady. In Melbourne, night had fallen, but it was early morning of the same day in New York, for as perhaps many of you know, Australian time is 15 hours ahead of United States time.

News of this unique meeting between the two Rotary Clubs so many thousands of miles apart reached me a few days in advance, so I arranged to take out to my home a second receiver. My regular receiver connected to my recording outfit, I tuned to *VK3ME* which transmitted the voices of the Rotarians in Melbourne; the second receiver I tuned to *W2XAF* in Schenectady, New York. Between 5:15 a.m. and 6:00 a.m. I listened to the Engineers of *VK3ME* and *W2XAF* as they talked back and forth arranging details of the transmission. Here is the log I made as they arranged their program and got their transmitters lined up:

5:15 a.m. Picked up *W2XAF* calling *VK3ME*.

5:16 a.m. *VK3ME* replied and *W2XAF* wished Mr. Johnston good morning. *W2XAF* then went on the air with a record.

5:20 a.m. *VK3ME* is now playing a record.

5:24 a.m. This record is an Operatic selection and coming in very good.



*Transmitting Room of
VK3ME
Melbourne, Australia*

*Mr. Scott receiving
VK3ME
Program at Chicago*



5:32 a.m. *VK3ME* calling *W2XAF*.
 5:34 a.m. *W2XAF* calling and informing *VK3ME* that they are getting a good signal from them.
 5:37 a.m. *VK3ME*'s and *W2XAF*'s Engineers check the time—8:39 p.m. Melbourne time; 5:40 a.m. U. S. time. You then talked back and forth giving information on the details of the program.
 5:50 a.m. *VK3ME* called—"Hello, *W2XAF*, Hello, *W2XAF*."
 5:52 a.m. *W2XAF* replies and the Engineers are now talking back and forth. *W2XAF* is informing you that your signal is coming in good.
 5:34 a.m. *VK3ME* and *W2XAF* check time again—Three minutes to 9:00. *VK3ME* informed *W2XAF* they were going to change to the microphone in the room above.
 5:55 a.m. *VK3ME* informed Engineer of *W2XAF* that he was standing by now and that he had switched to the microphone upstairs.

Then, promptly at 6:00 a.m. the real meeting started.

I did not make any further written log, but commenced to record the entire reception as it came from Melbourne, and these records are the ones referred to in Mr. Johnston's letter.

To go on with the meeting:

A Rotarian in Melbourne came on the air and said a lot of nice things to the Rotarians in America. He remarked about the fact that this was the first combined meeting of Rotary Clubs in different countries and hoped that the next time they held such a meeting there would be television so that they would be able to see as well as hear each other.

After this talk was finished the Rotarians in Schenectady decided they would sing a typical American song to their brothers in Melbourne. The whole crowd gathered around the microphone and sang "Maryland, My Maryland," and it winged its way across air, sea and land to far away Melbourne. After this song was finished a speaker talked from Melbourne and told the Schenectady Rotarians that their song had been enjoyed very much and that they had an Australian song they would like to sing, whereupon, they sang "Mathilda."

These songs got across so well they decided they would like to sing a song together and the "Long, Long Trail" was suggested. As the suggestion for the combined song came from Melbourne, the pianist in Melbourne struck up the introduction on the piano, after which both Clubs began to sing the "Long, Long Trail," the Schenectady members getting their accompaniment out of a loud speaker from a piano played in Melbourne. After this, the speakers of both Clubs exchanged some personal messages, and the meeting was closed.

Just here I would like to tell you that the speakers before the microphones in Melbourne and Schenectady talked back and forth to each other just as freely and easily as you talk back and forth over an ordinary telephone. Instead of having two people at the end of the telephone line, however, the Rotarians were in front of the microphones of two great broadcasting stations located on opposite sides of the world. Instead of having their words carried by wire, they were transmitted over the air. In a letter to me, Mr. W. Rose, Past President of the Melbourne Rotary Club, and incidentally one of the speakers on the program wrote:

"As one of the performers at our end, it was quite sufficiently terrifying to realize that my words were being listened to all over the world. The fact that they have been recorded permanently makes me wish that I had been a bit more careful in what I said."

Naturally, during the 12 long months this test was carried on, reception on some days was better than on others, but one of the most interesting and startling features was that no matter how bad atmospheric conditions were, I was always able to bring in each program with sufficient clarity to make a good log of the transmission. On the 17th of August, 1931, *VK3ME*'s Engineer wrote:

*"We are particularly pleased to notice that in your letter of July 4th you comment on the fact that *VK3ME* came through excellently in spite of the very bad static you were experiencing at the time."*

Program followed program. Week after week, proof of the *Scott Allwave Receiver*'s unequalled distance-getting ability was piling up.

Chicago mornings were getting crisply chill. I shivered now and then as I would leap out of my cosy bed to tune in the Melbourne and Sydney programs.

Perhaps, you are saying that Winter reception ought to be good, and that I had picked the best time of the year to make such a test. But, let me tell you that this is not so. When the leaves wither and fall in



*The Rotary Club
 in Melbourne sings
 the "Long, Long Trail"*

*With the Rotarians
 at Schenectady
 joining in the song*



Chicago they are just beginning to peep forth in Australia. When it is Winter in America, it is Summer in Australia. Weather conditions throughout the year are very much the same taken over the entire distance excepting that half of the year it is cold in one country and warm in the other and vice-versa. The *Scott Receiver* wasn't spurning distance alone in this remarkable test, it was leap-frogging the seasons and reversing the calendar too.

By this time news of the test began to get around and a number of people came up to the Laboratory and asked to hear some of the records I was making of my reception of the Australian stations. It takes all kinds of people to make a world. One day one of the men who heard some of the records, made the suggestion that it would be very easy to make a number of records on a good morning and spread them over a number of transmissions. This had not occurred to me before, but I thought that perhaps if it had occurred to this man, it might occur to others, so I immediately wrote Mr. Johnston, Chief Engineer of *VK3ME* and asked him, when he gave the station call letters, to also give the time of the day, the day of the week and the date.

On October 28th he replied as follows:

"We particularly note the suggestion contained in your letter regarding giving the date as well as the day when we are announcing the time. We thank you for this suggestion which will be put into effect forthwith."

From that date on every second or third announcement contained not merely the call letters, but also the time of the day, the day of the week and the date.

So that you may get an idea of the way the announcements were made from then on, and also the detail with which each program was logged, I am giving below a part of the log for the 25th of November, just shortly after Mr. Johnston included the date in his announcements.

4:30 a.m. Coming in with local volume. It is a vocal selection—"Rocked in The Cradle Of The Deep"—I am recording this on No. 1 record.

4:32 a.m. *VK3ME*—Time is 32 minutes past 8:00 Wednesday, 25th of November. You then read some news from Canberra—Something about an unemployment relief fund. You then announce your next gramophone record—a Fox Trot. Recording Fox Trot on No. 2 record.

4:39½ a.m. *VK3ME*—You are talking about the alteration in the schedule of *VK2ME* and asking listeners if they have heard about the alteration. You then made quite a little talk and gave the new time schedule. I recorded this complete announcement. At the end of this you announced a violin solo—"Souvenir."

4:45 a.m. Your signal is coming through fine. The violin solo is now coming in perfectly—You can get every shade of tone.

4:46 a.m. *VK3ME*—The time is 14 minutes to 9:00 p.m. Wednesday, 25th of November. You then read some more news about providing for the unemployed in December. Announced your next selection—an Orchestral one from the Opera "Rigolotto."

You will note from the above log how clearly these programs were received. They came in with more volume than could be used in an ordinary room.

Just let me say here, that during the whole 12 months of the test I failed to log and record only three transmissions. This was not caused by any failure of the receiver, but by a code station on the East Coast that got slightly off its wave length for three mornings and so interfered, making reception from Melbourne impossible. I complained to the radio supervisor in Chicago but it took a few days before the interference could be eliminated.

My pile of logs began to grow taller and taller, and instead of one album in which to keep my aluminum records, I now had four. Snow now mantled the ground, and it began to be no joke to get out from under the bed covers for these early morning tests, but the letters that came from Australia verifying each of the logs and records provided some compensation.

Batch after batch of aluminum records were shipped to Melbourne and Sydney, and the letters from the Engineers of *VK3ME* and *VK2ME* became more enthusiastic as time went on.

By now it was December and the test became doubly interesting. On the 8th of December in verifying some of the November logs Mr. Johnston wrote as follows:

*"It is gratifying to think that you have now completed the 5th consecutive month of reception from *VK3ME* and we think that this is a record that will take some beating."*

By now this sensational demonstration of the ability of a *Scott Receiver* was something that was firing the enthusiasm of every member of my organization. I began to think of other ways in which I could prove to even the most skeptical that here at last was a receiver that could back up every single claim made



"Hello Mr. Scott!"

"Hello Mr. Johnston,
Here's How
VK3ME
Sounds in Chicago"



for it. During the latter part of 1931 a commercial long distance telephone circuit was opened to Australia. I had been writing these Australian stations and they were becoming as enthusiastic as I over the results secured. The thought occurred to me that it would be a nice thing to call up Melbourne by phone, wish them a Merry Christmas and at the same time let them hear their program as I was receiving it in Chicago. No sooner said than done. I put in a call, but unfortunately the telephone circuit to Australia did not appear to be quite as consistent as my direct reception. It was Saturday, January 23rd, before a connection was finally made. The following is in part the conversation that ensued:

"Hello, Mr. Johnson"

Faint and far away sounding came the voice of the Australian Engineer in reply:

"Hello, Mr. Scott"

After I had congratulated him on the efficiency of his transmitter, I told him I would like him to hear how his signal sounded in Chicago. Mr. Johnston got what he said was one of the greatest thrills in his experience. At the time I called him he was just getting ready to transmit his regular program, so he put a selection on the air and I went to the receiver and tuned in *VK3ME*. Then I placed the telephone mouth piece in front of the speaker, turned up the volume and Mr. Johnston had the unique experience of listening to music from his station *after it had travelled to Chicago and back again to Melbourne*, a distance of approximately 24,000 miles—Time taken—one-eighth of a second.

The photograph shows how the signal from Melbourne was sent back to Mr. Johnston, by holding the telephone mouthpiece in front of the speaker. You will note in this photograph the special console I had built to hold two receivers. The idea for its design came to me after the Rotary Club experience mentioned before in which I used one receiver to tune in Schenectady and the other receiver to tune in Melbourne. You will also note in the center of this console, my new recorder which I had built into the cabinet, and the electric clock which is built into the center panel. To make the results secured from the test interesting, not only from the reception point of view, but from a scientific point of view as well, I took barometer and temperature readings each morning and the instrument used will be noted just above the recorder. About 15 minutes after I had hung up the telephone receiver and was listening to the regular program from *VK3ME*, the following announcement came over the air from Melbourne:

4:41 1/2 a.m.—"*VK3ME*, Experimental Station of the Amalgamated Wireless, Australasia, Ltd. Melbourne. The Melbourne time is 42 minutes past 8:00 p.m. Saturday night, 23rd of January. Between 7:00 and 7:30 tonight, *VK3ME* took part in an event of great wireless importance.

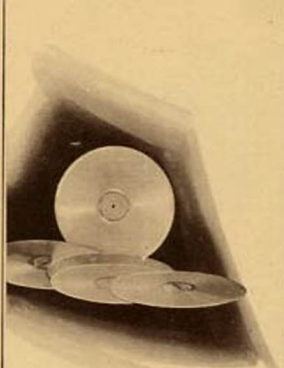
"One of our most enthusiastic listeners, Mr. Scott of Chicago, rang us up on the International Radio Phone Service, then tuned in and sent back to us via the International Radio Phone Service, the signal from *VK3ME* so that we could actually hear for ourselves how strongly our signal was being received in Chicago.

"We played a record here—'Beautiful Isle of Somewhere.' Mr. Scott tuned us in, then placed the mouth piece of his telephone in front of his speaker and we had the interesting and rather surprising experience of hearing the clearness and remarkable volume with which our signal was being received by him in Chicago. This was a unique event in that it was possible to hear a selection from our own transmitter, after it had gone around the world.

"It is interesting to follow the path of the signal. The selection was first sent out from the transmitter of *VK3ME* in Melbourne, and was received direct by Mr. Scott in Chicago. He then placed the mouth piece of his telephone in front of his speaker. Our signal was then transmitted from Chicago through the International Radio Phone Service to New York by means of land line. From New York it was transmitted by wireless link on short wave to London. From London it was transmitted by short wave wireless to Sydney. The signal was picked up in Sydney, then sent by land line to Melbourne. The signal from *VK3ME* coming as it did across the Pacific Ocean and returning via the Atlantic and Indian Oceans, actually made a complete circle of the earth. The total elapsed time during this transmission was approximately one-eighth of a second."

Many of you may wonder why it is possible to give so accurately Mr. Johnston's exact words. The secret, of course, lies in the fact that when Mr. Johnston began to talk I started recording. Later the record was played back and his words were taken down in short hand and transcribed.

Here was just another test which provided additional proof of my claim that the *Scott Receiver* actually has world-wide range, not just now and again but consistently, day after day, week after week, and month after month.



*Hundreds of
Australian Programs
recorded on
Aluminum Records*

*Demonstrate to
Laboratory Visitors the
Great Volume and
Clearness of Reception
from Stations
9,650 miles away*



The hard uphill work was done and it now looked like easy coasting downhill on this world's record-shattering reception test. Every week the proof was getting stronger that here at last was a receiver with world-wide range. On February 8th came the following letter from Australia:

"Many thanks for your letter of January 2nd and the accompanying log of your VK3ME transmission for the 31st consecutive week. We have the greatest pleasure in confirming your reception which is as usual up to the highest standard."

Then again on February 22nd, they wrote:

"We have received yours of the 6th of January and your logs. As usual we are able to verify your reception, your logs and our entries showing the closest agreement. Very good work and the 7th consecutive month completed."

On February 28th another proof was given to the whole world of the clarity and volume with which station **VK2ME** Sydney was being received by me here in Chicago thousands of miles away. On that date the Australian station played back as part of their broadcast two of the hundreds of records I had made of their transmissions.

At 6:00 a.m. here is what came over the air from **VK2ME**, Sydney, Australia.

6:00 a.m. "Just 9:00 p.m. Sunday evening. This is Station **VK2ME**, 47 York Street, Sydney, Australia. The next record is a rather interesting one—it is a record recorded in Chicago by Mr. Scott, a regular listener of **VK2ME**. It was recorded on his home recording set on an aluminum disc, then sent to **VK2ME** and we will now play this record over for you. It will give you some idea of the reception of **VK2ME** in the United States and especially in Chicago. Stand by a second please."

6:02 a.m. You now played this record back which was of a March by the band of His Majesty's Cold Stream Guards.

6:05 a.m. "**VK2ME**—Sydney, Australia—The record you have just listened to was one made by Mr. Scott in Chicago. I shall now play for you the laugh of the Kookaburra. This was also picked up in Chicago by this same gentleman."

During the next week or ten days I received dozens of letters from owners of our receivers in all parts of the country who had been listening to this program. Many of them said that the band march and laugh of the Kookaburra came through so clear and with such volume, that they would not have believed it was just a recording being played back, unless the announcer had told them so. It came through with such clarity and volume, they thought it was an original record.

Now it was warm and June-like and it was not so hard to leap out of bed in the morning to tune in either **VK3ME** or its sister station **VK2ME**.

The excitement begins to reach Australia. They started publishing in their Australian papers, stories about the reception record that was being established. On the 28th of April, 1932, Mr. Johnston wrote:


"There seems to be no doubt that you will be able to easily establish a twelve months record of continual reception from **VK3ME**. We hope so anyhow."

A few days after the above letter arrived from Melbourne, came a cable from Sydney confirming the fact that for six months I had tuned in *Every One* of their regular programs. Here is the cable received on March 7th, 1932.

"YOUR WEEKLY REPORTS RECEPTION TWO ME JULY SIXTH THIRTY-ONE TO TWENTYFIFTH JANUARY THIRTYTWO INCLUSIVE CONFIRMED STOP CONGRATULATIONS YOUR CONSISTENT RECEPTION OUR STATION AND INTERESTING REPORTS YOU HAVE COMPILED STOP YOUR RECORDS NOW ADMITTED AUSTRALIA FREE

TWOME"

In Australia they have a very heavy tariff on phonograph records that are not made in Australia. On these records is imposed a duty of \$1.00 each. When I first began to send my records to Australia, the Amalgamated Wireless had a pretty bill to foot for duty. However, the records and the results were so interesting to them that they were willing to pay this duty. But I was not willing that they should do this, so I wrote to the Minister of Customs in Australia,



Mr. Farmer,
Engineer **VK2ME**,
Sydney, Australia

Mr. Farmer's
Cablegram verifying
reception in Chicago,
For 12 consecutive
months, of every regular
VK2ME Program

PATRONS ARE REQUESTED TO FURNISH THE COMPANY BY CHECK OR BANKDRAFT CONCERNING ITS SERVICE.

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram which has an added character in that it is guaranteed by a reliable sign above or printed on the address.

WESTERN UNION

BLISS

DK = Day Letter
NM = Night Message
SL = Day Letter
LCO = Deferred Cable
DEF = Daily Night Letter
WLT = Walk-Back Letter

Received at **THE MONTREAL OFFICE** JAN 31 1932
CAM11 VIA RCA=CD SYDNEY 49/48 25/1720
LCO SCOMACO (E H SCOTT RADIO LAB)
(4450 RAVENSWOOD AVE) CHGO =

YOUR FINAL LOG FOR TWELVE MONTHS CONTINUOUS RECORD FROM JULY FIFTH 1931 TO JULY THIRD 1932 OF OUR WORLD WIDE BROADCASTS THROUGH **VKTWOME** TO HAND STOP WE HAVE CHECKED LOGS AND FIND THEY AGREE IN DETAIL WITH OUR TRANSMISSION SHEETS STOP CONGRATULATIONS SUCCESSFUL RECEPTION=

VKTWOME.

pointing out the fact that these were not regular phonograph records but special ones made of the reception of the two Australian stations in America, and after receipt of this letter the Minister of Customs very kindly allowed my records to come in duty free. On the second of March, I received the following letter from him:

Mr. E. H. Scott, President
E. H. Scott Radio Laboratories, Inc.
4450 Ravenswood Avenue
Chicago, Illinois, U.S.

Dear Sir:

In reply to your letter of the 25th of November, I am very pleased to learn of the very ingenious method you have adopted to help the Engineers of Short Wave Wireless Stations of Australia in their research work.

The fact has been noted that the records which you have made of transmissions from short wave stations VK3ME and VK2ME have enabled the Engineers to improve the quality of their signals and are of material value from the scientific view point.

I desire to inform you that I have decided to admit the records in question into Australia.

Yours faithfully,

(Signed) H. S. Gullett
Minister for Trade and Customs

Then, on May 31st came the following letter from Mr. Johnston of VK3ME:

"We were very glad to see your typically full log for our transmission of April 30th, and we were pleased that the transmission was so good that you thought it worth while letting Mr. Gilchrest hear it over the phone in comparison with some of the local stations."

The Mr. Gilchrest referred to in this letter is Mr. Charles Gilchrest, Radio Editor of the "Chicago Daily News." On April 30th, I had Melbourne tuned in and after making my usual log and records, began to tune around to see how the local stations were coming in, in the early morning. I found WMAQ on the air with their setting up exercises, so I called Mr. Gilchrest. First, I let him hear Melbourne, then switched over to WMAQ. Within the space of about 15 seconds Mr. Gilchrest had the pleasure of listening to two stations, one station operated by the newspaper he represents, and another station over 9,500 miles away, and he heard the far distant station come in with nearly as much volume and just as clearly as his own station.

My anxiety grew as the test neared its end. Would something interfere to spoil the so far perfect reception record? There is a red mark on my calendar above the receiver and with only a few more programs to be received to establish a distance record that is likely to stand in radio history for a long time to come, could you blame me for being a little nervous for fear the unexpected might occur to snatch victory from my grasp?

But most fortunately no unkind trick of fate intervened. The Scott Receiver is too perfectly constructed to permit that to happen.

At last the red letter day arrives. The last program is tuned in and the year's test with VK3ME, Melbourne, Australia is completed. The Scott Receiver stands alone—unqualifiedly entitled to be named "The World's Finest Radio Receiver." The final batch of records and logs are bundled up and shipped to VK3ME at Melbourne.

Then came the wait for the final verification of these logs and records. On this page will be found a reproduction of the letter which gives the final official verification of 12 months reception of VK3ME.

But there is still another month to go for the completion of the 12 months test with VK2ME, Sydney. At last that long looked for day also arrives and on July 5th the last program from VK2ME is tuned in, so completing the logging and recording of every regular transmission VK2ME put on the air for twelve consecutive months.

The Engineer of VK2ME did not wait for the mails to advise me that my 12 months reception was successful. On the 25th of August came the cable reproduced on the opposite page.

And so ended one of the most severest reception tests any radio receiver has ever been subjected to. It provides proof in the most conclusive form that foreign broadcasting stations on the other side of the world can be received regularly and consistently on a Scott Receiver.

This is the story of what has been accomplished by one individual receiver—Perhaps you are asking—"Can the results secured in this test be duplicated by owners of regular Scott Receivers shipped from the Laboratory?" The answer to this question will be found in the following pages.

COMMONWEALTH OF AUSTRALIA
Minister for Trade and Customs
Canberra F.C.T.
2 March, 1932



*Facsimile of letter from
VK3ME,
Melbourne, Australia,
verifying 12 months of
continuous reception
(except three programs)
in Chicago*

Amalgamated Wireless (Australia) Limited
Incorporated in New South Wales
BROADCASTING DEPARTMENT



Public Calls and Messages "COMMERCIAL"
Cable - Wireless Station, A.B.C. 10, 11
& Movable International
- - -
Telegrams - A.B.C. 10, 11, 12

"Wireless House," 167/169 Queen Street,
MELBOURNE, CT.

Please address all communications to
the General Manager and quote our Reference
No. 4158
BOX 1272.

27th July, 1932

Mr. E. H. Scott,
4450 Ravenswood Avenue,
CHICAGO, U.S.A.

Dear Mr. Scott,

We have completed the checking of your VK3ME logs, the last of which reached us this week.

Our check has shown that, except for the schedules of 28th August, 26th August and 16th September, 1931. You have logged each one of our semi-weekly transmissions from 4th June, 1931, to 4th July 1932.

Your fully detailed logs and the two hundred or so aluminum recordings of VK3ME that you have forwarded us during the past year prove very definitely the excellence of your reception.

In extending our congratulations on this splendid record of twelve months continuous reception from our Melbourne Station, we take the opportunity of expressing our thanks for the very valuable data you have furnished.

Yours faithfully,
AMALGAMATED WIRELESS (AUSTRALIA) LTD.

H. Johnston
General Manager
Engineer-in-Charge, VK3ME.

SCOTT OWNERS ALL OVER U.S.A. MATCH MY PERFORMANCE WITH THEIR OWN SCOTT RECEIVERS

From Coast to Coast, Canada to Mexico, All
Previous Reception Records are Shattered

Number of Times Foreign
Stations Received in
U. S. A. from Jan. 1st
to June 30th, 1932

Station	Location	Times Heard
Pontoise	Paris, France	3555
I2RO	Rome, Italy	1824
GSSW	Chelmsford, England	1371
VK3ME	Melbourne, Australia	1216
HKF	Bogota, Colombia	1114
EAQ	Madrid, Spain	900
HKA	Barranquilla, Colombia	853
HKO	Medillin, Colombia	813
VK2ME	Sidney, Australia	750
HKD	Barranquilla, Colombia	451
HKM	Bogota, Colombia	426
VRT	Hamilton, Bermuda	366
Prado	Riohamba, Ecuador	341
DJB	Berlin, Germany	304
VYIIBMO	Maracabo, Venezuela	281
FIICD	Saigon, Indo-China	274
Zeason	Zeezen, Germany	285
CMCI	Havana, Cuba	237
DJA	Berlin, Germany	212
LSN	Buenos Aires, Arg.	197
Rabat	Rabat, Morocco	187
LSX	Buenos Aires, Arg.	172
HVJ	Vatican City, Italy	138
OXY	Skamlebarck, Denmark	133
XAM	Merida, Yucatan	126
GBW	Rugby, England	126
GBU	Rugby, England	120
KKP	Kaunahu, Hawaii	107
CTIAA	Libson, Portugal	98
PPQ	Rio de Janeiro, Brazil	91
HKN	Medillin, Colombia	81
HCIDR	Quito, Ecuador	80
HKC	Bogoto, Colombia	76
RVS	Moscow, Russia	85
TIANRH	Heredia, Costa Rica	69
KKH	Kaunahu, Hawaii	66
PLV	Bandoeng, Java	66
GBS	Rugby, England	61
DIQ	Berlin, Germany	55
RVIS	Khabarovsk, Russia	59
HBT	Geneva, Switzerland	49
HCJB	Quito, Ecuador	41
VYQ	Maracay, Venezuela	33
HKU	Bogota, Colombia	29
HJY	Bogota, Colombia	28
HKE	Medillin, Colombia	24
HXX	Bogota, Colombia	23
LSAAK	Buenos Aires, Arg.	20
GBX	Rugby, England	19
HKT	Manizales, Colombia	19
JIAA	Kemikawa, Japan	19
TGW	Guatemala, Guatemala	17
DAN	Norddeich, Germany	17
HBJ	Geneva, Switzerland	17
KDK	Kaunahu, Hawaii	16
IAC	Coltana, Italy	15
GBC	Rugby, England	14
LSOR	Buenos Aires, Arg.	14
OPM	Leopoldville, Bel. Congo	14
LRJ	Buenos Aires, Arg.	13
PPU	Rio de Janeiro, Brazil	13
PRDA	Rio de Janeiro, Brazil	12
DHA	Nauen, Germany	11
FTK	St. Assise, France	11
CEC	Santiago, Chile	10
KEQ	Kaunahu, Hawaii	10
OCI	Lima, Peru	10

ONLY STATIONS TUNED IN TEN OR
MORE TIMES ARE GIVEN ABOVE

Shortly after the Australian tests described in the preceding pages were commenced, it was suggested by some that I might be using a special receiver; that I enjoyed an exceptionally advantageous location for foreign reception and because of my years of tuning experience that it might be possible for me, as a radio engineer, to tune in these stations regularly, whereas, the ordinary man might not be able to do it.

As a matter of fact, the *Scott Allwave* used in the Australian tests was a *Standard* set in every respect, exactly the same as was being shipped to my customers everywhere. I occupy no unusually effective location. My tuning skill is not exceptional. I merely tuned the stations exactly as any other *Scott* Owner might do.

This is just a plain statement of *fact* and it will be very conclusively proven in the following pages which tabulate the results secured by laymen owners of *Scott Allwave Receivers* throughout the U. S. A. during the first 6 months of 1932.

On the inauguration of my test with the two Australian stations I advised all *Scott* Owners just what time to tune in and the dial settings of both *VK3ME* and *VK2ME* in Australia. At once enthusiastic letters by the hundreds reached me from *Scott* Owners in every part of the U. S. A., Canada and Mexico telling of the extraordinary success they also had attained in receiving the broadcasts from Melbourne and Sydney.

These first reports proved so conclusively my statement that *any* owner of a *Scott Receiver* could duplicate the results I was securing in the Australian tests that I invited them to submit detailed logs of programs from *all* foreign stations received by them from January 1st to June 30th, 1932. To make it interesting I offered a small prize each month for the best records made. To say that the results obtained were startling is putting it mildly. On this page will be found tabulated the number of times foreign broadcast stations in all parts of the world were tuned in by *Scott* Owners living in virtually every State in the Union.

The map on the opposite page shows the many different parts of the world from which these programs were received.

So that every vestige of doubt might be removed as to the authenticity of the reception, all logs were required to be posted within 48 hours after the station was received. The number of logs submitted was overwhelming—9,535 of them during the months of January, February, and March covering 186 foreign stations in 40 different countries!

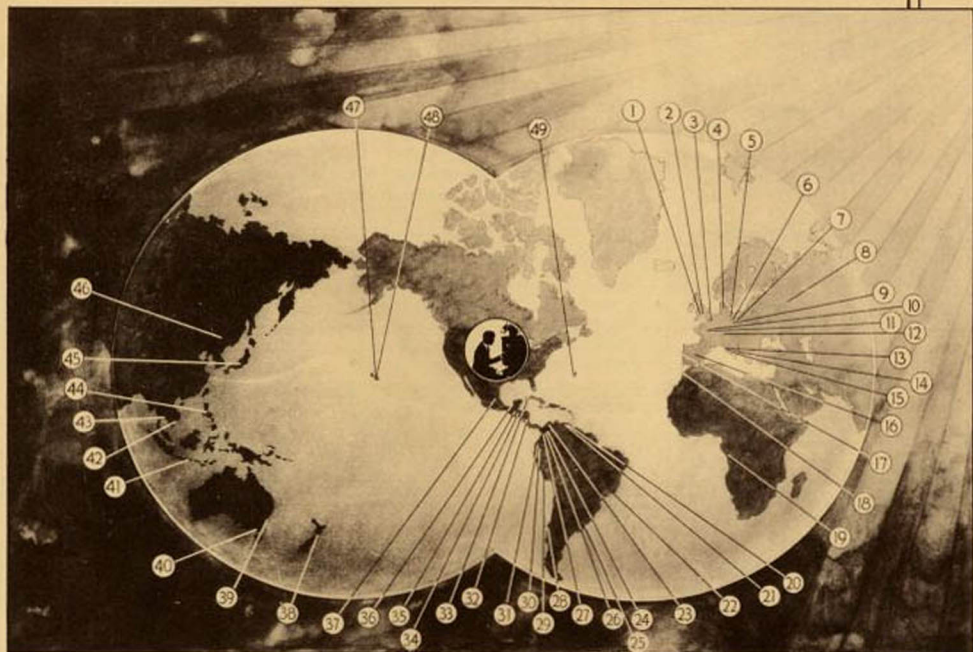
So large were the number of logs received that I dared not ask anybody to take my unsupported word for them, so I called in a distinguished firm of Certified Public Accountants to verify the count. On April 9th, 1932 they certified our tabulation as follows:

"We hereby certify that we have examined and counted nine thousand five hundred thirty-five (9,535) logs of programs reported by purchasers of Scott Allwave Receivers from one hundred eighty-six (186) stations, foreign to the country in which received, during the months of January, February and March, 1932.

Yours very truly,

(Signed) CHESTNUT, MURPHY, POOLE AND COMPANY
Certified Public Accountants

360 N. Michigan Ave., Chicago, Ill.



Location of Foreign Broadcasting Stations Received by Scott Owners in U. S. A. During First Six Months of 1932

TOTAL NUMBER OF FOREIGN PROGRAMS RECEIVED . . . 19,257

TOTAL NUMBER OF FOREIGN STATIONS HEARD . . . 320

TOTAL NUMBER OF FOREIGN COUNTRIES HEARD . . . 46

Key	Stations	Programs	Key	Stations	Programs	Key	Stations	Programs
(1)	Rugby, England	350	(18)	Rabat, Morocco	187	(34)	Tegucigalpa, Honduras	19
(2)	Chelmsford, England	1371	(19)	Leopoldville, Bel. Con.	14	(35)	Guatemala, Guatemala	17
(3)	Eindhoven, Holland	19	(20)	Maracay, Venezuela	33	(36)	Merida, Yucatan	126
(4)	Skamlebak, Denmark	133	(21)	Maracaibo, Venez.	284	(37)	Mexico City, Mexico	26
(5)	Norddeich, Germany	17	(22)	Rio de Janeiro, Brazil	115	(38)	Wellington, N. Z.	2
(6)	Berlin, Germany	604	(23)	Barranquilla, Colombia	1304	(39)	Sydney, Australia	750
(7)	Zeesen, Germany	285	(24)	Medillin, Colombia	918	(40)	Melbourne, Australia	1216
(8)	Moscow, Russia	92	(25)	Buenos Aires, Argentine	453	(41)	Bandoeng, Java	72
(9)	Nauen, Germany	18	(26)	Bogota, Colombia	1696	(42)	Saigon, Indo-China	274
(10)	Pontoise, France	3355	(27)	Manizales, Colombia	19	(43)	Bangkok, Siam	2
(11)	St. Assise, France	27	(28)	San Diego, Chile	10	(44)	Manila, P. I.	2
(12)	Geneva, Switz.	71	(29)	Lima, Peru	10	(45)	Kemikawa, Japan	19
(13)	Vatican City, Italy	138	(30)	Quito, Ecuador	121	(46)	Khabarovsk, Russia	50
(14)	Rome, Italy	1824	(31)	Riobamba, Ecuador	341	(47)	Honolulu, Hawaii	13
(15)	Coltana, Italy	15	(32)	Heredia, Costa Rica	69	(48)	Kaunahu, Hawaii	199
(16)	Madrid, Spain	918	(33)	Havana, Cuba	250	(49)	Hamilton, Bermuda	382
(17)	Lisbon, Portugal	90						

FOREIGN STATION RECEPTION BY STATES

Due to lack of space, the reports given below are very much condensed, only stations heard 5 times or more are listed and many stations listed are merely recapitulated.

Station	Location	Times Heard
ALABAMA		
Pontoise	Paris, France	105
I2RO	Rome, Italy	56
HKA	Barranquilla, Colombia	20
HKF	Bogota, Colombia	18
HKD	Barranquilla, Colombia	14
VK3ME	Melbourne, Australia	13
VK2ME	Sydney, Australia	10
Zeezen	Zeezen, Germany	9
EAQ	Madrid, Spain	8
GSSW	Chelmsford, England	8
VRT	Hamilton, Bermuda	7
F3ICD	Saigon, Indo-China	6
HKC	Bogota, Colombia	6
Prado	Riobamba, Ecuador	6
HKM	Bogota, Colombia	5
Rabat	Rabat, Morocco	5
CMCI	Havana, Cuba	5
GBS	Rugby, England	5

306 Programs
19 Different Stations
20 Different Countries

Countries Heard		
France	Italy	Costa Rica
Australia	Bermuda	Columbia
Ecuador	Spain	Germany
Indo-China	England	Morocco
Venezuela	Switzerland	Hawaii
Java	Argentina	Portugal
	Guatemala	Brazil

Station	Location	Times Heard
CALIFORNIA		
RV15	Khabarovsk, Russia	36
F3ICD	Saigon, Indo-China	29
VK3ME	Melbourne, Australia	14
VK2ME	Sydney, Australia	12
GSSW	Chelmsford, England	10
Pontoise	Paris, France	10
HKF	Bogota, Colombia	10
I2RO	Rome, Italy	7
EAQ	Madrid, Spain	7
Prado	Riobamba, Ecuador	6
HKA	Barranquilla, Colombia	5
HKM	Bogota, Colombia	5
JOBK	Osaka, Japan	5
JOCK	Nagoya, Japan	5
JODK	Kiyojo, Japan	5
JOHK	Sendai, Japan	5
JOIK	Sapporo, Japan	5
JIAA	Kemikawa, Japan	5
LSX	Buenos Aires, Argentina	5

186 Different Programs
19 Different Stations
12 Different Countries

Countries Heard		
Russia	Australia	Indo-China
England	Ecuador	Java
Argentina	Italy	France
Columbia	Spain	Japan

Station	Location	Times Heard
CONNECTICUT		
Pontoise	Paris, France	39
I2RO	Rome, Italy	32
HKA	Barranquilla, Colombia	26
VK3ME	Melbourne, Australia	20
GSSW	Chelmsford, England	17
HKO	Medillin, Colombia	17
HKD	Barranquilla, Colombia	16
Zeezen	Zeezen, Germany	10
HRB	Tegucigalpa, Honduras	9
F3ICD	Saigon, Indo-China	7
VK2ME	Sydney, Australia	7
CTIAA	Lisbon, Portugal	6
HCIDR	Quito, Ecuador	6
HKF	Bogota, Colombia	6
HKM	Bogota, Colombia	6
OXY	Shamlebarck, Denmark	6
Prado	Riobamba, Ecuador	6
CMCI	Havana, Cuba	5
DHA	Nauen, Germany	5
EAQ	Madrid, Spain	5
HKC	Bogota, Colombia	5
LSOR	Buenos Aires, Argentina	5
LSX	Buenos Aires, Argentina	5

Continued on opposite column

Individual Logs Climb My Proof!

So that you may get an idea of the kind of results Scott Owners enjoy from these foreign stations I am giving on the opposite page an example of the kind of logs submitted. I think you will agree this detailed log leaves no doubt as to the clearness and volume with which this far away Australian station was received by Mr. Bilheimer of Pennsylvania. Limited space permits giving only the log of one hour of Mr. Bilheimer's reception. The complete log covered two full hours. This is just a sample of the completeness of the thousands of logs submitted by Scott Owners. A copy of 19,257 logs submitted during the six months period are on file at the Laboratory.

What stronger proof is it possible to give that the results I secured in the Australian tests are being duplicated by hundreds of Scott Owners located in all parts of the country?

Reports came pouring in from all over the land. Real enduring records were hung up by Owners in Pennsylvania, New Jersey, Ohio, New York, Michigan, Virginia, Georgia and many other States. Between January 1st and June 30th, 1932, 19,257 logs of programs from 320 foreign stations in 46 countries were recorded, and are all on file at the laboratory. On this and the following pages you will find tabulated the stations that have been received in the various States in the Union. Unfortunately space does not allow me to list every State but those given will show that reception of foreign stations in the East, South, West, North and center of the U. S. A.—everywhere—is an easy accomplishment with a Scott Receiver. No matter where you are the whole world of broadcast is at your command with this super-powerful receiver.

Continued from opposite column

Station	Location	Times Heard
PCJ	Kootwijk, Holland	5
VQ7LO	Nairobi, Kenya, Africa	5
Rabat	Rabat, Morocco	4
TIANRH	Heredia, Costa Rica	4
VY4V	Valencia, Venez.	3

287 Different Programs
29 Different Stations
24 Different Countries

Countries Heard		
Australia	France	Columbia
England	Denmark	Germany
Honduras	Spain	Ecuador
Nairobi, Kenya, Africa	Indo-China	Holland
Venezuela	Siam	Costa Rica
Morocco	Cuba	Java
Russia	Japan	Brazil

Station	Location	Times Heard
GEORGIA		
I2RO	Rome, Italy	48
Radio	Paris, France	58
HKA	Barranquilla, Colombia	25
HKF	Bogota, Colombia	26
Pontoise	Paris, France	22
HKO	Medillin, Colombia	22
VK2ME	Sydney, Australia	18
VRT	Hamilton, Bermuda	16
HKC	Bogota, Colombia	15
GSSW	Chelmsford, England	15
HKM	Bogota, Colombia	15
VY1BMO	Maracaibo, Venezuela	14
HKN	Medillin, Colombia	11
HKD	Barranquilla, Colombia	10
F3ICD	Saigon, Indo-China	10
Prado	Riobamba, Ecuador	10
GBS	Rugby, England	7
GBU	Rugby, England	8
Rabat	Rabat, Morocco	6
CMCI	Havana, Cuba	6
TIANRH	Heredia, Costa Rica	6
HKC	Bogota, Colombia	6
LSW	Buenos Aires, Argentina	6
VYQ	Maracaay, Venezuela	5
CTIAA	Lisbon, Portugal	5
Zeezen	Zeezen, Germany	5
KXO	Kauhuhu, Hawaii	4

395 Different Programs
17 Different Stations
26 Different Countries

2 Steamships

Countries Heard		
Italy	France	Columbia
Spain	Bermuda	Venezuela
Australia	England	Indo-China
Ecuador	Cuba	Costa Rica
Morocco	Hawaii	Chile
Germany	Argentina	Portugal
Alaska	Philippine	Guatemala
Java	Islands	Brazil
Nairobi, Kenya, Africa	Russia	Belgian Congo

Station	Location	Times Heard
INDIANA		
VK3ME	Melbourne, Australia	37
Pontoise	Paris, France	28
I2RO	Rome, Italy	24
HKO	Bogota, Colombia	22
GSSW	Chelmsford, England	13
HKM	Bogota, Colombia	12
Prado	Riobamba, Ecuador	12
HKA	Barranquilla, Colombia	11
HKO	Medillin, Colombia	11
HKD	Barranquilla, Colombia	11
VRT	Hamilton, Bermuda	10
PPQ	Rio de Janeiro, Brazil	6
EAQ	Madrid, Spain	6
Zeezen	Zeezen, Germany	6
CMCI	Havana, Cuba	5

214 Different Programs
15 Different Stations
18 Different Countries

Countries Heard		
Australia	France	Italy
Columbia	England	Bermuda
Spain	Brazil	Ecuador
Cuba	Germany	Chile
Venezuela	Holland	Hawaii
Peru	Morocco	Indo-China

Station	Location	Times Heard
KENTUCKY		
Pontoise	Paris, France	15
I2RO	Rome, Italy	14
HKD	Barranquilla, Colombia	10
HKF	Bogota, Colombia	8
VK2ME	Sydney, Australia	7
VK3ME	Melbourne, Australia	7
HKO	Medillin, Colombia	6

Continued on page 16

AIRMAIL STATION HEARD IN PENNSYLVANIA As Clear as a Local—though 10,000 Miles Distant

The log given below is one sent in by Mr. Roye Bilheimer of Pennsylvania. The program logged was transmitted from station *VK2ME* at Sydney, Australia, on February 28, 1932. If any possible doubt is entertained about the clarity and volume with which distant foreign stations are being received on *Scott Allwave Receivers*, the log submitted by Mr.

Bilheimer should put all doubts at rest. It was on this particular program that station *VK2ME* played back two of the recordings that were made of earlier transmissions of this station by Mr. Scott in Chicago. This log will prove that foreign stations are actually received quite as satisfactorily as those coming from local stations.

February 28, 1932.

Chief Engineer,
Radio Station *VK2ME*,
Sydney, Australia.

Dear Sir:

I have just had the pleasure of tuning in your station, and on the log below I am giving you some of the selections I listened to. Will you be kind enough to check this with your station log and send me a verification of my reception?
6:00 a.m. E.S.T.—Chimes are heard striking the hour of 9:00 p.m., and you say, "Just 9:00 o'clock Sunday night, and you are on the air," *VK2ME*, 47 York Street, Sydney, Australia would be pleased to receive reports from those overseas relating to the reception of these programs. Our next record is rather an interesting broadcast. I am going to play for you, a record recorded in Chicago. This record was picked up by Mr. Scott from the original recording from *VK2ME*. It was then recorded on his home recording set, on aluminum discs, and then sent to *VK2ME*, and we will now play this record over for you, which will give you some idea of the reception in the United States, especially in Chicago. This is a musical selection by the Band of His Majesty's Guards, Stand by a second, please.

6:02½ a.m. E.S.T.—You are now playing the musical selection which you have just spoken of, as having been received from Mr. Scott.
6:05 a.m. E.S.T.—*VK2ME*, Sydney, Australia. The record you have been listening to was one made in Chicago by Mr. Scott, an ardent listener to *VK2ME*. The original recording was transmitted some time ago and Mr. Scott received that recording, and cut in the record on his home recording set, and forwarded this to *VK2ME*. That was the record which has just arrived in Sydney and we have just played it for you, to see how you will receive it. I shall now play for you the laugh of the "Kookaburra," that was also picked up in Chicago by the same gentleman.
6:06½ a.m. E.S.T.—Laugh of the "Kookaburra." Now you say, "That was the laugh of the 'Kookaburra,' reproduced in Chicago again after receiving the original recording from *VK2ME*. We should be glad to receive reports from other listeners as to how they receive these recordings." A talk of the day is entitled "Australia Commences the Travel Idea," prepared by Charles Holmes, Director of the Australian National Travelers' Association. Now you continue with the talk:
"Set in the sunshine of southern seas, Australia is the world's littlest continent. Australia is a continent that is different from other lands in its appearance, its geographic formation, and its strange animals, as well as its age-old peoples. Then, too, the remainder of the native race that originally inhabited Australia are a stone-age people, but now I wish you could see them in the Government Reservations, and in the far-back places of the continent, where many still lead their primitive lives."

It is even on the go now to make Australia your next long-distance holiday, for the high rate of exchange increases the value of your money on arrival 25 per cent. British visitors to Australia tell us that travel to Australia is becoming increasingly popular. The visitors to Australia claim that it is cheaper to make a trip to Australia than to live at home. In Australia the British visitors do not suffer by the loss of time. And then they, the visitors, enjoy the big advantage in exchange.

Just three days ago in the noon of a brilliant day, a great white liner, the 'Mariposa,' the United

States' greatest and most luxurious ship, steamed her way through the blue waters of Sydney harbor. Australia was glad to extend the hand of friendship to her friends from the other side of the Pacific. In behalf of the people of Australia, they decorated the ship with flowers, the saloons blazed with lights, and the lady passengers received fragrant posies.
"All the visitors to Australia love the plants of this southern continent. Said one distinguished visitor: 'Your sunshine and your plants are wonderful. Any plantation of your country is complete, without mentioning all your wonderful cities and surf beaches.'"

In three crowded days the visitors saw — and gave.

6:12 a.m. E.S.T.—They were entertained by Australian aborigines who are located in a settlement there. They were amused to see them throw their spears, that strange wooden weapon which, when thrown by a person, returns to the thrower, and the visitors had an amusing time practicing among themselves. Rudolph Priml gazed at a group of black fellows who were playing a tune with the leaf of the eucalyptus tree. "Rose Marie," from the famous play he had written.

6:14 a.m. E.S.T.—You are now speaking of native bears and say, "Here the visitors saw one quaint and lovely little bear, 'leaving toys,' one visitor called them. One gentleman wanted to buy them outright, so enthused was he by these little native animals. Some of the ladies brought honey and candy and were greatly disappointed when their gifts were refused by the bears. They prefer to get their own sweets from the eucalyptus tree. "Australia welcomes the visitor. We want the world to know us better, and we, ourselves, seek a greater knowledge of people of other lands. In these days, travel is more than a great pleasure maker—it is a great peace maker, and that is what the world today is most in need of. This concludes my short talk, entitled 'Australia Commences the Travel Idea,' prepared by Charles Holmes, Director of the Australian National Travelers' Association."

6:15 a.m. E.S.T.—The Band of His Majesty's Air Force will play "Washington Braves," arranged by Victor Herbert. "His Master's Voice" recording.

6:15½ a.m. E.S.T.—Band selection, "Washington Braves."

6:18 a.m. E.S.T.—*VK2ME*, Sydney, Australia. You now give the time as 18 minutes past 9:00 Sunday evening. Contralto solo, "God Shall Wipe Away All Tears," by Sullivan.

6:19 a.m. E.S.T.—Contralto solo, "God Shall Wipe Away All Tears," by Sullivan.

6:22½ a.m. E.S.T.—*VK2ME*, Sydney, Australia. A Wurlitzer organ solo, "Just Imagine," from "Grand Newland," played by Leslie James. Mr. James is playing on the balcony of the new Cinema in London. "His Master's Voice" recording.

This, coming through with fine volume and clarity, although the weather here is very bad. It is very foggy and rainy.

6:25½ a.m. E.S.T.—*VK2ME*, Sydney, Australia.

6:26 a.m. E.S.T.—The time is 26 minutes past 9:00 Sunday evening. You now announce the next selection, a waltz, by Gruno. "His Master's Voice" recording.

6:30½ a.m. E.S.T.—*VK2ME*, Sydney, Australia. The Band of His Majesty's Guards, directed by R. G. Evans, playing "Intermezzo," by Revere.

6:31 a.m. E.S.T.—Band playing "Intermezzo."
6:34 a.m. E.S.T.—*VK2ME*, Sydney, Australia.

Lily Pons sings in Italian, "The Incessant Rises"—love scene, Act 3, "Lucia di Lammermoor." Flute obligato played by George —
6:35 a.m. E.S.T.—Lily Pons, soprano, sings solo mentioned above.
6:39 a.m. E.S.T.—*VK2ME*, Sydney, Australia. Cedric Sharp, cellist, plays —, by Stokowski, piano accompaniment played by —
6:40 a.m. E.S.T.—*VK2ME*, Sydney, Australia.
6:43 a.m. E.S.T.—The time is 17 minutes to 10:00 Sunday evening. Organ solo played from Kingsway Hall, London, "Floor and Cradle," a song by Gilman.

6:44 a.m. E.S.T.—Organ solo as given above. (The volume is still very good, although the temperature here is 34 degrees and it is again raining.)
6:48 a.m. E.S.T.—*VK2ME*, Sydney, Australia. Our final number for the second session will be by Berlin State Orchestra, conducted by —, playing the beautiful "Galitha" overture. "His Master's Voice" recording.

6:49 a.m. E.S.T.—Overture, "Galitha" as mentioned above.

6:54 a.m. E.S.T.—*VK2ME*, Sydney, Australia. "The Voice of Australia," broadcasts on 31.28 meters, 9590 kilocycles.
6:55 a.m. E.S.T.—The time is just on the 5 minutes to 10:00 Sunday night. This ends the second session as arranged for today. The session will commence in 5 minutes. We will end the second session with the laugh of the "Kookaburra," after which you will hear the chimes for 10 o'clock.

6:55½ a.m. E.S.T.—Laugh of the "Kookaburra." You say, "That was the laugh of the 'Kookaburra,' laughing aburra. We will now stand by for the third session, which will begin in about 4 minutes, that is at 10:00 o'clock, Sydney time, 12:00 G.M.T., or 7:00 a.m. Eastern Standard Time, in America."

6:57 a.m. E.S.T.—"Please stand by yourselves."
7:00 a.m. E.S.T.—Chimes striking the hour of 10:00 p.m. Sunday night, Sydney, *VK2ME*, the "Voice of Australia," operates on 31.28 meters, 9590 kilocycles. It is just 10:00 o'clock. Those were the chimes of the post office clock near the studio. We will now begin the third session with the laugh of the Australian "Kookaburra," the laughing jackass.

7:01 a.m. E.S.T.—The laugh of the "Kookaburra." We will open the third session by playing the vocal selection, "When Your Days of Philandering Are Over."

7:02 a.m. E.S.T.—Tenor solo, as named above.

7:04½ a.m. E.S.T.—*VK2ME*, Sydney, Australia.
7:05 a.m. E.S.T.—The time is 5 minutes past 10:00 Sunday night, Sydney. Vittorio and his band playing the introduction to "Minuet," Rigoletto quartet, by Verdi.

7:10 a.m. E.S.T.—*VK2ME*, Sydney, Australia. The time is 10 minutes past 10:00 Sunday evening. You announce the next selection —, Opus 34, fourth movement, "His Masters Voice" recording.

7:20 a.m. E.S.T.—Musical selection as noted

quartet, by Verdi.
Your station is still coming in strong, but circumstances do not permit me to continue logging you. It may be interesting for you to know that this program came in with tremendous volume, using only an inside aerial. The tone quality all through the foregoing reception was excellent. I am using a *Scott All Wave* receiver, and this was loud-speaker reception; in fact it could be heard all over the house.

Thanking you in advance for your verification, and hoping to be able to send you other reports in the near future, I am,

Very truly yours,
ROYE H. BILHEIMER.

Continued from page 14

Station	Location	Times Heard
LSX	Buenos Aires, Argentina	5
GSSW	Chelmsford, England	5

77 Different Programs
6 Different Countries
9 Different Stations

Countries Heard

France	Italy	England
Australia	Argentina	Colombia

MARYLAND

Station	Location	Times Heard
Pontoise	Paris, France	44
VKJME	Melbourne, Australia	24
I2RO	Rome, Italy	16
KKP	Kauahuu, Hawaii	12
VKJME	Sydney, Australia	12
HKA	Barranquilla, Colombia	10
GSSW	Chelmsford, England	10
HKO	Medillin, Colombia	7
Prado	Riobamba, Ecuador	6
PPQ	Rio de Janeiro, Brazil	5
EAG	Madrid, Spain	5
VYIIBMO	Maracaibo, Venezuela	5
HKE	Medillin, Colombia	5
Rabat	Rabat, Morocco	5
OKY	Skamlebarck, Denmark	5
LSN	Buenos Aires, Argentina	5

176 Different Programs
17 Different Stations
15 Different Countries

Countries Heard

France	Australia	Italy
Hawaii	Colombia	Ecuador
Brazil	England	Spain
Venezuela	Bermuda	Morocco
Denmark	Germany	Colombia

MASSACHUSETTS

Station	Location	Times Heard
Pontoise	Paris, France	298
I2RO	Rome, Italy	199
GSSW	Chelmsford, England	117
VKJME	Melbourne, Australia	56
LSN	Buenos Aires, Argentina	52
VKJME	Sydney, Australia	50
Zeezen	Zeezen, Germany	47
HKO	Medillin, Colombia	38
HKA	Barranquilla, Colombia	37
HKF	Bogota, Colombia	37
EAG	Madrid, Spain	32
Rabat	Rabat, Morocco	22
Prado	Riobamba, Ecuador	20
DJB	Berlin, Germany	17
YRT	Hamilton, Bermuda	16
GBW	Rugby, England	14
DJA	Berlin, Germany	13
GRU	Rugby, England	13
CTIAA	Lisbon, Portugal	12
VYIIBMO	Maracaibo, Venezuela	11
OKY	Skamlebarck, Denmark	10
CNCI	Havana, Cuba	9
KKP	Kauahuu, Hawaii	8
GBS	Rugby, England	7
HBT	Geneva, Switzerland	7
HKD	Barranquilla, Colombia	7
HKM	Bogota, Colombia	6
KDK	Kauahuu, Hawaii	6
LSM	Buenos Aires, Argentina	6
LSOR	Buenos Aires, Argentina	6
F3ICD	Saigon, Indo-China	5
HCLDR	Quito, Ecuador	5
HBJ	Geneva, Switzerland	5
HVJ	Vatican City, Italy	5
IAC	Colony, Italy	5
HKC	Bogota, Colombia	5
KKH	Kauahuu, Hawaii	5
PLV	Bandona, Java	5
OPM	Leopoldville, Bel. Congo	4
ORK	Brussels, Belgium	4
PCJ	Eindhoven, Holland	4
PPQ	Rio de Janeiro, Brazil	4
DIQ	Berlin, Germany	3

1174 Different Programs
44 Different Stations
26 Different Countries

Countries Heard

France	Italy	England
Australia	Argentina	Germany
Colombia	Spain	Morocco
Ecuador	Bermuda	Portugal
Venezuela	Denmark	Hawaii
Cuba	Switzerland	Java
Indo-China	Holland	Belgium
Brazil	Guatemala	Congo
Philippine Islands	Costa Rica	Belgium

MICHIGAN

Station	Location	Times Heard
Pontoise	Paris, France	99
EAG	Madrid, Spain	59

Continued on opposite column

Continued from opposite column

Station	Location	Times Heard
I2RO	Rome, Italy	46
HKF	Bogota, Colombia	39
DJB	Berlin, Germany	36
VKJME	Melbourne, Australia	35
GSSW	Chelmsford, England	32
HKM	Bogota, Colombia	32
LSX	Buenos Aires, Argentina	26
HKO	Medillin, Colombia	23
CMCI	Havana, Cuba	16
OKY	Skamlebarck, Denmark	15
VKJME	Sydney, Australia	14
DJA	Berlin, Germany	11
Prado	Riobamba, Ecuador	8
KDK	Kauahuu, Hawaii	8
PPQ	Rio de Janeiro, Brazil	8
CTIAA	Lisbon, Portugal	7
DJB	Berlin, Germany	7
XAM	Merida, Yucatan	7
HVJ	Vatican City, Italy	6
DIQ	Berlin, Germany	6
HKA	Barranquilla, Colombia	6
HKN	Medillin, Colombia	6
HCLDR	Quito, Ecuador	5
HKD	Barranquilla, Colombia	5
VRT	Hamilton, Bermuda	5
GBW	Rugby, England	5
GTW	Guatemala, Guatemala	4

573 Different Programs
30 Different Stations
25 Different Countries

Countries Heard

France	Spain	Italy
Germany	Australia	England
Colombia	Argentina	Cuba
Denmark	Ecuador	Japan
Holland	Portugal	Yucatan
Hawaii	Guatemala	Bermuda
	Poland	Venezuela
	Morocco	Indo-China
	Costa Rica	

MINNESOTA

Station	Location	Times Heard
VKJME	Melbourne, Australia	30
Pontoise	Paris, France	25
I2RO	Rome, Italy	20
HKO	Medillin, Colombia	15
VKJME	Sydney, Australia	10
GSSW	Chelmsford, England	10
Barranquilla	Barranquilla, Colombia	10
Prado	Riobamba, Ecuador	8
KKH	Kauahuu, Hawaii	8
HVA	Havana, Cuba	8
PLV	Bandona, Java	5
CMDC	Havana, Cuba	5
PPQ	Rio de Janeiro, Brazil	5
HKF	Bogota, Colombia	4

161 Different Programs
14 Different Stations
10 Different Countries

Countries Heard

Australia	France	Italy
Colombia	England	Ecuador
Hawaii	Cuba	Java
	Brazil	

NEBRASKA

Station	Location	Times Heard
HKF	Bogota, Colombia	44
Pontoise	Paris, France	42
VKJME	Melbourne, Australia	36
HKA	Barranquilla, Colombia	35
GSSW	Chelmsford, England	28
VKJME	Sydney, Australia	24
HKD	Barranquilla, Colombia	23
I2RO	Rome, Italy	21
F3ICD	Saigon, Indo-China	20
HKM	Bogota, Colombia	17
HKO	Medillin, Colombia	17
Prado	Riobamba, Ecuador	13
HKC	Bogota, Colombia	10
VRT	Hamilton, Bermuda	10
VYIIBMO	Maracaibo, Venezuela	10
LSN	Buenos Aires, Argentina	9
KKP	Kauahuu, Hawaii	6
Zeezen	Zeezen, Germany	6
PLV	Bandona, Java	5
KKH	Kauahuu, Hawaii	5
HVA	Havana, Cuba	5
PPQ	Rio de Janeiro, Brazil	5
HCLDR	Quito, Ecuador	4
DJB	Berlin, Germany	4

198 Different Programs
24 Different Stations
17 Different Countries

Countries Heard

Colombia	France	Australia
England	Italy	Indo-China
Ecuador	Bermuda	Venezuela
Argentina	Hawaii	Java
Cuba	Germany	Brazil
Japan	Honduras	

Continued on page 17

The Magic of World-Wide Reception

No newspaper headlines have blazed the news across their pages of these reception feats accomplished by Scott Owners. Yet, in them lies a thrill of romance, of conquest that may strike far deeper than the exhilaration that come with the mere observance of a speed feat on land, air or water.

When you listen to the speech and music of these far away corners of the world coming into your home, you will get more than the thrill of merely watching something done by someone else—for you are the performer. It is a profound soul-stirring experience ever fresh in its novelty, ever impressive — this miracle magic of radio.

Next to travel there is no other experience that will bring you that broadening, understanding comprehension of all lands, all peoples, their speech and music. Many of these foreign broadcasting station announcements are spoken in English as well as in the native tongues. As you tune from land to land you reach hitherto unsealed heights of educational enjoyment. Around the world you go from day to day delving into the joys, the learning, the customs, the culture of the whole wide world. Your tuning knob becomes a sesame to the vast theatre of the air of the world and you command the prize talent of all nations.

To draw upon this vast storehouse of learning and entertainment you need no skill or experience. Only the turn of a single knob on the new *Scott Allwave DeLuxe Receiver* opens to you this great new world of gratifying enjoyment.

Continued from page 16

NORTH CAROLINA

Station	Location	Times Heard
HKD	Barranquilla, Colombia	27
VKJME	Melbourne, Australia	25
HKA	Barranquilla, Colombia	18
HKO	Medillin, Colombia	15
HKC	Bogota, Colombia	14
VKJME	Sydney, Australia	11
HKM	Bogota, Colombia	11
HKE	Bogota, Colombia	11
Zeezen	Zezen, Germany	10
CMCI	Havana, Cuba	8
HRD	Tegucigalpa, Honduras	7

156 Different Programs
11 Different Stations
5 Different Countries

Countries Heard		
Colombia	Australia	Honduras
Cuba	Germany	

OHIO

Station	Location	Times Heard
Pontoise	Paris, France	126
HKA	Barranquilla, Colombia	122
IJRO	Rome, Italy	90
VKJME	Melbourne, Australia	90
EAQ	Madrid, Spain	83
HKO	Medillin, Colombia	72
HKF	Bogota, Colombia	70
HKV	Medillin, Colombia	55
GSSW	Chelmsford, England	52
VKJME	Sydney, Australia	39
VRT	Hamilton, Bermuda	39
HKD	Barranquilla, Colombia	36
Prado	Riobamba, Ecuador	23
HKM	Bogota, Colombia	23
LSX	Buenos Aires, Argentina	21
CMCI	Havana, Cuba	14
DJB	Berlin, Germany	14
Rabat	Rabat, Morocco	11
YVIBMO	Maracaibo, Venezuela	8
CTIAA	Lisbon, Portugal	7
LSN	Buenos Aires, Argentina	7
FCICD	Saigon, Indo-China	6
GBU	Rugby, England	6
GBS	Rugby, England	6
HCIDR	Quito, Ecuador	6
HCJB	Quito, Ecuador	6
GBW	Rugby, England	6
KKH	Kauhuhu, Hawaii	6
Zeezen	Zezen, Germany	5
CMJMK	Havana, Cuba	5
HEJ	Geneva, Switzerland	5
HKC	Bogota, Colombia	5
TIANRH	Heredia, Costa Rica	5
YFO	Matanzas, Venezuela	5

1079 Different Programs
36 Different Stations
29 Different Countries

Countries Heard		
Colombia	Australia	England
Cuba	Argentina	Ecuador
Costa Rica	Bermuda	France
Denmark	Brazil	Guatemala
Germany	Italy	Morocco
Venezuela	Portugal	Indo-China
Hawaii	Switzerland	Yucatan
Japan	New Zealand	Peru
Java	Spain	Russia
Kenya (Africa)	Honduras	

SOUTH CAROLINA

Station	Location	Times Heard
IJRO	Rome, Italy	16
Pontoise	Paris, France	8
GSSW	Chelmsford, England	5
VKJME	Sydney, Australia	5
HKD	Barranquilla, Colombia	4
Rabat	Rabat, Morocco	4

44 Different Programs
7 Different Stations
6 Different Countries

Countries Heard		
France	Italy	Australia
Morocco	Colombia	England

PENNSYLVANIA

Station	Location	Times Heard
Pontoise	Paris, France	767
IJRO	Rome, Italy	378
HKA	Barranquilla, Colombia	359
GSSW	Chelmsford, England	286
HKF	Bogota, Colombia	262
VKJME	Melbourne, Australia	186
EAQ	Madrid, Spain	171
HKO	Medillin, Colombia	153
HKD	Barranquilla, Colombia	131
HKM	Bogota, Colombia	114
VKJME	Sydney, Australia	113

Continued on opposite column

Never Before A Radio Like This!

This triumph of the radio engineer's genius, combining as it does the cumulative development of eight years of unremitting toil committed to the one purpose of building the finest radio receiver of all times, brings to you not only the fascinating entertainment of foreign lands, but much more. That "more" is U. S. A. continental reception such as no other radio receiver can bring it to you with quality of tonal rendition that reaches new heights of perfection.

Its twin electro-dynamic speakers together with its perfected advanced audio system spans the spectrum of audio frequencies with the same comparable ease and sweetness as a 16-cylinder car negotiates the average hill.

Idealized radio reception—that is what a *Scott Allwave DeLuxe Receiver* brings to you—a new color of tone, new depth of resonance added to each intonation, each note beat, just as the original portrait by a master artist rises above the same subject as portrayed in mere photographic reproduction.

There has never been a receiver just like this. Just as surely as the airplane that hurtles through space at the dizzying speed of 6 miles per minute, as the speed boat that skims the water at 126 miles per hour tower above all their contemporaries, so the *Scott Allwave DeLuxe Receiver* stands out as a challenge to the entire radio world. In its advanced design and its precision engineering you will find gratification in the fullest measure of all that the art of radio has to offer. When you buy a *Scott Allwave DeLuxe Receiver*, buy it with great expectations and with the certainty that it will never disappoint you.

Continued from opposite column

Station	Location	Times Heard
YVIBMO	Maracaibo, Venezuela	105
DJA	Berlin, Germany	98
DJB	Berlin, Germany	90
Zeezen	Zezen, Germany	63
VRT	Hamilton, Bermuda	60
CMCI	Havana, Cuba	56
KKP	Kauhuhu, Hawaii	55
Prado	Riobamba, Ecuador	55
OXY	Skamlebar, Denmark	53
GBW	Rugby, England	51
Rabat	Rabat, Morocco	44
FCICD	Saigon, Indo-China	40
GBU	Rugby, England	37
NAM	Merida, Yucatan	32
LSN	Buenos Aires, Argentina	28
GBS	Rugby, England	27
LSX	Buenos Aires, Argentina	21
LASAAK	Buenos Aires, Argentina	20
CTIAA	Lisbon, Portugal	18
TIANRH	Heredia, Costa Rica	16
HKE	Medillin, Colombia	13
PLV	Bandoeng, Java	13
HKU	Bogota, Colombia	11
HCJB	Quito, Ecuador	11
FPQ	Rio de Janeiro, Brazil	11
HKC	Bogota, Colombia	10
GBX	Rugby, England	9
DIQ	Berlin, Germany	7
DAN	Nordlich, Germany	6
GBG	Rugby, England	5
KDK	Kauhuhu, Hawaii	5
DHC	Nauen, Germany	5
FTK	St. Assise, France	5
VYQ	Maracaibo, Venezuela	5
HKV	Medillin, Colombia	5
OPM	Leopoldville, Bel. Cong. Afr.	5
JIAA	Kenikawa, Japan	5
KEQ	Kauhuhu, Hawaii	5
CEC	Santiago, Chile	5

409 Different Programs
99 Different Stations
34 Different Countries

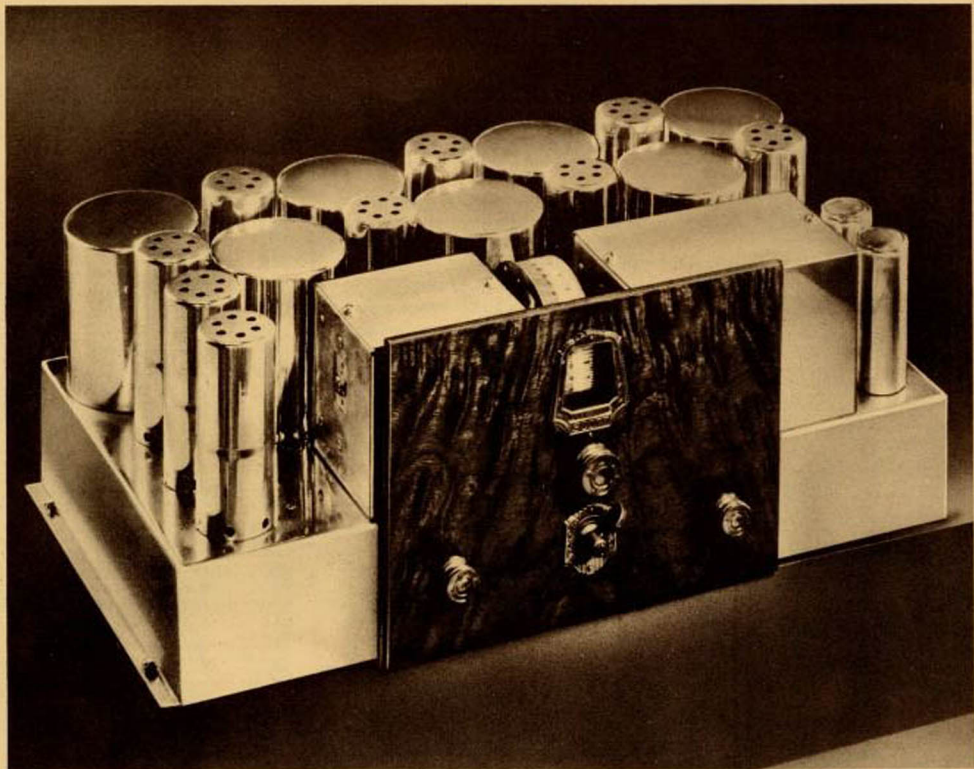
Countries Heard		
France	Italy	Colombia
England	Australia	Spain
Venezuela	Bermuda	Ecuador
Cuba	Hawaii	Indo-China
Denmark	Morocco	Portugal
Yucatan	Argentina	Brazil
Costa Rica	Japan	Chile
Belgian	Honduras	Switzerland
Congo	Honduras	Switzerland
Holland	Belgium	Hungary
Belgium	Philippine	Hungary
Russia	Islands	
Poland		

WISCONSIN

Station	Location	Times Heard
Pontoise	Paris, France	102
HKF	Bogota, Colombia	84
VKJME	Melbourne, Australia	82
GSSW	Chelmsford, England	50
IJRO	Rome, Italy	47
EAQ	Madrid, Spain	39
VKJME	Sydney, Australia	38
Prado	Riobamba, Ecuador	22
HKM	Bogota, Colombia	21
HKA	Barranquilla, Colombia	19
HCIDR	Quito, Ecuador	15
VRT	Hamilton, Bermuda	12
HKO	Medillin, Colombia	9
LSN	Buenos Aires, Argentina	9
CMCI	Havana, Cuba	7
Zeezen	Zezen, Germany	7
FPQ	Rio de Janeiro, Brazil	6
GBU	Rugby, England	6
HKE	Medillin, Colombia	6
HKD	Barranquilla, Colombia	6
DIQ	Berlin, Germany	6
KSQ	Kauhuhu, Hawaii	5
VKJUZ	Melbourne, Australia	5
HKC	Bogota, Colombia	5
GBX	Rugby, England	5
NAM	Merida, Yucatan	5
LSOR	Buenos Aires, Argentina	5
TIANRH	Heredia, Costa Rica	5
YVIBMO	Maracaibo, Venezuela	5

618 Programs Heard
31 Different Stations
25 Different Countries

Countries Heard		
Colombia	France	Australia
England	Italy	Spain
Ecuador	Guatemala	Argentina
Cuba	Germany	Hawaii
Yucatan	Switzerland	Costa Rica
Russia	Morocco	Venezuela
Denmark	Indo-China	Holland
Poland	Java	Honduras
Chile		



The Scott Allwave DeLuxe Receiver

A study of the condensed specifications given below will show that the New Scott Allwave DeLuxe custom built receiver has incorporated in its design every worth while development in radio, in addition to many exclusive features perfected in our research laboratory. It is built with as much care and precision as a fine watch. Every part is fully guaranteed for five years.

The Circuit

Brief Specifications—Superheterodyne—Twelve Tubes—Pre-Selector stage using triple grid super control tube, type 58—1st Detector using triple grid tube, type 57—Oscillator using type 56 tube—Three stages of I.F. amplification with four tuned circuits and three triple grid supercontrol tubes, type 58. Second detector circuit using Wunderlich tube—Three stages of audio amplification, a combination of resistance and impedance coup-

ling, using two type 56 tubes and two type 245 tubes, the last stage being pushpull—Rectification—One type 280 noiseless rectifier tube.

The Oscillator and Detector Circuits

In the Oscillator circuit one of the new type 56 tubes is used, the characteristics of which makes it particularly suitable for use as a short wave as well as broadcast band oscillator. The 1st detector

or mixer stage uses plate rectification, and is coupled to the oscillator circuit in such a way that it not only gives perfect modulation, but at the same time automatically tracks or aligns the tuning of the two circuits, so that they can be operated by a single dial without loss of either sensitivity or selectivity from 15 to 550 meters.

The Intermediate Frequency Amplifier

The gain or sensitivity of a super-

heterodyne receiver depends largely on the efficiency of the I.F. amplifier. The design of the I.F. coupling units in the *DeLuxe* model is radically different to that employed in other receivers and is another product of our Research Laboratory. It consists of a highly developed tuned impedance coupled circuit in which each unit in each stage is perfectly shielded from each other and from the other circuits in the receiver. This system enables us to use the full amplification or gain of the triple grid super control type 58 tubes, heretofore considered impossible of accomplishment owing to the high noise level or tube hiss encountered with other methods of I.F. amplification. It is just another of the features in our receiver that makes consistent, dependable reception of foreign stations possible.

Automatic Volume Control

Incorporated in the design of the *Scott Allwave DeLuxe* is a perfected system of automatic volume control. This system automatically holds the volume of the signal from distant stations at a constant level, regardless of fading or variations in the strength of the transmitted signal. Very often when a signal from a distant station is being received it will fade in and out. The signal may be loud for a few minutes then may suddenly die away, requiring a readjustment of the volume control. The volume in the *DeLuxe* model is automatically controlled by means of the new Wunderlich tube which maintains the volume at any desired signal strength without manual adjustments. If the signal strength weakens, the automatic volume control system takes hold instantly (it acts in about 1/20th of a second) and increases the sensitivity of the receiver, so bringing up the volume. When the strength of the signal suddenly increases, the sensitivity of the receiver is instantly and automatically reduced, so that the speakers never blast and the volume is automatically kept at a constant level. You merely select the station you wish to listen to—

set the volume control at the desired point and the automatic control system will keep it there as long as the signal from the station is coming through.

Visual Tuning

The indicator pointer is projected directly on the dial strip and eliminates the necessity for a separate dial for the visual tuner, and makes it unnecessary to watch more than one dial at a time. This makes it an easy matter, even for an inexperienced tuner to bring in a program perfectly. Another feature of our visual tuning system is that it automatically prevents the set from being "off-tuned" and reception is not impaired by the cutting of the side bands.

If it is desired to tune silently, the output from the speaker can be partially or completely eliminated by simply turning back the volume control. After the desired station has been tuned in correctly, by means of the visual tuner, the volume can then be turned up to any desired point.

Perfect Tone Quality

The electrical fidelity of the *Scott Allwave DeLuxe* is flat within plus or minus 2 db from 30 to 3500 cycles, and the sound pressure curve shows that the overall response from the speaker is uniform up to 4500 cycles. This means that the human ear can detect practically no difference or loss in frequency between a selection as it is actually being played in front of a microphone in a broadcasting station, and as it comes out of the speaker of a *DeLuxe Receiver*. It means that you not only hear music as natural as if the orchestra itself were in your room, but speech as clear cut and distinct as if the person were really in front of you.

Single Dial Tuning

All tuning is done with one knob, operating a single dial, without any other adjustment or trimmers, from 15 meters right up to 550 meters. While single dial receivers are common for the broadcast band, we believe this is the *first* allwave

receiver that tunes more than one circuit on the short waves with a *single dial, without trimmers*. On other short wave receivers using a stage of R.F. ahead of the 1st detector, they have used either two dials or auxiliary trimmer condensers. A single dial has been used in receivers where the *oscillator circuit only* is tuned, but with a tremendous loss in both sensitivity and selectivity. The tuning of *both* the R.F. and oscillator circuits with a single dial without trimmers is an exclusive development of our Research Laboratory, and only this system will give the sensitivity necessary to accomplish *daily world-wide* reception, regardless of season of year or atmospheric conditions.

Selectivity

An examination of the Selectivity Curve of the *Scott Allwave DeLuxe* taken in the center of the broadcast band (1000 KC) shows the following selectivity:

- 100 times field strength—
9 KC separation
- 200 times field strength—
10 KC separation
- 5000 times field strength—
20 KC separation

This is indeed very remarkable selectivity and we know of no other receiver that has ever attained such a high degree of selectivity.

Sensitivity

The Sensitivity Curve shows that at 600 KC, the sensitivity is .19 microvolts absolute, or .05 of a microvolt per meter. At 1400 KC the sensitivity is .016 microvolts absolute or 4/1000ths of a microvolt per meter. Such extreme sensitivity as this makes practically every domestic station on the broadcast band a *local* station regardless of distance, and the tremendous proportionate sensitivity at the higher or short wave frequencies enables the *Scott Allwave DeLuxe* to bring in foreign stations over 10,000 miles distant, with the same usable volume with which it reproduces locals. A brochure giving complete technical details will be gladly mailed on request.

THE E. H. SCOTT RADIO LABORATORIES, INC., 4450 Ravenswood Ave., Chicago, U. S. A.



"THE FINE THINGS
ARE ALWAYS
HAND MADE"

E. H. Scott