



### 500-KW TRANSMITTER IN PIFO



*One of the three container trucks in Quito*

Saturday morning, June 28, 1980, dawned as the start of another beautiful day in Quito. For most of the people living in the city it was just another nice summer day, but for HCJB it was a very important day. That morning three huge container trucks arrived in Quito from the port city of Manta. In addition, a large flat-bed truck was in the caravan that had left Manta the preceding evening. Drivers of the heavy trucks prefer to negotiate the winding mountain roads at night. After a brief stopover in Quito, the four trucks continued their historic trip to Pifo where HCJB's transmitters are located.

Why was the arrival of these trucks so significant to HCJB? What did they contain? The huge shipment consisted of the new 500-kw transmitter that has been under construction for several years in Elkhart, Indiana. Following completion and testing, the powerful new voice for HCJB had been carefully packed in the three containers. One large transformer for the power substation was loaded on the flat-bed truck. They were then driven to Miami, Florida, just in time to be put aboard a freighter bound for South America. The ship

arrived at Manta about two weeks later after passing through the Panama Canal. Now all the valuable equipment, which had been insured for a million-and-a-half dollars, is safely at the transmitter site. Just a few more steps remain before you will be hearing this transmitter on the short-wave bands.

It is estimated that it will take about two weeks to unload the containers and carefully sort and organize all the transmitter components. Assembly of the complete transmitter could take another two or three months. Soon the long awaited day will be here when we actually start transmitter testing! Then, the final goal will be reached. The transmitter will be officially dedicated and begin regular operation, a powerful new voice to help HCJB spread the Gospel of Jesus Christ to the most remote areas of the world.

As the transmitter is assembled and tested, we will be including pictures in ANDEX International. This will help ANDEX members see what the equipment looks like as they begin to hear it on the air. This new transmitter will double the total output power of HCJB's transmitter complex. Since 1981 is HCJB's 50th anniversary year, this will be an excellent way to help in the celebration!

### DXing HIGHLIGHTS

Most DXers, as they look back over the years, can remember one or more outstanding events in connection with their involvement with shortwave radio. Michael De Luca, of Massillon, Ohio, has sent us this highlight from his experiences. Michael is ANDEX member No. 483.

"I distinctly recall being introduced to shortwave back in November of 1972. At that time I was

thirteen years old. We were preparing to move to our new home in Massillon, Ohio, and we had a lot of things we didn't want to take along with us. To get rid of some of these we had a garage sale. This is a sale of items that aren't wanted anymore. They are sold at a very low price, not for the sake of profit, but just to dispose of them without actually throwing them out. We had a Crosley 56TA shortwave, medium-wave receiver in operation and for sale. I started asking my father some curious questions about it. After I found out what shortwave was, and some very basic information about it, I took the Crosley up to my room and rigged up a crude antenna.

"Right away I picked up Canada, the Voice of America, and Radio RSA. I remember first hearing Radio Havana Cuba on February 22, 1973. On the 25th I picked up a station in Holland which was, no doubt, Radio Nederland. Next came my first reception of the BBC on the 26th of February. Then, the following day, I received HCJB with strong, clear signals. I can still remember listening to parts of *Passport* as I sat in the dark in my bedroom during the evening. The dial light and the radio tubes were the only source of light other than HCJB and God. What a feeling . . . what a wonderful feeling! I have had many DXing highlights since then, but this was the most important and unforgettable.

"It wasn't until we were in our new home that I began to understand more about shortwave. Then, for Christmas in 1973, I was given a new Airline ten-band receiver. The reason I wanted the new radio was because my Crosley had broken down in November. The Airline had two shortwave bands and I desperately wanted to resume my hobby. I

officially started DXing as of January 1, 1974. I can truly say that I love it and wouldn't give it up for anything."

That was Michael's DXing highlight. What was your's? Write and tell us about it. If we use it in a future ANDEX bulletin, we will send you a special prize. Let's hear from you.

## HISTORY OF RADIO

By Kenneth Vito Zichi

### Part 7

In the last installment of this series we discussed the development of shortwave radio during the days of World War II. We pick up again where we left off. The large-scale hostilities during the war did have a very great effect on radio which was, in reality, just beginning. On the one hand it hindered the development of some technical advances such as frequency modulation and television. On the other hand, and even more important for our story, it provided the major reason for shortwave stations to begin operation. Every government wanted to put its best foot forward and have its opinions heard in the world that seemed to be getting confused. Communication became crucial, not only along official channels, but also between ordinary people who for the first time found themselves involved in large-scale war in their own homes.

It was during this time that most stations in the "developed" world first began broadcasting on shortwave. Others expanded the services that had been just a token in earlier years. Broadcasts from the major countries involved in the war such as Germany, Italy, Britain, Russia, and later the United States, made up a large portion of the new propaganda war. This was fought on the airwaves instead of on the battlefield.

Names such as "Lord Haw Haw" and H. V. Kaltenborn popped into view both nationally and internationally on shortwave. The former was a defected Englishman who tried to persuade his former countrymen to give up the war, while Kaltenborn was an American war correspondent. But as far as the development of shortwave radio, World War II held only the seed of a plant which was to grow much larger during the 1950s. Cold war battles were fought mainly over the airwaves. Radio Peking, which began broadcasting in the

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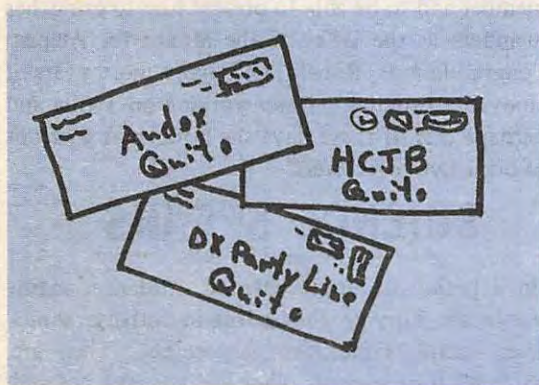
1950s, was one of those stations born during this period of time. Many other stations located in less-developed areas also started operating. Far from being interested in fighting an ideological war, most wanted to carve a place for themselves in the world power structure.

This brings us up to the present situation in international shortwave broadcasting. In the next installment we will look at some of the technical developments that have taken place in recent years.

*To be continued*

From American Shortwave Listeners Club  
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## 200 YEARS OF MAIL



What would a DXer do without regular and dependable mail service? How would he send his reception reports and obtain the important QSL cards? Did you realize that it has been only two-hundred years since the first regular mail service for the public was inaugurated? This pioneer service was between London and Bath in England. Horse-drawn carriages were used, driven by men wearing long coats and stovepipe hats. These carriages remained in service throughout most of England until the middle of the nineteenth century. At that time they were replaced by wood-burning railroads.

Since the invention of writing, various materials have been used. First, words were engraved on clay tablets. Later, papyrus was used and this gave way to parchment, and finally to paper as we know it today. In the earliest days it was necessary to have someone carry a message, or the mail, by foot to its destination. Data from remote times indicates there may have been a postal service between the Assyrians and the Babylonians. Hun-

dreds of years before Christ the Old Testament makes reference to certain types of letters that were delivered by hand to some of the kings of Asia Minor. In the days of King Hezekiah there were letter carriers that ran from town to town throughout the cities of Israel and Judah.

A fragment of a clay tablet found in Egypt, which dates back to about 2300 years before Christ, describes the life of a government messenger in realistic terms. "Before leaving, divide your inheritance among your children. It is almost certain that you will never return home again, since in carrying out the Pharaoh's orders you will probably be devoured by a lion along the road or be captured and killed by the savages or enemies."

Nevertheless, six-hundred years before Christ the first organized distribution, on a regular basis, of the orders and commands of a monarch was established. This was for Ciro, the king of Persia. He had a group of swift marathonists who crossed the mountains, valleys, and plains of the vast Persian Empire. Each of the runners had his own specific portion of the route to cover. As one reached the end of his run, another fresh runner was waiting to carry the messages on their way. A similar system was used by the Incas of South America. The Incas called their messengers "chasquis."

Other civilizations had their own methods of distributing the messages and edicts of the rulers. It was not until about 1490 that mail service began to be available to the common person. It was no longer a prerogative of the ruling class. As already mentioned, the first regularly scheduled mail service came in 1780. Then, this was followed in 1840 by the first postage stamp, an idea suggested by the Englishman, Rowland Hill.

Do you ever complain about our present worldwide postal service? Most of us do at one time or another. Especially when that long-awaited QSL card is delayed! Just remember what mail service was like only a few-hundred years ago. I don't think we really have much to complain about. Postal service has come a long way!

## DXer OF THE MONTH

Texas is by far the largest state in the Continental United States. Only Alaska covers more territory. Texas has a long and interesting history. It has the



*Ronald's fine receiving equipment*

distinction of being the only state to have existed as an independent republic. In 1845 it was annexed by the United States. This led to the Mexican War. Texas is often called the Lone Star State because of the single star on the state flag. In the eastern part of the state is the city of Tyler. The area around this city is known for its agriculture, oil refineries, and railroad shops. Tyler itself is famous for its beautiful roses.

Ronald D. Smith, our featured ANDEX member for this month, is a resident of Tyler. As far as DXing is concerned, he should help put Tyler on the map. Ronald has been involved in the DXing hobby for nearly twenty-five years. This makes him a real veteran. He became involved in shortwave listening as a young teenager. His first receiver was an all-band floor-model Zenith radio. The first shortwave station he can remember hearing was HCJB. He made a recording of the program and took it to school. It was his show-and-tell project. That was back in 1953.

The receiving equipment used currently by Ronald is a far cry from that original Zenith. He has a variety of radio receivers which include a Heathkit SW-717 multi-band assembled kit, a Sears Com/Trek 1X9, a Hammarlund HQ-170 ham-band model, and a Bearcat 210 programmable scanner. Ronald also owns a Craig cassette recorder and a CB transceiver. He has recently completed an eight-band dipole antenna which is about forty feet in the air.

Ronald considers himself more of an SWL than a serious DXer. He enjoys listening to programs rather than just tuning around the bands. He is not very excited about collecting QSL cards but

does have a few on the wall for conversation pieces. He spends about two to three hours a day with his hobby. He has not been able to get his wife, Twilla, to share his shortwave hobby. However, she never objects to the time he spends with his receivers. She is willing to share him with his hobby! One hobby they do enjoy together is camping. Both Ronald and Twilla are born-again Christians so also share the joy of loving their Lord, Jesus Christ.

The only club Ronald has joined is ANDEX. He became a member less than a year ago and received membership No. 3432. When Ronald is not DXing, he works at a recreational vehicle dealership where he is the service manager. With his love for camping, that is an ideal way to earn his living. We are happy to have Ronald D. Smith as an ANDEX member and to be able to present him to our other members as the DXer of the Month for August. Congratulations, Ronald, and many more years of enjoyable listening. Keep working on Twilla and perhaps one of these days she'll join you in front of one of your receivers!

## SCIENCE SPEAKS

"In a period of unprecedented affluence, many people are burying themselves in activity, sometimes useful, sometimes purposeless. They are searching for meaning. They want acceptance and love. When their activity fails to be meaningful, people develop self-doubts. Their unhappiness is painfully apparent to themselves and to thinking physicians. They may turn to alcohol or tranquilizers, or try new locations, new wives, new jobs. But what they really need is love. They need a relationship in which they can unmask their shortcomings, yet find acceptance.

"Have you found love and acceptance in your life? I have found these things through God's love for me, supremely expressed in Jesus Christ. Faith and commitment to Christ bring purpose and satisfaction in the midst of disappointments, and even when surrounded by luxury."

The above words come from an experienced psychiatrist, Dr. Merville O. Vincent, M.D. Dr. Vincent is a certified specialist in both internal medicine and psychiatry. At the time he wrote this testimony he was assistant medical superintendent of Homewood Sanitarium in Guelph, Ontario, Canada.