

# ANDEX



## INTERNATIONAL

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### MEET THE STAFF



*Roger Stubbe prepares the next HCJB schedule*

When Roger Stubbe arrived in Quito during the month of August, 1965, to begin his work with the Engineering Department, he was no stranger to HCJB. During his high school days, he had listened frequently to programs from Quito on his parents' large console radio, a Ward's Airline model built back in about 1938. This helped to spur his interest in electronics and it was during these same days that he obtained his amateur radio operator's license, WOZMU.

Roger was born in southwestern Minnesota. About four years later the family made a short move of about 15 miles to the south. This took them across the border into Iowa. It was in this area that Roger received his early education. Then he went to Iowa State University, in Ames, where he earned his degree in electrical engineering. After graduation he obtained valuable experience for his work with HCJB, first with the Collins Radio Company in Cedar Rapids, Iowa, where he worked on airborne SSB communications equipment. Later he worked for the E.F. Johnson Company in Waseca, Minnesota. At that time E.F. Johnson was one of the leading manufacturers of amateur radio equipment. They are now well-known as

the largest manufacturer of CB communications equipment in the United States.

While living in Waseca Roger and his wife, Joyce, whom he met at a church camp before entering the university, were active in the Evangelical Free Church. He was also an active amateur radio operator. These two activities worked together to bring him to HCJB. The church had a strong missionary program with frequent contacts with missionaries. Roger had found the Lord as his Savior at an early age and soon felt a strong urge to dedicate himself to missionary work. His activity as a ham brought him in contact with some of the HCJB staff as he talked with them by radio. Before long the Stubbes had applied to HCJB to serve in Ecuador. In January of 1965 they arrived in San José, Costa Rica, for a few months of language study before coming to Quito. They have two daughters, Sandra, fifteen, and Lori, thirteen.

Roger has served in various capacities in the Engineering Department. About four years were spent at our transmitter site in Pifo where he worked on transmitter and antenna construction. He was responsible for the assembling and preliminary work on our first RCA 100 kw transmitter. He also spent one year as the engineer assigned to our hydroelectric power plant at Papallacta. Beginning in 1970 he served for two-and-a-half years as Director of Engineering.

During the past few years Roger has served as Frequency Manager and now he has the added responsibility of being Coordinator of International Services. In this capacity he is responsible for assigning transmitters, times, and frequencies for the various language services. This also involves making up the international broadcast schedules four times each year. He also coordinates listener reports as a means of verifying reception and checking on the effectiveness of the broad-

casting schedule. This is where the reception reports sent in by DXers and SWLs prove to be valuable.

Roger's voice became well-known to many short-wave listeners when he was host on the DX Party Line program during the first months of 1973. He currently has two DX programs on HCJB. A DX portion of the Japanese Service is broadcast in slow English twice a week. This is heard at 1130 GMT on Fridays and 1200 GMT on Sundays, ten minutes each time. A weekly DX program is broadcast on our Spanish schedule once a week. This is a fifteen-minute program released at 0145 GMT each Thursday and carried only on the 25-meter international frequency. Roger is also serving currently as the Coordinator of the Portuguese Service.

As you can see, Roger is a busy person, and we appreciate the important contribution he is making to the work of HCJB.

## YOUR DESTINATION?

August is a month of vacations for many ANDEX members. Others may have recently returned from a few days of rest and change. Most vacation trips are planned carefully in advance. Time and energy is spent in deciding just how to get the most out of the few days available. Many vacationers take advantage of the services of experienced travel agencies to help them make decisions as to how, when and where to go. As a DXer you will probably plan to take a portable shortwave radio along.

In this life we are headed for a destination that is permanent and eternal. You should give this trip as careful and thorough planning as you would your vacation. This trip is just one way and the

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fare is all paid. In fact, there isn't any monetary cost involved from the start of the journey throughout the countless ages of eternity.

Your trip through life will lead you to one of two places. There are just two roads that you can take depending on the plans you make. One road leads to a place known as hell. The other leads to heaven. The Lord Jesus said, "Heaven can be entered only through the narrow gate! The highway to hell is broad, and its gate is wide enough for all the multitudes who choose its easy way. The Gateway to Life is small, and the road is narrow, and only a few ever find it" (Matthew 7:13-14).

These two roads are travelled by two different classes of people - the saved and the lost. To be lost you need to do absolutely nothing. The Bible declares that man is already lost. To be saved you must make the most important decision in your life. You must come to the realization that you are lost and on the broad and wrong road. You must turn from your sin and trust the Lord Jesus Christ as your personal Savior. This decision will put you on the narrow and right road that leads to heaven. As you travel this road you will not be depending on good works, morality, church membership or philanthropy, but only on Jesus Christ. Jesus said, "I am the Way - yes, and the Truth and the Life. No one can get to the Father except by means of me" (John 14:6).

Once you depart from this life your eternal destiny cannot be changed. The saved and the unsaved are separated forever. Your eternal destination is determined in this life. It is not a matter of waiting until death and then taking your chances. God is still saying, "I have set before you life or death, blessing or curse. Oh, that you would choose life; that you . . . might live!" (Deuteronomy 30:19).

What plans are you making as you travel through life? Which road are you taking? Be sure to make the right choice now. Receive the Lord Jesus Christ as your own personal Savior and settle on heaven as your eternal destination. Trust your all to the living Christ right now and enter into life eternal!

A soft answer turns away wrath, but harsh words cause quarrels. (Prov. 15:1 - *Living Bible*)

## CARTOON CORNER



« The DXer »

*Drawn by Robert Peil, ANDEX No. 160  
of Ferchaud, France*

## FREQUENCY SELECTION

International shortwave broadcasters generally make changes in their broadcast schedules four times each year. March, May, September, and November are the months when new frequencies and times for transmissions are put into effect. Changes take place at 0100 GMT on the first Sunday of the month. These four periods agree roughly with the seasonal changes and are the most practical method of keeping up with changing propagational conditions. The actual selection of frequencies to be used as a new period approaches is quite complicated. However, it might be interesting to consider a few of the many factors involved in reaching the final decisions.

The purpose of a shortwave broadcaster is to reach the largest audience possible in the target area with not only a strong, clear signal, but at a time convenient to the listener. The time of each transmission is of vital importance and is given first consideration. Generally speaking, the best hours are from 7:00 to 9:00 a.m. and from 7:00 to 11:00 p.m. local time. This can vary in specific areas due to cultural differences or perhaps some local radio or television programming.

Surveys can be made to determine the best listening hours for any particular target area. There may be conflicts between different language groups which are to be served. In such cases priorities have to be established in order to plan the overall station schedule.

Once the decision has been made of the time for each broadcast, it is not difficult to determine which meter bands will give best reception. HCJB uses computer-based calculations for this purpose. Knowing the geographical locations of the transmitter and the target area, the predicted sunspot number, and the day of the year, these computer read-outs give information that has proved to be very reliable. As far as possible it is best to use two or three transmitters in as many bands to help give good reception in spite of the daily fluctuations in the ionosphere.

Selection of the actual frequencies within the internationally recognized shortwave bands is the most difficult problem. Choice of a frequency that will give clear reception and not cause interference to another station is the goal. Most stations report their intentions to the International Frequency Registration Board six months ahead of planned usage. This information, along with other broadcasters' schedules, past listeners' reports, and a generous dose of experience dictate the final decisions. As all shortwave listeners know, the bands are overcrowded. Correspondence between broadcasters is often carried on, with juggling of frequencies, right up to the deadline. Every effort is made to cooperate with other stations so as to obtain the best use of the few frequencies available.

The first week or two after a new schedule goes into effect is the critical time when reception reports from DXers and SWLs are of most value. Are the new frequencies getting through to their target? Is there serious interference? Reception reports confirm the validity of the decisions made during the preceding months. On the other hand, they may indicate that a few minor adjustments must be made. In either case, this is where you, as a DXer or SWL, can be of real help to us. We want you to know that we appreciate your help as you send us your reception reports. They are invaluable as we try to serve you, and our other listeners, by assuring us that our transmissions are reaching you with the greatest possible strength and clarity.

## DXer OF THE MONTH



*Jim Taylor's listening post*

This month we are featuring a DXer who has been involved in the shortwave hobby for many years. Jim Taylor got his start back in 1927, nearly fifty years ago. Not many DXers can equal his record!

Jim lives in New Albany, Indiana, in the United States. He is ANDEX member No. 1647 and has recently renewed his membership for a second year. Jim worked for many years in the field of electronics, including radio and television. He enjoyed experimenting with communications equipment of all kinds. Most of the electronic gear shown in the picture was obtained from the junk yard or purchased secondhand. His expertise at reconditioning has put it all back into good operating condition. More recently, Jim has been afflicted by a combination of several physical problems. He is now totally disabled and has to spend most of his time in bed.

The shortwave receiver used by Jim is a Lafayette HA-225. He has no external antenna but finds he can get good reception from many stations by connecting his receiver to the window screen. Being disabled, shortwave listening is an ideal hobby and he has time to spend several hours a day listening to the world. He first heard HCJB many years ago and now listens frequently. Favorite HCJB programs include DX Party Line and Unshackled. He enjoys the old-time songs and hymns. Other equipment includes an FM-AM radio, amplifier, cassette recorder and various pieces of test equipment.

Perched on Jim's left shoulder is his assistant

DXer, a parakeet. Perhaps he helps Jim pick up a few of the rarer DX stations! Jim enjoys both DXing and shortwave listening. He has also collected a few QSL cards during the past years. Some of them are displayed on the wall.

We are proud to have Jim Taylor as a member of our ANDEX club. We trust he will improve physically in the coming months and continue to have good reception on his HA-225 receiver.

## NEW TIME STATION

Ecuador will soon be included among the countries that operate standard frequency and time stations. The Oceanographic Institute of the Ecuadorian Army is in the process of installing this station on the Pacific coast of Ecuador. Plans are for the station to be in operation by the end of 1976.

This new service will provide not only the official time for the country of Ecuador, but also a frequency standard for radio and television stations and radio-navigation systems. It will help sailors in Ecuadorian waters to determine their location much more accurately than in the past. Mapping of the country and territorial waters will also be aided.

The station will be built around two independent atomic clocks. While one is in use the other will serve as a standby. Each clock will have an accuracy of within one-and-a-half milliseconds a year. Equipment will be provided to monitor the difference in time between the two clocks as well as to compare it with time signals received from stations in other countries, such as WWV in the United States. Recording equipment will give vocal announcements of the station identification, official time and meteorological messages for sailors.

The announcement of this new service for Ecuador did not give specific details as to the transmitter frequency, the exact format of the material to be broadcast or the output power of the signal. We will include this information in a future issue when it has been released by the Ecuadorian Government.

Once in operation, this new service will give DXers another utility station to look for on their receivers.