

ANDEX



INTERNATIONAL

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DXer OF THE MONTH



Larry Lundberg - ANDEX No. 251

Minneapolis, Minnesota, is the home of our "DXer of the Month" for September, 1974. Also known as the "Twin City Night Owl", Larry Lundberg has been interested in shortwave radio for many years. He was active in the hobby from 1936 to 1941 and has had a renewed interest since 1967. He first heard HCJB many years ago and has a verification dated back in 1938.

In the basement of his home he has a very well equipped listening post which could be the envy of any serious DXer. Receivers include a Hallcrafters SX-110 communications model, a Grundig TR-5000 Satellit all band portable and a Realistic Patrolman. In addition to a 50 foot long wire antenna, Larry also has a Partridge Joy Stick, a fan vertical and the telescopic whip on the Grundig. He also uses 2 Panasonic cassette recorders. Other items in his shack are too numerous to mention. The walls are covered with maps, membership certificates and verifications.

Larry spends about 4 hours a day in DXing with an increase to over 8 hours on weekends. Most of his listening is done between 1000 and 1400 GMT or from 0030 to 0500. He also finds time to serve

as a Director of the Club des D-Xers du Quebec in Canada, is active in promoting the Minnesota DX Club in his home town, so we wonder when he finds time to carry on his work as a materials control supervisor! He has an interest in several other hobbies such as stamp collecting, coins, picture postcards and writing articles. He has a pet cat, "Rusty", who is also an ardent DXer.

We are happy to have Larry as a member of ANDEX, No. 251, and wish him many more years of successful DXing and SWling. He well deserves to be chosen as "DXer of the Month", and we send him our congratulations.

HCJB ENGLISH SCHEDULE

Most international shortwave stations make frequency changes effective the first week of September. To keep you up-to-date, here is the current HCJB schedule for English programs for the period September 1 until November 3, 1974:

To North America:

0030-0500 GMT: 11.915, 9.560, 5.970 mHz
0500-0700 GMT: 9.560, 5.970 mHz
1215-1230 GMT: 11.745 mHz
1230-1300 GMT: 15.115, 11.745 mHz
1300-1630 GMT: 17.880, 15.115, 11.745 mHz
(Sundays only signoff at 1600)

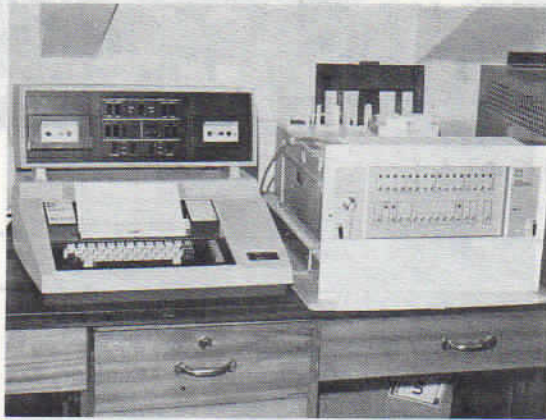
To South Pacific:

0500-0700 GMT: 11.915 mHz
0715-0830 GMT: 11.915, 9.745 mHz
0830-1045 GMT: 9.745, 6.130 mHz

To Europe:

0715-0830 GMT: 11.915, 9.760, 6.080 mHz
0830-1030 GMT: 11.915 mHz
1730-1800 GMT: 17.705, 15.315 mHz
1900-2030 GMT: 17.705, 15.300 mHz

PROGRAM CONTROL



TI-960A Minicomputer

In an extensive operation such as HCJB where there are 8 transmitters in operation with differing program content and beamed to widely varying areas of the world, the potential for human error in operation is very great. Since we have never had perfect operators, and never will, HCJB is engaged in the development and installation of a Program Automatic Control System, or PACS, to help the human operator provide flawless programming.

The basic element of PACS is a Texas Instruments 960A minicomputer which is specially designed with automatic control of equipment and processes in mind. This computer will operate in conjunction with CRT information displays, an input output data terminal, audio multiplexers, tape decks, a digital clock, program level processors, a multichannel program fader and level monitor as well as other devices to provide the smooth program control that is desired.

In the PACS operation, the entire HCJB schedule will be placed in the computer memory. Coded information will also be placed on all program

tapes. The control operator will be given the tapes for the coming hours of programs. The operator can check the program schedule as given him by the computer on the CRT display. He can then load up the various tape decks with the tapes required during the next 1 or 2 hours. After loading each tape, he presses a button to indicate to PACS that the tape is ready for use. PACS then turns on each tape deck, identifies the program, and checks it with the schedule. If an incorrect tape has been loaded, the operator is notified. If a needed tape is lacking at a determined time prior to its airing time, the operator is warned. In either case, the operator has sufficient time to make the necessary correction. PACS, then, with the various tape decks loaded with the required programs, turns on the programs at the correct times and switches them to the proper transmitters for broadcast on the scheduled frequency and antenna to reach the desired area of the world.

PACS will further smooth the flow of programs from HCJB by slowly fading each program at the end to prevent an abrupt cutoff. It will prevent any overlapping of two programs or dead air time between programs by automatically inserting compatible fill-in material in case any program is too short. PACS will work 24 hours a day and never get tired or go to sleep. PACS always has one eye on the clock, which is internal to himself, and will see to it that all programs, station identifications, and time signals go out exactly on schedule.

(Above information provided by Bill Dufendach)

VILCABAMBA

How long do you expect to live? Most people when asked this question would probably give the common answer: 3 score and 10, or 70 years. In Southern Ecuador, in the town of Vilcabamba, you might get a very different answer. People living there would be more likely to say 100 years. The Andean village of Vilcabamba is one of 3 places in the world where the inhabitants are alleged to live longer and remain more vigorous than in most modern societies. The other 2 are Abkhazia in the Georgian Soviet Socialist Republic on the Black Sea, and the land of Hunza in Pakistani-controlled Kashmir. In these 3 areas many individuals live to the age of 100 or on up to 120 years and even more. Shirali Mislimov, living in Abkhazia, claims to be the oldest living person at 169.

ANDEX International —

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A census taken in 1971 showed 9 centenarians among the 819 people living in Vilcabamba. This is a rate 350 times greater than in the United States. Scientists from many parts of the world are studying the elderly in the 3 areas in an attempt to determine the cause for their long life. There are some factors that seem to be similar in these 3 widely separated sections of the world.

Vilcabamba is in a mountain valley about 5,000 feet above sea level. In fact, all 3 regions are mountainous and relatively isolated. They all have a mild climate without extremes of temperature and life is tranquil and enjoyable. In all 3 areas agriculture is the main occupation, and the inhabitants are accustomed to an active outdoor life starting in early childhood. The elderly remain vigorous and active. They find work they can do and feel needed and wanted. Once they can no longer work, they usually die quickly.

Perhaps diet has something to do with the longer life. In all 3 areas the diet is scant. In Vilcabamba the daily diet provides an average of 1,200 calories to the elderly compared to an average of 3,300 in the United States. Protein and fat intake is also very low with most of it coming from vegetable sources. Another factor could be heredity. Most of the centenarians listed one or more ancestors who also lived well past the 100 mark. Most of the elderly are slim with overweight being a very rare problem.

Whatever the reason for so many reaching the age of 100 in these areas, scientists are studying to try to determine the factors involved. It could mean much in helping the rest of us to live long and healthy lives. Residents of Vilcabamba seem to be particularly free of all types of cardiac problems. There are even many reports that patients suffering from heart problems have been marvelously healed by living a few months in this town.

All of us are interested in what the scientists discover as they study the longevity of life in these 3 areas of the world. However, there are others in history who had even longer lives than these centenarians. In the early chapters of the book of Genesis, before the Great Flood, the records tell us that many people lived for nearly 1,000 years. The longest life recorded is that of Methuselah, who was 969 years of age when he died!

No matter how long a person lives -- 70, 100 or

ANDEX Membership Report: As this issue of ANDEX International goes to press, we have 950 members from a total of 42 countries. Tell your friends about ANDEX and help our membership grow.

even 900 years -- one thing is certain. Death follows every life no matter how long or short it is. The Bible says, "It is appointed unto men once to die, but after this the judgment" (Hebrews 9:27). We want you to have the longest life possible filled with good health and worthwhile employment. However, don't forget that death, judgment and eternity lie ahead of you when your life on this earth terminates. Even 120 years is insignificant when compared with the endless ages of eternity that stretch out before us. How important it is to make sure we are prepared for that day when we face God's judgment. "Jesus saith ... I am the way, the truth, and the life: no man cometh unto the Father, but by me" (John 14:6). "For there is one God, and one mediator between God and men, the man Christ Jesus" (I Timothy 2:5). "Neither is there salvation in any other: for there is none other name under heaven given among men, whereby we must be saved" (Acts 4:12).

MEET THE ENGINEERS



Bill Dufendach

Following a number of years of employment in electronic industries in the United States, Bill Dufendach joined the engineering staff of HCJB in August of 1973. He is at present involved in the development and installation of the Program Automatic Control System for HCJB which is described in another story in this ANDEX International.

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LA VOZ DE LOS CARAS



Operator - Galo García

On the Pacific coast of Ecuador there are many beautiful towns. Some have developed into popular vacation resorts. During the hottest season of the year, thousands of people escape the weather by spending their vacations on the beach. One of the loveliest resorts is Bahía de Caráquez which is situated on a beautiful bay. The drive to this town is breathtaking as one follows the bay and finally sees the town on a point of land where the bay joins the ocean.

In the days prior to the Inca conquest, this part of what is now Ecuador was inhabited by a tribe of Indians known as the Caras. It is this early pre-Inca tribe that gives its name to one of the 2 radio stations in Bahía that broadcasts on shortwave. This is "La Voz de Los Caras" which has been on the air in this beautiful town since 1946. The studios are located on the first floor of a building on the main street which fronts directly on the Pacific Ocean with the transmitter and antenna on top of a low hill directly behind.

La Voz de Los Caras operates only on shortwave, using a frequency of 4.795 MHz. Their transmitter was manufactured locally and provides 1 kilowatt of power to the dipole antenna. The programs are well heard in the area and, during the evening hours, cover most of the country. All programming is in Spanish and includes commercial, cultural and sports content. A simple amplifier is used to mix the outputs of 2 turntables, several simple tape recorders and the microphones. The station is on the air from 7:00 a.m. until 11:00 p.m. local time each day (1200-0400 GMT).

The manager of the station, Sr. Marcelo Nevarez,

indicates that they receive many letters containing reception reports. They are always received with appreciation, and he would encourage anyone hearing the station to send a report. Verification is sent in the form of a letter and pennant. Reports should preferably be in Spanish, but they can also handle English. No return postage is required for a verification. Send your reception report to La Voz de Los Caras, Apartado 608, Bahía de Caráquez, Manabí, Ecuador.

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Bill was born in Kokomo, Indiana. His education took him to Purdue University where he earned the BSEE degree and then on to Stanford University for an MSEE degree. This was followed by 2 years of instrument design and testing with the Hewlett-Packard Co., 1 year of test equipment design with Delco Radio, 4 years of aero-space electronic systems design with Lear-Siegler, and finally, 14 years experience with automation equipment and lasers with the Vari-Tech Company in Grand Rapids, Michigan.

During a Missionary Conference at the Calvary Church in Grand Rapids, the work of HCJB was presented. This was Bill's first contact with the work of HCJB and led to his joining our engineering staff a few years later.

At the age of 16, Bill became an amateur radio operator which he still enjoys as a hobby, along with flying and gas welding. He is also active as a Sunday School teacher in the English Fellowship Church in Quito. His favorite Bible verse is Colossians 3:17, "Whatever you do in word or deed, do all in the name of the Lord Jesus Christ, giving thanks through Him to God the Father."

Listen to DX Party Line and invite your friends to tune in. Heard 3 times each week on HCJB.

For South Pacific: Monday-Thursday-Saturday
0930 GMT 31 m - 9.745 MHz
49 m - 6.130 MHz

For Europe: Monday-Thursday-Saturday
0930 GMT 25 m - 11.915 MHz
1930 GMT 16 m - 17.705 MHz
19 m - 15.300 MHz

For North America: Tuesday-Friday-Sunday
(Monday-Thursday-Saturday 9:30 PM EST)
0230 GMT 25 m - 11.915 MHz
31 m - 9.560 MHz
49 m - 5.970 MHz