

ANDEX

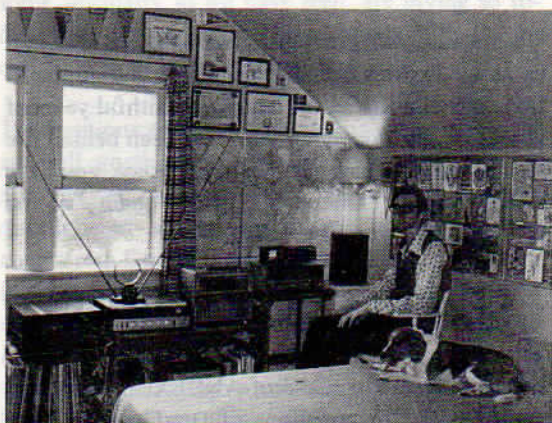


INTERNATIONAL

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DXer OF THE MONTH



Philip Mark Wala - ANDEX No. 65

ANDEX members range in age from 9 to 84 years, with the largest number being in their teens. This month we have chosen one of our younger members as the "DXer of the Month". Philip Mark Wala is a teenager who lives in Milwaukee, Wisconsin. Philip attends Michigan State University where he is a sophomore studying electrical engineering. He was one of the first to join ANDEX and is charter member No. 65.

In spite of his youth, Philip has been DXing for nearly nine years. His first receiver was a Hallcrafters S-38D. His first "DX Catch" was HCJB, and he received his first QSL cards from HCJB. Some of his first big thrills in the shortwave listening hobby came when he heard his letters acknowledged over HCJB's "Musical Mailbag", "Caribbean Call", and "DX Party Line" programs.

During the past nine years, Philip has progressed in DXing and now uses a Hallcrafters S-118 receiver with a rooftop inverted "L" antenna at his home. At school he uses two simple, portable receivers. Other equipment includes a Heathkit crystal calibrator, three small tape recorders, and a homemade "S-meter" for the S-118 receiver. His

successful DXing has resulted in verifications from about 60 countries. During the school year Philip finds it difficult to spend more than a half hour a day listening to his radio, but during the summer this increases to three or four hours each day. Most of his listening is done between 0000 and 0400 GMT. However, if propagation conditions are good on weekends, he will often be found neglecting his sleep in favor of an all-night DXing session.

In addition to his shortwave listening and DXing, Philip is also interested in stamp collecting and a collection of old radio programs. His pet beagle goes by the name of Sam and can be seen in the picture of Philip's "DXing Corner". Sam is also a confirmed and veteran DXer and helps Philip with his hobby.

We extend our congratulations to Philip Wala on his successful years of DXing and are happy to name him "DXer of the Month" for October, 1974. We trust the coming years will bring him continued success.

ANDEX SEAL CONTEST

Many members of ANDEX have sent in entries for our ANDEX Seal Contest. We appreciate the interest shown and the excellent quality of these seals. Although the contest officially closed the end of July, we have waited a few weeks to allow entries to arrive that have been delayed in the mails.

A committee has been appointed to judge the seals and we expect to be able to announce the winner, as well as to introduce the official ANDEX Seal, in the November issue of ANDEX International. In addition to the prize awarded to the winner, we will be sending a special surprise with the November ANDEX International to all members who participated in this Seal Contest. We thank you and appreciate your cooperation.

BEHIND THE PROGRAMS



Stella Koziel - Operations

Recently, on June 11, 1974, one of our workers completed 30 years of faithful service with HCJB. Stella Koziel joined the staff of the Voice of the Andes on June 11, 1944. Although most of our listeners have probably never heard her name, her work has been vital to almost every program that we broadcast. She is currently serving in the capacity of Administrative Assistant for Operations.

Stella was born in Brazil and lived there until she reached the age of 15. Her father is German and her mother Ecuadorian. Those early years gave her a good knowledge of Portuguese which has helped her in her work with HCJB. Her years here have helped her learn English so that she is now fluent in Spanish, Portuguese and English, as well as speaking some German and French.

During 1944 HCJB started programming in Portuguese, and Stella's first assignment was to head up the Portuguese Department. She served in this capacity until 1947, at which time Mr. and Mrs. Martin Jansen took over the work. Following this, Stella worked for many years as a control operator and had her hand in many, many programs in various languages. During those years she helped with the many hundreds of dramas which were recorded in Spanish, some of which are still being used on our Spanish programs. Since 1971 Stella has served in our Central Control where she is the Administrative Assistant for Operations.

In her present position Stella has the full responsibility for the day-to-day operations of the radio programming in all languages used by HCJB. She assigns the control operators to their schedules, arranges for the use of studios and control rooms,

makes sure that all tapes and other materials are lined up and ready for broadcast, as scheduled, then filed away again after use and, in case of an emergency or sickness, finds herself filling in as an operator to plug a gap and keep the programs on the air. It is easy to see how important her work is to all of our programs.

In addition to her work with HCJB, Stella says her hobbies include cooking and baking. All reports indicate that she can prepare and serve a delicious meal. Unfortunately, we are unable to send any samples by radio!

We are sure our many listeners to HCJB will join us as we express our sincere thanks and appreciation to Stella Koziel for her many faithful years of service. Even though her work has been behind the scenes and you have not heard her voice, you have felt the effect of her work in the quality of the programs that you have heard.

SCIENCE & RELIGION

In the July, 1974, issue of ANDEX International we presented the opinions of Dr. Elmer W. Engstrom, for many years the Chief Executive of the Radio Corporation of America, concerning the relation between science and religion. In this issue we continue this subject with the opinions of two other outstanding men of science.

"Have science and technology solved man's basic problems: the quest for ultimate truth by which to live and die, the problems of moral and intellectual corruption, of crime, war and suffering?" Dr. Bodo Volkman, professor of mathematics at the Institute of Technology, Stuttgart, Germany, asks this question and gives his pointed reply. "It is evident that mere scientific knowledge, however valuable, can never accomplish this. Nor do I think that religious efforts will ever suffice. It takes something different from just adhering to some ethical principles or believing in some anthropocentric god. Rather do I believe in the God of the Bible as a Person, and faith in him to me means commitment to Jesus as the Christ. Actual communication with him changes man's life from within; it is here that the answer is waiting."

"Modern science has made wonderful changes in our lives," comments Dr. James H. Shaw, Associate Professor of Biological Chemistry at the Har-

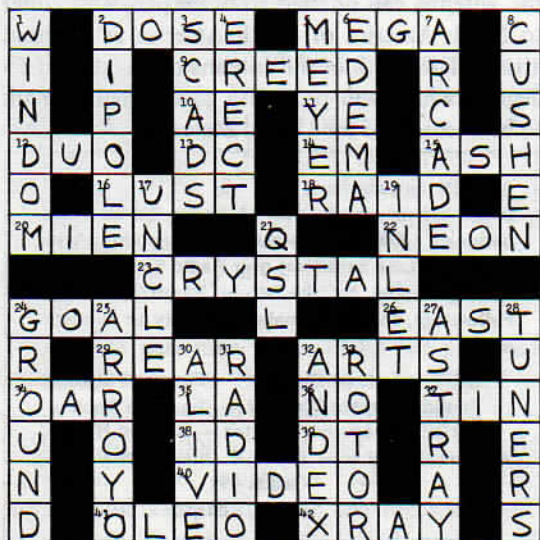
vard School of Dental Medicine. "But no standard for morals, no universal concern for one's neighbor, no satisfaction for the yearning human heart can spring from any amoral, impersonal body of knowledge. Science has no answer to man's dilemma."

What then of the widely trumpeted conflict between science and religion and the bold claim of Anglo-Saxon naturalists and atheists that belief in the supernatural is akin to faith in the pagan myths? This is not only an exaggeration and oversimplification -- it is also a patent falsehood, and some scientists, as we have seen, are saying so today with a directness that contrasts with the timidity even of some theologians.

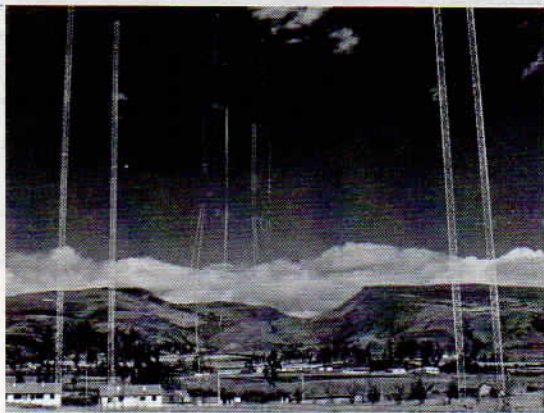
The opinions of these outstanding men of science are well worth serious consideration. Science does not give us the answers to the most important questions of life and eternity. These can only come from God. Solomon knew what he was talking about when he said, "How does a man become wise? The first step is to trust and reverence the Lord" (Proverbs 1:7). Also, "The Lord grants wisdom! His every word is a treasure of knowledge and understanding" (Proverbs 2:6). "If you want favor with both God and man, and a reputation for good judgment and common sense, then trust the Lord completely; don't ever trust yourself. In everything you do, put God first, and he will direct you and crown your efforts with success" (Proverbs 3:4-6).

(All references taken from *The Living Bible*)

DX-WORD SOLUTION - 1



49 METER ANTENNA



49 meter Curtain Antenna

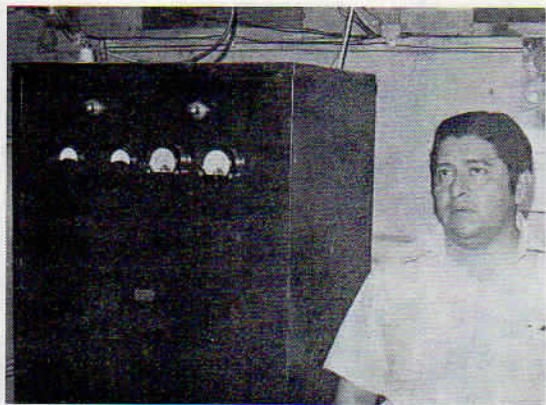
Antennas are among the most important items of equipment used by international shortwave broadcasters. A good antenna can increase the effective power of a transmitter many times in the target area to which the program is beamed. HCJB has been doing much to improve its antenna facilities in recent years. The latest antenna to be completed is one used to serve the Americas on 49 meters.

As we approach the minimum of the 11-year sunspot cycle, the lower frequencies become more effective. This winter, for the first time, HCJB is using a 49 meter frequency for programs to North America. The antenna is supported on four metal towers, two at each end. The towers were fabricated by our HCJB Engineering Department and each one is 240 feet tall. The tower structures were welded together from sections of galvanized water pipe.

The actual antenna is of the curtain type and consists of two major sections. The front, or driven section, to which the transmitter power is fed, is similar in form to the letter "H", but lying on its side. Suspended between two of the towers, the four legs of the "H" are about 9/16 wavelength long, or 90 feet, and run horizontally. The vertical distance between the upper and lower legs is about 5/8 wavelength, or 100 feet. The second section, suspended between the other two towers, is identical in construction and spaced 1/4 wavelength, or 40 feet, behind the driven section. No power is fed to the second section so it serves as a parasitic reflector to make the antenna uni-directional.

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VOZ DEL RIO CARRIZAL



HCOS4 - Transmitter

On the coast of Ecuador, almost due west of Quito, and 20 to 40 miles from the Pacific Ocean, is an area of beautiful rolling hills. This is a very fertile area, rich in agricultural products. The climate is tropical and there is sufficient rainfall so that a variety of products is grown, including bananas, cocoa beans and tropical fruits.

In these hills the Carrizal River has its source and flows northward until it joins the Tosagua River which flows to the Bay of Caráquez some miles to the west. Just before the junction of these two rivers, the Carrizal River flows through the town of Calceta, a lovely little town of about 8,000 population, situated in a region with some 60,000 people. Calceta is surrounded by the beautiful, low, rolling hills covered with green foliage which makes the overall aspect a charming sight. A short railroad once passed through Calceta on its way from the town of Chone to Bahía, a total distance of 64 miles. This contributed to the early development of agriculture in the area. However, with the building of new roads the railway is no longer economical and has gone out of operation.

Taking its name from the river, Calceta's only radio station is called, "La Voz del Río Carrizal," or "The Voice of the Carrizal River." The studios are located in the center of town in an old garage and are quite simple. A small amplifier is used to mix the microphones, four small turntables and two home-type tape recorders. Two radios are also used to pick up programs from other cities to be rebroadcast.

The transmitter for HCOS4 is situated just on the edge of the town on top of one of the highest

hills, next to the new water tank that provides good water pressure for the inhabitants. The transmitter was constructed locally and delivers 1,000 watts of power to a simple dipole antenna which runs east and west. The station operates only on shortwave, currently using a frequency of 3.260 MHz. For many years the station operated on 3.630 MHz, but this frequency is no longer used. All programs are in Spanish, mostly commercial, but some of a cultural nature are also broadcast. The station normally broadcasts only during the evening hours, from 6:00 to 11:00 PM local time (2300-0400 GMT).

The station is owned by Sr. Roque Navarrete Valásquez, and he informs us that they like to hear from DXers in other parts of the world. Reception reports are welcomed and verification is sent as quickly as possible. All reports should be written in Spanish and no return postage is required. If you are able to pick up HCOS4, send your reception report to the following address: La Voz del Río Carrizal, Calceta, Province of Manabí, Ecuador. They will be glad to hear from you, so give this station a try!

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This new antenna has been built so that it will operate with transmitters up to 250 kilowatts in power. At present HCJB is transmitting on 49 meters with one of our RCA 100 kilowatt transmitters. The gain of the new antenna is 16 db, which means that the effective power directed toward North America is 4,000,000 watts. By use of a reversing switch, which makes it possible to feed the power to either of the two antenna sections, the antenna can be used to beam programs either to North America or South America as the need arises. The width of the antenna beam is about 55 degrees which will provide a good signal strength to both coasts of the United States.

ANDEX International —
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