



ANDEX

International



Vol. 12, No.5

October-November, 1985

CLAYTON'S COLUMN: ANARC Convention Report

In late July, another very successful convention for DXers was held by ANARC, the Association of North American Radio Clubs, in Milwaukee, Wisconsin. Sponsored by the National Radio Club, the convention was held in the Red Carpet Hotel on the edge of the Milwaukee airport. Here 260 avid DXers convened for the three day convention. It was a time to renew old acquaintances, make new friends and have a good time discussing the many interesting aspects of the DXing hobby. The 1985 ANARC convention committee, with Mike Knitter as chairman, did an excellent job planning the program details and making all the arrangements.

Exhibits and Sessions

As usual, there was a room filled with exhibits provided by several shortwave equipment dealers and publishers. Those attending the convention had the opportunity to see, try, and even purchase the latest in sophisticated receiving equipment. In an adjoining hall, sessions were held on a variety of topics of interest to DXers. These sessions were well-attended and there was always a steady flow of interested people milling around the displays.

Since Helen and I now live in Florida, I had to fly up to Chicago a couple of days ahead of the convention. It was an opportunity to visit with my sister who lives, with her husband, close to O'Hare Airport. I was able to borrow a car and drive to Milwaukee for the Saturday activities. I arrived about 10a.m. and found the convention in full swing as I entered the hotel. It didn't take long to find a number of old friends and the hours passed rapidly as we talked about earlier conventions and our present DXing involvements. This was the highlight of the convention for me as one after another came by and we talked. I wouldn't even try to guess exactly how many old friendships were renewed during the day. It was also enjoyable to have many introduce themselves and tell me that even though they had never met me before they have been listeners to the DX PARTYLINE for months or years. In fact, I was having such a good time that it was

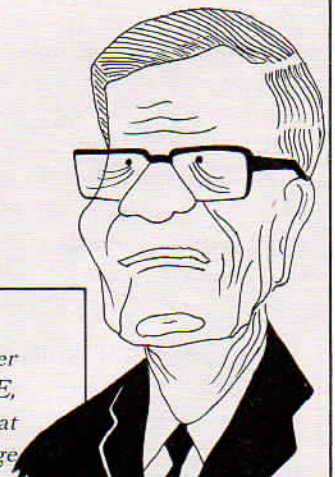
after 4:30p.m. before I suddenly realized I had had no lunch. I was getting rather hungry and feeling a bit weak!

Back in January I had been asked to be the banquet speaker on Saturday evening. That was my main purpose in attending the 1985 convention. About 165 DXers participated in the delicious buffet style banquet. Let me assure you that the food was first rate. The tables were loaded with all kinds of tempting delicacies as we walked past and filled our plates from the many choices available. No one could have been hungry after that spread of food!

ANARC Awards

Following the banquet, Terry Colgan, ANARC Executive Secretary, announced the annual ANARC awards. North American DXer of the Year award went to Larry Lundberg of Minnesota. Larry has been an active DXer for many years and deeply involved with the Minnesota DX Club. North American Specialty Band DXer of the Year award went to Nick Hall Patch of Canada. The International DXer award was given to Ralph Perry who lives in Kuala Lumpur, Malaysia. The final award, Broadcaster of the Year, went to Willis Conover, a familiar broadcaster on the Voice of America. An interesting article in the July 1985 issue of Reader's Digest tells the story of Willis Conover's years with the VOA. It makes fascinating reading so look it up if you haven't already seen it.

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ANDEX founder and former host of DX PARTYLINE, Clayton Howard now lives at 20 Westlake Drive, Orange City, Florida 32763 U.S.A.

andexing

FROM YOUR EDITOR: Thank you for your patience with my experiments with the layout of the bulletin. This issue has been increased to eight pages. There are some problems involved with an eight page issue rather than the usual six pages: 1) the availability of quality material, 2) the extra cost, 3) the extra time it takes. You can be a tremendous help just by remembering and accepting the fact that **EIGHT PAGES THIS TIME DOES NOT GUARANTEE EIGHT PAGES NEXT TIME.** I would like the freedom to use six OR eight, depending on the three variables above.

Have you returned the ANDEX questionnaire yet? I'm looking forward to receiving your preferences, suggestions, etc. and will share the results in future issues of *ANDEX International*.

ANOTHER LOCATION FOR PAYMENT OF ANDEX FEES is now available at the HCJB office in Switzerland. This brings to 11 the number of different HCJB offices where members can pay in their own currency. Once a year ANDEX members receive a renewal notice and directions on how to pay.

THREE BOOKS AT BIG SAVINGS FOR ANDEX MEMBERS have been offered by Gilfer Associates, 52 Park Avenue, P.O. Box 239, Park Ridge, NJ 07656 U.S.A. telephone 201 391-7887.

-the *World Radio TV Handbook* - 40th Anniversary Edition - contains up-to-date listings of frequencies, times, schedules, and special articles and news about shortwave - regular price \$19.95 - special price \$15.95.

-*Radio Receiver-Chance or Choice* - 256 pages giving reviews through real-life tests to over 75 different receivers - \$18.50 - if purchased with WRTVH only \$32.00 for the two.

-Gerry Dexter's *Address Book* (Fifth Edition) - dozens of additional listings and a new "A" list for the beginner with rapid responders to build their QSL collection quickly - \$8.95 - if all three books are ordered together only \$40.00 for the three.

*Shipping within U.S.A. is \$1.50 for first book, 50¢ each additional book.

THE TRINIDAD & TOBAGO INTERNATIONAL CB & DX CLUB, P.O. Box 25, Port of Spain, Trinidad, W.I., was officially inaugurated June 20, 1985. Kent P. Sheppard, President, has extended an invitation to ANDEX members to join this new club.

RADIO SOUTH AFRICA LITERATURE was recently sent to ANDEX. The Voice of South Africa in Johannesburg, was inaugurated in May of 1966 and broadcasts from modern studios in English, French, Portuguese, Swahili, Chichewa, German, Dutch, Afrikaans, Spanish, Lozi, and Tsonga 208 hours a week. Its target areas are Africa, Latin America, Germany, Austria, Switzerland, Holland, Belgium, France,

the Middle East, the United Kingdom, the Irish Republic, and North America, but it is also heard clearly in countries well outside its normal areas, such as the Far East, Scandinavia, and Australasia. That covers a lot of space, doesn't it? If you are interested in getting more information from them, their address is Box 4559, Johannesburg 2000, South Africa.

FREQUENCY AND TIME TRANSMISSION: Kwon Oh-Taek, ANDEX 4755, advises us that the Korean SWL Association, with a call sign of HLA puts out a weekday standard frequency and time transmission from 0100 to 0800 UTC on 5000 kHz. Asian and Pacific listeners who do not hear WWV or WWVH well may be able to log this transmission.

BACK ISSUES OF ANDEX INTERNATIONAL are being offered by Jorg Boggel, Friedrichsruher Str. 4, D-4600 Dortmund 18, West Germany. He requires three IRCs per volume and two IRCs for Volume 12-1985. The following issues are available:

Vol. 5,	No 3 to 5	and 7 to 12	(1978)
Vol. 6,	No 1 to 9		(1979)
Vol. 7,	No 2 to 12		(1980)
Vol. 8,	No 1 to 10		(1981)
Vol. 9,	No 1 to 6		(1982) - bimonthly issues!
Vol. 10,	No 1 to 6		(1983) - 4 -
Vol. 11,	No 1 to 5		(1984) - 4 -
Vol. 12,	No 1 to 3		(1985) - 4 -

COVER ALBUMS that will hold QSL cards from HCJB and European stations are available from Franz Schwartz Jr., 414 Sabra Drive, Wilmington, NC 28405. For more details you'll need to send him a self-addressed, stamped envelope. He can only reply to people in the United States.

TOPICAL SPECIALS that will be offered on the hour-long Friday editions of HCJB's PASSPORT magazine program (heard Saturdays in the South Pacific):

DATE	TOPIC	HOST
Nov.8	Festivals in England	Rowena Turner
Nov.15	Television and the Home	Brian Seeley & John Beck
Nov.23	Eating	Jan Anderson & Marian Osborne
Nov.28	Thanksgiving Special	Paul Bell
Dec.6	Quito Revisited	Dec Baklenko & Rowena Turner
Dec.20	The Suzuki Method of Teaching Music to Young Children	Jan Anderson & Noretta Singley

HCJB'S OPEN LINE INTERNATIONAL CALL-IN PROGRAM SCHEDULE:

November 23 - DX PARTYLINE with John Beck
 December - None
 January 20 - PASSPORT with Jan Anderson.

CLAYTON'S COLUMN, continued

Following these awards came the moment I had been looking forward to, when I had the honor of speaking at the ANARC Convention. I tried my best in a little more than half an hour to tell some of the interesting things that had happened in 44 years with HCJB. The time went fast and there was no way to include everything I had hoped to say. Actually, it was more just reminiscing about the past than a formal speech. Following my talk came a moment that I will long remember. Terry Colgan presented me with a framed resolution on behalf of ANARC. I was humbled by the applause that came as the audience stood to their feet for a few moments. This resolution now hangs in a very prominent place in our Florida home.

The banquet activities ended a little before 10p.m. and I still had a two hour drive ahead of me so I left as soon as possible after saying goodbye. The convention continued with an auction of several pieces of shortwave equipment that had been donated to the convention. I was unable to return to Milwaukee for the final events of the convention on Sunday.

From all I could gather in talking with the DXers present, it was one of the best ANARC Conventions ever, and one that will bring happy memories to those who attended. If you couldn't get to Milwaukee this year, start making plans for the 1986 convention. It will be held in Montreal, Quebec, Canada July 18-20, 1986. The host will be Radio Canada International.

RESOLUTION

WHEREAS Mr. Clayton Howard has devoted forty-three years of his life to serving international shortwave listeners through his association with station HCJB in Quito, Ecuador; and

WHEREAS Mr. Howard has hosted one of the most popular programs for radio listeners--the DX Party Line-- over HCJB for twenty-two years; and

WHEREAS Mr. Howard has announced his intention to retire from HCJB this year; and

WHEREAS with his retirement, shortwave listeners will lose the voice of a true friend;

NOW THEREFORE BE IT RESOLVED that the Executive Council and the members of the Association of North American Radio Clubs, assembled in regular annual meeting in Toronto, Ontario on July 20, 1984, do hereby express their gratitude to Mr. Howard and extend to him and his wife Helen their best wishes for a long and happy retirement.

Resolution adopted this 20th day of July 1984.



ATTEST:

Richard T. Colgan
Richard T. Colgan
Executive Secretary

HCJB STAFF

HCJB staff at the annual members' meeting in October 1985. Regular membership totals 284 from 26 countries.



TRENDS IN SHORTWAVE BROADCASTING

by Ken MacHarg

There are plans for many new shortwave stations to go on the air from the United States. This implies several things.

Conclusion:

For the QSL card hunter, there will be that many more new stations to log and from which to request materials.

But those stations will add further problems to the already overcrowded bands. While most of the new stations will come on with just one transmitter, some of the older facilities such as WRNO and WINB are considering additional transmitters. WYFR alone has grown to 15 transmitters in just the past few years. The situation will become particularly acute in North America where most of the stations will be located and where already established transmitters currently cause some interference, but other parts of the world may experience some interference as well.

Programming is bound to be affected by additional stations. Most of the proposed commercial outlets, except the Kentucky and Alabama stations, are planning to pattern their international service close to their domestic AM or FM outlets. Thus, they can be expected to offer primarily one format of music (such as rock, jazz or country), little news or public affairs, some sports and necessary commercials.

The newly proposed Christian stations will offer some variety of format, but can be expected to offer a good deal of syndicated material. The careful listener will detect a theological difference between the outlets, however. Little is known about the group currently building Voice of Yahweh station in Pennsylvania, but programs are expected to be primarily in lecture/preaching style. Meanwhile, the Lester Summerall group recently said, "We will differ somewhat from HCJB and TWR in that we are more 'charismatic' in our approach."

The new, privately-owned stations also raise some as yet unanswered questions.

First, will the introduction of U.S.-style radio to the international airwaves cause the already existing stations (most of them government-owned) to modify their current formats? Will they move more toward music and short, popular features? Or will they continue with their in-depth news and background information programs? Some of those questions will be answered by the audience targeted by each station. In general, listeners in the U.S. are looking for an alternative to the usual format and thus enjoy international broadcasting in its present form. U.S. expatriates, on the other hand, might enjoy hearing familiar programming from back

Programming is bound to be affected by the additional stations.

home. And then, those in other lands, who are much more conscious of world affairs, might enjoy a mixture. Part of the answer will be determined also by how popular the stations which follow the U.S. format become, and whether they draw large numbers of listeners away from the government stations.

Another question is whether several commercial shortwave stations are economically viable. Since commercial stations exist primarily to make money, the owners of commercial shortwave stations will also want to make a profit, or they will soon turn off the transmitter. Reports indicate that the commercial stations currently on the air from the U.S. (WRNO and KYOI) are not viable financially only through the sale of commercial time. Thus, their main source of income comes through the sale of time to religious groups.

That raises the question of the impact on existing Christian stations and the future of the proposed Chris-

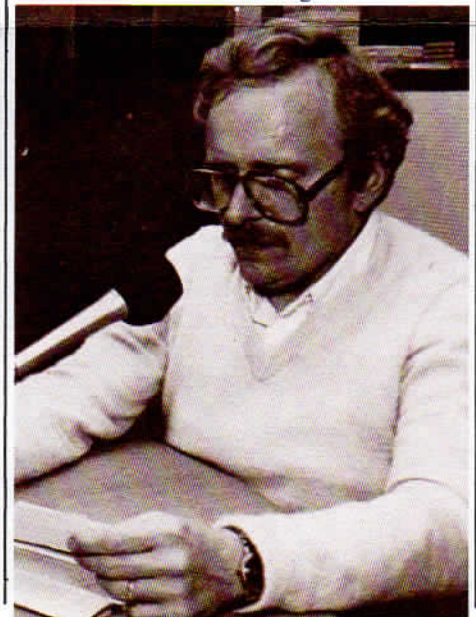
tian stations. Many of the current stations, such as HCJB, receive a good deal of income from churches and individuals who support their missionary efforts through generous contributions. In addition all of the Christian stations make time available to cooperating broadcasters who share in the cost of the air time.

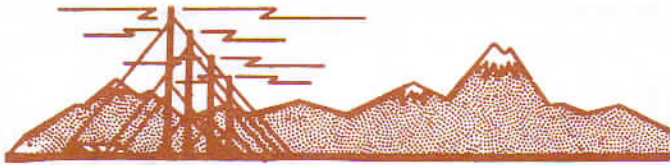
The growth in the number of Christian and commercial stations all using programs provided by syndicators could have programming and financial implications down the road for all involved.

Time will tell the ultimate impact of these new U.S. stations. Already some of the proposed or planned stations have slowed their pace or shelved their plans because of financial difficulties. (The Lester Summerall group estimates it will cost them \$1.1 million to put their one transmitter and two antennas on the air). It is likely that some of those stations widely announced will never make it on the air. Still others will come on.

The real winners should be the listeners who will have even more to listen to on their shortwave bands.

Ken MacHarg





ANTENNA CORNER: *Active Antennas* by Don Hastings

Active antennas are now available commercially and may be beneficial to some shortwave listeners who live in apartments or have very limited space in which to install an ordinary sized antenna. They are small in electrical terms and have a solid state amplifier located at the antenna terminals where the transmission line from the radio receiver is connected. The better active antennas also include a pre-selector for tuning the antenna to the desired frequency or shortwave band.

The main reason for putting the amplifier right in the antenna is to amplify the signal received by the antenna before it is subjected to losses and noise in the transmission line leading to the receiver. Better designed units will also improve the transfer of received signal from the antenna to the receiver by providing a better "match" between these units. Hopefully these benefits will permit the small antenna to perform almost as well with your receiver as a full sized antenna.

Small antennas do have a very serious drawback in that the amount of signal power they are able to capture from space is limited. The resulting signal delivered will be quite weak compared to that of well-designed, full-sized antennas. The amplifier for the small antenna must be a very low-noise unit in order to overcome this weak signal problem. For that reason active antennas which try to cover all shortwave bands would probably generate too much noise to be worthwhile. Those active antennas which include a pre-selector would be much better, since the noise is dependent on band width of the amplifier. Of course if interference, atmospheric noise or man-made noise is a serious problem the active antenna would be no help at all.

The features to look for in an active antenna include the following. The antenna portion should not be excessively short - the longer the better. Reception will be improved if the ends of the antenna are wide as in a bow tie shape, as it would provide better capacitive coupling to space. The gain of the amplifier is less important than its low noise properties and it should have a pre-selector. If one can be found with these features, it has a good chance of improving reception.

It should be noted that the collapsible whip which is a feature of many high quality shortwave receivers qualifies as an active antenna, since the receiver amplifier is located at the antenna terminals with no transmission line used. With a very sensitive high-quality receiver, the receiver front end will equal or exceed most active antenna amplifiers. As a result the whip may do nearly as well as a separate active antenna, unless the separate antenna can be placed in a significantly better location or it has a significantly longer or wider antenna portion.

HCJB's NEW 100KW TRANSMITTER

By Trisha Roberts

The holiday season will be bringing HCJB listeners a joyful new sound. According to Stan Houghton, chief transmitter operations engineer, a new 100 KW transmitter will be ready for use sometime before Christmas. The transmitter arrived at HCJB at Christmastime 1984, and since then the engineers have been assembling it as time and workload have permitted.

Stan Houghton, who has more than 15 years of experience working with transmitters, was delighted to explain some of its features. The Gates SW100 built by the Harris Corporation is a high level, plate-modulated 100 KW shortwave broadcast transmitter capable of operating on any frequency between 3.2 and 22 MHz (or 90-13 meters) at a continuous 100% sine wave modulation, covering 11 bands. It is HCJB's first vapor-cooled (as opposed to air or water-cooled) transmitter and is capable of delivering 100 KW to a balanced 300-ohm load impedance. The modulation system is known as pulse duration modulation (PDM). This makes the fifth different type of modulation system that is in use at the HCJB transmitter site.

It is HCJB's second most powerful transmitter, and will be used to send programs in English to the South Pacific on 49-meters, in all languages to Europe on 16-meters, and in Spanish to the Americas on 25-meters. It will also be used as a back-up for the 500 KW transmitter.

Stan himself operates a Sony 5900 receiver and is anxious to be one of the first to catch this new signal.



FEARLESS FORECAST: Reception Via The Long Path

Conclusion:

By John Stanley



The best time to listen for signals coming via the long path is about one hour before sunset and one hour after sunrise. The morning time is better from an interference standpoint, unless you live in a part of the world where interference is less in the evening.

Expect signals to be coming from the direction of the dark side of the globe, but since they will be coming more than half way around, the transmitters will actually be located in the daylighted hemisphere with you. By the way, if you haven't thought about the fact that almost exactly one half of the earth is having night and the other half is having day at any given time, you should think about that sometime.

You may be able to hear the same signal via the short path AND the long path at the same time. These are the easiest to identify since they have a strong echo. Beware of the fact that other things can cause echo, but if a station meets the conditions that normally lead to long path reception, and has an echo, it is pretty sure you are hearing both paths at the same time.

It is possible to be fooled and think you are hearing long path when the signal is actually coming short path. There are several clues that the signal is in fact on the long path.

1. Check the beam heading of the transmitter. If it is beaming to you via the short path, it is unlikely you are hearing long path. If you cannot find the information in the program schedule or the *World Radio TV Handbook*, write the station for beam heading of a particular release. The language may also give you a clue.

2. Does the long path lie over water and short path over land? This would help favor the long path.

3. Do ham radio operators in your area work into the area you are hearing via the long path at that time? They have directional antennas and are able to determine for sure from which way the signals are coming.

The meter bands to check are the 19- and 25-meter bands. Long path can occur on other bands, but these are prime hunting grounds. Most of my best long path has been on the 19-meter band or the 20-meter band, but at the bottom of the solar cycle, 25 meters should have long path also.

You may be able to hear the same signal via the short path AND the long path at the same time.

Specific times and places to look are as follows:

Location	Local time	Path to check
N. America	Sunrise & 1	South Asia via S. Pole
Europe	Sunrise & 1	Australia via Pacific
S Pacific	Sunset - 1	Europe from east
South Asia	Sunset - 1	N. Amer. from south
Equat. rgns.	Sunrise & 1	Other equat. areas
Japan	Sunrise & 1	S. Amer. via S. Africa

The last one mentioned is speculative on my part. The others are paths that are often heard. Can any Japanese ANDEX member confirm reception of HCJB's Japanese service north and south on 15295 kHz at 2200 UTC with an echo? This would be proof of a long path on this frequency. Japanese hams may be aware of other long paths that are heard in Japan.

The following are actual loggings in Quito, of signals that I am sure are coming via the long path: BBC London, 15070 kHz, 1245 UTC with strong echo; AIR Madras, on 15335 at 1206 UTC beaming in Tamil to SE Asia; FEBA sign on at 1229 UTC on 15325; Jiddah on 15345 at 1230 UTC beaming east; and BBC Singapore on 15310 at 1100 UTC.

I normally use this last one as an indication of the conditions on the long path over the Pacific. When it is good, I look for the others. Jiddah is my best DX at 27,080 kilometers if we count loggings where only the long path is audible. If we count loggings where both paths are audible, the BBC London is better.

What is the ultimate DX on the long path? Well, with sophisticated equipment it is possible to transmit a pulse and then hear it yourself coming ALL THE WAY around. It might be possible for a SWL-DXer inside the skip zone of a powerful station to hear the signal weakly via ground wave or back scatter and then, to hear a weak echo that has gone all the way round. Can anyone confirm such a logging?

It is time for this Fearless Forecaster to put away his pen for awhile here in the ANDEX bulletin. I have enjoyed immensely these contacts with you all. I hope to send in a special article from time to time. And, as always, I will be listening. Best DX!

SPECIAL DXERS



Marianne Houser

Our Special DXer from the U.S.A. is ANDEXer Marianne Houser, Box 33, Casanova, Virginia 22017. Sometimes Special DXer articles are most interesting when presented just as written by the member, as with Marianne's letter to us:

"Thanks so much for taking the mystery out of shortwave listening for me. The ANDEX report plus DX PARTYLINE have turned my listening from frustrating to fun!

I am a 32-year-old homemaker living on a farm near Washington, D.C. A ham operator for five years, AA4HA, I only began tuning in the SW bands this past year. My rig is a Drake TR7-A using a 120-foot dipole antenna with a balanced feedline. At first, shortwave listening appeared to be extremely confusing. Where could I find English language program schedules? What were reception reports? Who was SINPO? Which antennas work best for SW bands? Gradually the fog lifted and my questions were answered as I discovered shows like your DX PARTYLINE. Joining ANDEX helped too. I am member 5219. John Stanley's articles were particularly helpful in the ANDEX newsletter.

I listen to HCJB regularly, with PASSPORT as one of my favorite shows. (Yes, Jan Anderson, I am one of your "Cracker-barrel" fans!) I like your uncompromising way of presenting the gospel. Today, as He has been down through the centuries, Christ is the only salvation for mankind. Thank you for helping spread that great news. For as you know, we can all use some good news these days!"

Thank you, Marianne. We hope you receive many notes of congratulation for being featured as ANDEX Special DXer.

Markus Hilfiker has the honor not only of being chosen Special DXer, but of being the first ANDEX Special DXer from Switzerland. We have only four members in Switzerland. Now that HCJB has an office there which will handle ANDEX memberships, we are looking forward to welcoming many more Swiss listeners into the club.

Markus is ANDEX 4569 and his address is Markus Hilfiker, Schwendi, 8494 Bauma, Switzerland. Bauma is 26 kilometers east of Zurich and gets lots of snow in the winter.

Markus is 20 years old and has been a shortwave listener and Dxe since February 1979. He has trained as a plumber. He's the president of the Zurich area listener club called DX-Group-Switzerland. He is also interested in amateur radio and has the call letters HE9MYN. Other hobbies Markus enjoys are electronics, traveling and listening to music.

His equipment (left to right in the picture) includes a personal computer for a QSL card file, clock, filter, weather station, loudspeaker, Sommerkamp FRG 7700 receiver, Morse storage, antenna changer for 10 antennas with adapter, tape deck, Audion receiver 0-v-2 which he built himself, frequency calibrator and printer. He uses a Hustler 5BT antenna.

Markus says he really enjoys the ANDEX bulletin but wishes it could be in the German language. That's an idea we've considered, Markus, but so far we don't have the resources to do it.

We wish many more years of successful DXing to Markus Hilfiker and congratulate him on his selection as the first ANDEX Special DXer from Switzerland.

Markus Hilfiker



Pen Pals



SIMON HARNETT — 9 Leys Crescent, Remuera, Auckland 5, New Zealand - ANDEX 5389 - 15 years old - hobbies are playing soccer, shortwave radio, collecting QSL cards and stamps, and especially collecting matchboxes from all over the world - greatly interested in hearing from anyone who collects or wishes to start a collection of matchboxes.

BRUCE L. DeSHAZO — 1710 Whitman Road, Memphis, TN 38116 U.S.A. - ANDEX 4470 - 38 years old

- interests are SWL and corresponding by letter or tape - wants overseas pen pals, and will tapespond with people only in the U.S.A.

MRS. JOAN FICHAULT — RRI Hwy. 601, Dryden, Ontario, Canada P8N2Y4 - ANDEX 5283 - 55 years old - hobbies are shortwave, especially Christian stations, raising rabbits for meat and fur, collecting postcards and QSLs, corresponding, gardening, and hiking in the bush with her dogs.

GERRY SHERIDAN — 39 St. Gerard's Road, Greenhills, Dublin 12, Ireland - ANDEX 5267 - 27 years old - male - hobbies include stamp and postcard collecting, music of all types, reading, exchanging radio cassettes of local stations, and especially DXing.

LAWRENCE R. THOMPSON — 535 Mill Creek Road, Rocky Face, GA 30740 U.S.A. - ANDEX 5447 - wants to correspond with someone interested in DXing and who would like to exchange cultural ideas.

Beholding Wonderful Things

by Ben Cummings

God has created marvelous beauty in every part of His world. One of the most fantastic displays of His creative genius which I have ever seen was beneath the waters of the Caribbean. We were in Panama at the time, where I was manager of radio station HOXO. My children and I went snorkeling at a quiet reef near the Caribbean entrance to the Panama Canal. The two boys worked along the breakwater searching for lobsters. My seven-year-old daughter and I stayed over the shallow reef and leisurely floated along. Lying with our faces in the water, breathing through a snorkel, we looked with crystal clarity through our face masks at the wonderful world below.

The coral reef was alive. There were fish of iridescent blues, reds, blacks and yellows; spotted fish and striped fish; some graceful and seri-

ous, others zipping and darting and playing like clowns. A few dashed angrily at anything which came near their territory. We shied away from a moray eel panting nearby with his head out of his cavern. Then a lone yellow and blue triggerfish fluttered, butterfly-like, in his comical, seemingly uncoordinated manner over a purple cluster of pincushion sea urchins.

We finally surfaced and went to shore. I looked out over the water and thought, "Who would ever suspect that such beauty is there just a few feet beneath the quiet surface? What a loss it would be never to have looked on that glorious underwater world!"

As I have often relived that most memorable day, I think about a parallel truth. There is a marvelous book called the Bible which is filled with wondrous beauty and eternal truth.

What a loss it would be never to look into its treasures, never to get beneath the surface and see all that God has for us. In order to explore the underwater world, one needs at least a mask and breathing snorkel. We also need some equipment if we are going to see what is really under the surface of God's Word. One must have two things for seeing: a prayerful attitude, and a heart that really desires to know what God says. With these you can explore to greater depths than you ever thought possible.

I invite you to open the Bible and pray the short prayer recorded in Psalm 119:18: "Lord, open my eyes, that I may behold wonderful things from Thy Word."

Ben Cummings is executive vice president of World Radio Missionary Fellowship, Inc.

ANDEX International



is the official bi-monthly publication of Andes DXers International, a DX Club operated in conjunction with DX Party Line broadcast over Radio Station HCJB and sponsored by the World Radio Missionary Fellowship, Inc.



DX Party Line Host — John Beck

ANDEX Director - Doris Hastings

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ADDRESS MAIL (NO funds) to: ANDEX International, Casilla 691, Quito, Ecuador

Write for a list of ANDEX offices in other countries for your payment convenience.

Printed in Ecuador, S.A. by Imprenta Vozandes