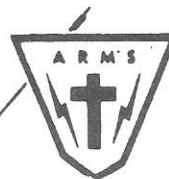


W3 B3AW



AMATEUR RADIO MISSIONARY SERVICE

6725 Colby Street, Lincoln, NE, U.S.A. 68505

Summer, 1985

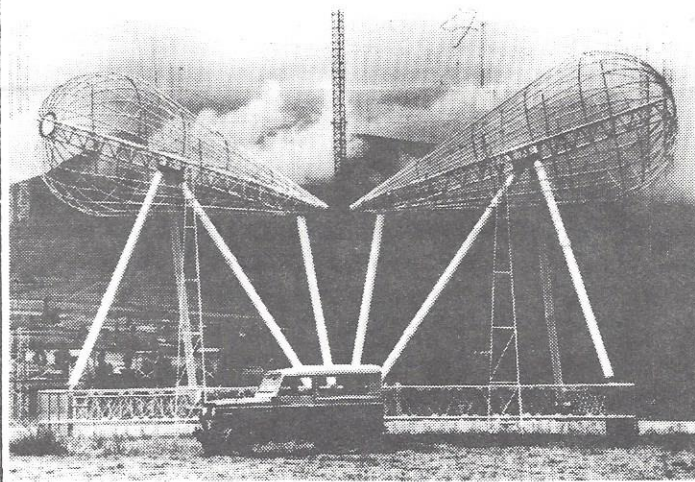
GETTING THE MESSAGE OUT

I am presently working in maintenance of studio facilities in Quito, where we have 10 control rooms for recording many of the 14 languages that we broadcast. But my work with HCJB began in 1975, when I joined the team in Elkhart, Indiana, that designed a 500,000-watt shortwave transmitter. For the past four years now, it has been operating from our transmitter site in Pifo, 12 miles southeast of Quito.

One of the privileges of working here is the involvement with the technically interesting equipment that the Lord has provided to be used in His service. And since usually hams are interested in equipment, I will describe some of it. The 500-kw unit is very interesting, except possibly at 2 o'clock in the morning. This transmitter uses a single tube in the power amplifier and two tubes of the same type in the modulator. The other two tubes are in the rf driver, for a total of 5 tubes; the rest is all solid state. There is no modulation transformer; instead, there are separate PA and modulator power supplies. The PA plate voltage is 15,000 volts. The two modulator tubes are operated in series, with a voltage of 38,000 volts across the two. The center connection—the cathode of the upper and the plate of the lower—are connected through an air-core inductor to the PA plate, thus accomplishing AM modulation without a transformer, resulting in better efficiency and response. The upper modulator is metered and controlled remotely through an optical fiber link. All metering is converted to digital form, and optical fibers are used for interlinking the various sections. In addition to the half-megawatt transmitter, on shortwave there are four at 100,000 watts, one at 50,000, three at 30,000 and two at 10,000 watts. In Quito, for local service, there is a 50,000-watt AM transmitter and a 5,000-watt FM stereo transmitter.

The antenna field at Pifo is a ham's dream. There are about 35 antennas. Most are curtain arrays, though one quad is in service on 13 meters. It is a 2 x 2 stacked array with 6 elements on each bay, for a total of 24. Gain is about 23 db. The most unusual antenna is the steerable. It is certainly the largest; the central tower is 417 feet high, and between this and a semicircle of 100 foot towers is suspended a parabolic reflector screen with a radius of about 279 feet. Within this radius a "skewed bi-conical" radiator

travels on a movable platform powered by a 10 hp motor through a nonconductive cable system. Inside the concrete track carrying the radiator there is a 30 foot high reflector fence to focus the power in the parabolic screen. By moving the radiator on its track, the beam can be steered over an azimuth of about 120 degrees. It is broadband and has a gain ranging from about 20db on 49 meters to about 24db on 16 meters. If you think it would be nice on the ham bands, we will have to agree, as several times that has been done during periods when it was not in broadcast use. John, HC1JX, says it is especially good on 40 meters. His little Atlas 210 really gets out. The danger is that antennas work both directions, and there is a lot of power being radiated not too far away.



Driven element of the steerable antenna, HCJB, Quito, Ecuador. 23dB and 500 KW.

The newest antenna system is being built for 49 meters for service into northern Europe and the South Pacific during the sunspot low. It is suspended between four 360-foot towers, with a reflector screen in the center and an array of radiators on each side, for its bidirectional capability. It is 355 feet wide, for an almost square appearance. Gain is about 22 db.

Power is supplied by our hydroelectric plant at Papalacta, located on the eastern slopes of the Andes. Total plant capacity is 6 megawatts. A problem occurred recently when several kilometers of power line were taken down by an ice storm, a hazard even here on the equator—especially

THE BEAM

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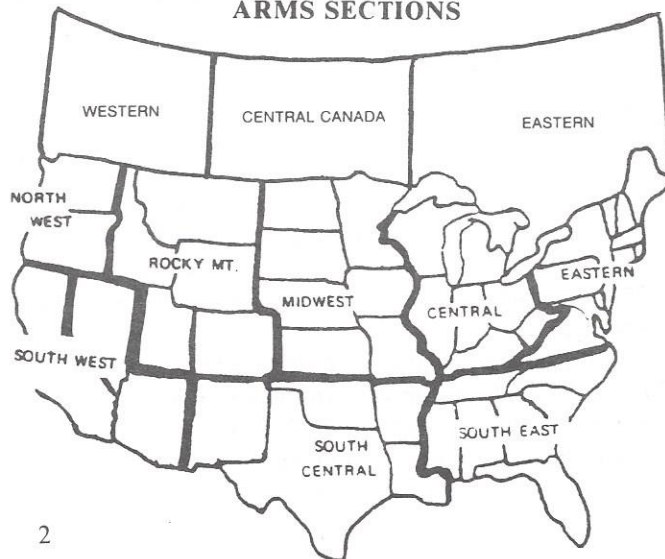
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Northwest Albert Cherry, NA7L
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South Central George Jackamonis, K3JRD
Southeast Harry Campbell, WB4AHT
Southwest Gene Paxton, WB7CLD
Central Canada Gordon Pearce, VE5HP

ARMS Nets

Eastern	M, W, F	7:00 a.m.	3.907
Central	Sat.	8:00 a.m.	3.922
Midwest	Sat.	8:30 a.m.	3.907
Northwest	Thu.	7:00 a.m.	3.984
Rocky Mountain	Sat.	8:00 a.m.	3.907
South Central	---	---	---
Southeast	---	---	---
Southwest	Tues.	10:00 a.m.	7.297
Central Canada	Sun.	2200Z	7.060
Transcontinental	M-Sat.	1545Z ST	14.3075
		1445Z DT	14.3075
Halo	Daily	1800Z	21.390

ARMS SECTIONS



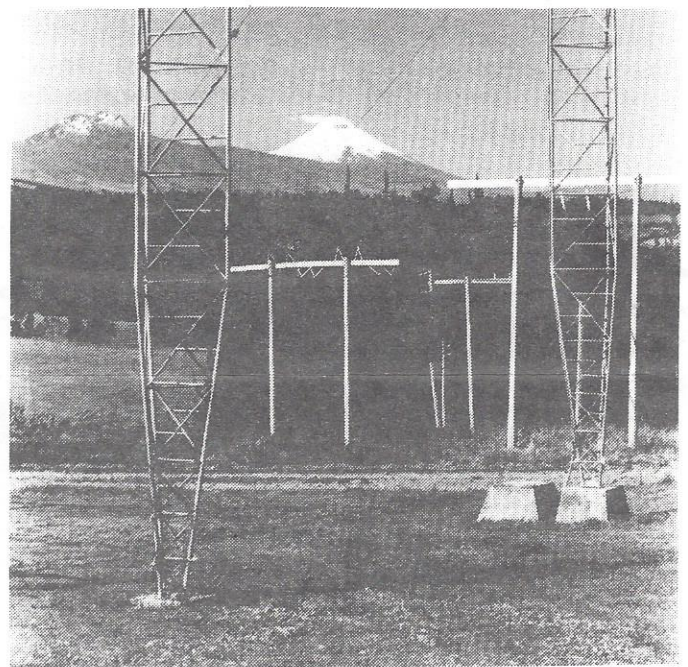
THE ARMS MOTTO

"... let us do good unto all men, especially unto them who are of the household of faith."

Galatians 6:10

at an elevation of 14,000 feet, where the power line crosses over to Pifo. During times like that we are able to draw power from our diesel generators and the national power system. Through our interconnection we are also able to feed excess power into the national grid and receive credit for it.

Within Ecuador we are seeking to extend out from Quito and Guayaquil through the use of a microwave relay system. One link already serves the coastal city of Esmeraldas.



Mt. Cotopaxi as seen from Pifo.

Letters come in from all over the world telling of changed lives. An isolated Christian family in Russia, a Buddhist priest in Japan hearing for the first time the name of Jesus, and even a young SWL in North America listening on the receiver he got for Christmas. God gave us the commission to preach the Gospel in the entire earth, and as always He gave us the tools to do it, if we will.

I believe the greatest frustration is that with all the opportunities available, there is still a lack of hands. Not only here but also, for instance, at HOXO in Panama (without a resident engineer) and at the new stations in Texas, along the Mexican border. More construction permits have been issued, and technicians are needed to build and operate the stations. I wonder if young people are still thinking as I did years ago. I was about 12 when the Lord

spoke to me about serving Him as a missionary. I was willing but very puzzled about how and where I could fit in. My father was a pastor, and missionaries were regular visitors to our house. I thought that I had a pretty good idea about what missionary service was all about. But all of the missionaries that I had met worked in the categories of preaching or teaching or as medical workers, and it didn't seem that I fitted into any of those categories. I did a lot of praying about it, and one day the Lord answered through a book written by Clarence Jones, a cofounder of HCJB, entitled "Radio—the New Missionary." This was my introduction to the use of technology on the mission field. In the years since then I have seen just about every technical talent imaginable put to fruitful use in missionary service. The technical side of radio broadcasting was the answer I had been looking for.

Preparation was at John Brown University and Moody Bible Institute. It was in 1954, at MBI in the Missionary Tech course, that I first received help from an ARMS member. Well, actually, he was going to be a member when it was organized. We had a net called MAN, Missionary Amateur Net, and we also had a problem. We were operating from the middle of Chicago, with a neon sign that flashed the letters "WMBI" on the outside of the wall of the hamshack, and we were using AM as, of course, was almost everybody else. It is tough to run a net under those circumstances. That was where Harry, W9KWJ, stepped in. When the QRM got too high, Harry was our relay to the outside world. Like so many ARMS members, he helped us "budding missionaries" get prepared for missionary service, and some years later the Lord made it possible for him to go himself.



Control room at HCJB, Quito, Ecuador.

Our path lead first to Liberia and Radio Station ELWA. We were there from 1960 until 1969. Three times a week for most of that period we met Jack, K2AXO, to pass traffic to the mission office in New York City. Also during that time George, W0CQY/W0JH, took traffic into the midwest. I just want to say, with examples, that through the years ARMS has not been just a social organization, its members have served and continue to serve in vital roles in missionary work. Let's stay away from that "them and us" mentality, with the missionaries being the "thems." We are all "us." God can use each one of us in His service, if we are willing. If you are acquainted with young people with technical ability, make sure that they know about the opportunities of service. Also, the idea that you have to be young to become a missionary has been put to rest. There is nothing like experience when it comes to solving hard problems.

Orbra Bliss, HC1BW

USING THE RESOURCES

Christian Amateur Radio Operators are both biblically oriented and technically oriented. As such, we are (or ought to be) more aware than the average believer that God has given us some remarkable tools to use in telling others of His provision for their salvation and spiritual growth. Several recent experiences served as reminders of this fact.

A few Sundays ago, Dr. Abe C. Van Der Puy, long-time president of World Radio Missionary Fellowship, operator of HCJB, Quito, Ecuador, and other Christian broadcasting stations, was a guest speaker during a missionary conference at the church I attend. He pointed out the fact that radio is personal (it speaks directly to **you**), pervasive (it can be heard everywhere on planet Earth), penetrating (it reaches behind the iron and bamboo curtains and into prison cells, bedrooms and automobiles), persistent (it keeps right on giving the message day after day, year after year), and powerful (churches exist today that were started by people whose only contact with the Gospel was through radio). The same ionosphere that refracts your 20-meter signal across the Atlantic enables a missionary broadcaster to reach a target audience across the Pacific. ARMS is proud to include many members who are committed to sharing God's Good News through program production and through broadcasting. Christian radio—a vital tool for getting the Word out.

A recent visitor to the General Aviation section of the Lincoln (NE) Municipal Airport was the most beautiful little twin-engine aircraft you can imagine, handcrafted with painstaking skill, infinite patience, godly love and thorough documentation by Carl Mortensen and the fine crew of King's Engineering Fellowship, of Orange City, IA. Gleaming with a brand-new coat of paint (one of a number of God's miracle provisions for this project), the "Angel" was on its way to be inspected by Cessna engineers in Wichita, KS, and to be part of the Mission Aviation Fellowship conference in Longview, TX. This push-prop air-

craft with a big tail can take off and land in little more than the length of a Boeing 747; it is designed for safety and utility in the air and for operations on tiny jungle airstrips. FAA testing and certification are planned for the months just ahead; your prayers for the successful completion of this project will be appreciated. Missionary aviation—a vital tool for getting the Word out.

Around the world hundreds of linguists are translating the Word of God into the languages of people who have never read a Bible, and increasingly they are using computers to save countless hours of work and to provide a better product. The words you are reading now were typeset on a highly specialized microcomputer. And much of the radio equipment we enjoy and use for fellowship and for handling missionary traffic makes use of computer technology in one way or another. Mailing lists, accounting functions, word processing and a host of other applications all enable churches and Christian organizations to be better stewards of the finances entrusted to them. The computer—a vital tool for getting the Word out.

All of these tools and more are resources unique to our time, enabling this generation as none before to quickly and efficiently propagate the Gospel and the knowledge of God's Word. Why not take a moment to thank God for these special provisions, of which we may be so aware that we take them for granted. And then ask Him to show you new ways you can use the tools at your personal disposal to glorify Him.

Bob Mitchell, WBØRJJ

SECTION NEWS EASTERN SECTION

Jack Buck, K2AXO, just sent me your letter, and here is some news from the Northeast Section.

The 7:00 a.m. ARMS net on Mondays, Wednesdays, and Fridays is the high point of the day for me—just a great bunch of friendly, helpful Christian brothers! Net control on Mondays is Bob Kurtz, WA2CYO. Bob Zecher, K2YIK, takes the net on Wednesdays, and Will Hutchinson, WA2OJN, takes over on Fridays. Don Birx, K3RYV (one of the old-time ARMS members), handles the 9:00 a.m. net on Saturdays and does a terrific job. Al Smith, K2CAC, Jack Buck, K2AXO, and Gordon Bradbury, K2KXY, keep regular schedules with Dave Schult, EL2FS, in Monrovia, Liberia. These men run many patches and handle a great variety of messages.

Bob Kurtz, WA2CYO, has had regular schedules with Ron Pickett, PT7ZAE, in Fortaleza, Brazil. Ron is currently on furlough and operates as KB3UG (mostly mobile). Ron appreciated the prayers of many of the ARMS members last summer when his son, Steve, lost his leg in a freak accident. At one time Steve had less than a 50% chance of survival; but God spared him and made him a blessing to those in the hospital who witnessed his strong love for God and his trust in Him.

George Jackamonis, K3JRD, our former Northeast Section Director, traded his snow shovel for a place in the sun, and he now resides in Texas. One of these days we may hear him on the Transcontinental Net.

During the last year, the morning nets have grown; and they now average eight to ten check-ins. Some of the newer check-ins are Ron, KB3UG; Bonnie, KA3FGD; Ray, W8RJZ; and Steve, WA2EHW. The old faithfuls are Jack, K2AXO; Brad, K2KXY; Duane, KA2GCL; Al, K2CAC; John, WB2SQX; Ozzie, VE3CNI; Will, WA2OJN; Jerry, K4RBZ; Don, WB6VXV; Harold, K1GUR; Bob, W2IYK; Phil, K2IUT; Don, WA2QNN; Bill, WB1DQT; Roger, W3PWH; and Don, WA3CMT/8.

We are really looking forward to a great year in '85.

Bob Kurtz, WA2CYO

CENTRAL SECTION

We in the Central Section are happy to report that interest is at an all-time high. Our Saturday morning net continues to be active, and communication has been surprisingly good considering the recent times of poor propagation. Several new members have recently joined ARMS, having been attracted by the Christ-centered content of our conversations. While we cannot "broadcast" the Gospel, we pray that God will bless and honor this witness on the various ARMS nets.

We have about 20 stations on the roster of the Central Section, with a record of 14 check-ins for one morning. Most of this growth has been brought about as people tune across the band and find our net. This confirms the fact that even a low-key approach using the Word of God on the nets is an effective witness.

Our second annual get together was held at Wheaton College on October 20. Bruce, KAØDSF, made arrange-



Second Annual Meeting—Central Section

Standing: Left to right: Paul Smith, N9ESL; Don Grattelo, KA9BQX; Wayne Leach, N9DZT; Keith Sharp, KA8JVZ; Dick Steensma, N8FRQ; Dick Beeby, WB9YJR; Dave Hall, W9AOK; Alan Addy, (No call) Dan Musick, Ex WB4GAD. Seated: Hiram LePard, KN8JDN; Eric Frank, W9OVY; Bruce Dillingham, KAØDSF.

ments for the private room and an excellent lunch. Members from as far away as Grand Rapids, MI, and central Indiana were in attendance. Many wives and other family members attended, along with a number of interested guests, bringing the total attendance up to 21.

Our guest of honor was Shao-fen Ai, a young lady who would be rated as a doctor in mainland China, where she and her family suffered much during the cultural revolution. She came to know the Lord two years ago in a Bible study for international students conducted by Dick Steensma, N8FRQ. On one of our Saturday morning nets, Dick presented her need for housing in a western Chicago suburb for the fall college season. By Monday morning, Bruce Dillingham, KA0DSF, had made housing arrangements with Mrs. Cindy Leeper, a fine Christian lady whose daughter had just left for college. This is an example of Galatians 6:10 at work as ARMS proved to be an agent in God's plan for bringing them together **exactly** at the right time for both.

One of the high points of our gathering was a sharing time. Our sharing had a definite spiritual emphasis, so everyone, including non-hams, participated, and all were uplifted while learning to know one another better. We also read letters from some who were unable to be with us. We were very happy to hear from them, and we would be most pleased if more Central Section members would drop us a line.

It was agreed that we will meet again in Wheaton in October, 1985.

Eric Frank, W9OVY

MIDWEST SECTION

The 1984 annual Midwest Section picnic and meeting was held August 18th on the campus of Northwestern College, in St. Paul, MN, with about 40 people in attendance. Cohosts for the event were Don, K0OAV, and Barbara Berggren, and Dan, WA0LUV, and Liana Nordell, who carefully and graciously organized our day and provided for a wonderful time of fellowship.

There were three excellent presentations. Roger Stubbe, HC1RT, reported on his activities with Radio Station HCJB in Ecuador. Dean Nordell, WB0HJG, who had recently returned from assignments in Africa and Japan, brought an interesting report on those areas. Bill Berntsen, N0CYO, reported on the amateur radio station that has been installed at Northwestern College to provide training in amateur radio for interested students. Mike Eagen, N5GNB, also a member of ARMS, is working with a group of students, and we will be looking for some progress reports in the future. It is hoped that many of the students will become ham operators when they see how radio communication will help on the mission fields. There was also a progress report on the construction of the "Angel," an airplane designed and built by the King's Engineering Fellowship especially for use on short airstrips in missionary work. The engine mountings and cowlings have been modi-

fied after wind-tunnel tests to provide more efficient performance.

We had a great time at St. Paul and are looking forward to meeting many fellow ARMS members at the National convention in Regina.

Frank Brodale, AG0M

SOUTH CENTRAL SECTION

Pat and I have moved to a mobile home park located approximately 5 miles south of the City of Laredo, TX, and in a location that I think is better for radio transmitting. Praise the Lord we appear to be where He wants us to be.

We hope to set up a complete radio station here, both amateur and broadcasting; and if we ever get reciprocating privileges, a network could be set up that would help missionaries serving south of the border.

We are looking forward to a long period of service here, and we hope to start a net on 40 meters for the South Central Section so that those ministering in Mexico can at least listen until such time as they are allowed radio privileges.

If any of you have receivers or even coils that could be used to make up converters and BFOs, I would appreciate receiving them. Radio coils are just not available here. (Tapped coils for Hartley oscillators—transistorized or whatever is available.)

We will be looking forward to increased activity in the South Central Section. Brethren, my heart's desire and prayer to God for Mexico is that they might be saved (Romans 10:1).

George Jackamonis, K3JRD/5

FROM THE MAILBAG

Greetings from Kyome, where we have been working for the past year. It wasn't until moving day that it occurred to us that you have not received our new address, only one year late. Sometimes it's embarrassing when you clean out your closet, isn't it?

Just to give you a little background, Danyce and I came out to Kenya in early 1980 to teach in a secondary school for African boys at Kyome, with the African Inland Mission. We taught there for the next 3 years, and during our furlough I received my amateur license in March, 1983. The following year was very enjoyable, getting to know you folks, especially Gene Paxton, WB7CLD. In fact, both Gene and his dear wife came by our QTH in Paso Robles, CA, for a short but nice visit.

Our next term of service started in March, 1984, and we taught at Kyome for that school year. The school is sponsored by the Africa Inland Church; and while we teach these young men to be able to compete academically, it is our prime desire that they come to know our Lord and Saviour Jesus Christ.

Now we are being assigned to work in Nairobi with A.I.M. Air, the aviation organization that supports other

missionaries. We'll miss working out in the bush, but we anticipate some great opportunities to work with university students and young working people.

In closing, we would like to wish each and all a fruitful year of serving the Lord and sharing our faith with a lost world. We are finding that the best way to stay on track is

to keep our eyes off of the world and on Jesus Christ.

May you find joy and contentment in Him!

Jim Gustafson, 5Z4JD

Ed. Note: Jim's schedule is listed under Missionary Schedules and Contacts.

MISSIONARY SCHEDULES AND CONTACTS

The Schedules are arranged in the order of the time of day. All times are Zulu, and frequencies are in MHz.

Time	Day	Call Sign	Home Contact	Frequency	Notes
0000	Sat.	YBØABK VK4OK VK4AAJ	ZL1UE	21.385	MARF Net
0730	Thu.	ZL2AYA ZL1UD	ZL1UE	3.690	ARMS
0830	Tue.	G4KXL/DU KHØAF VK4YF VK4AGB WB6TUF P29AX	ZL1UE	14.275	
0900	Mon.	P29NGG VKs ZLs	ZL1UE	3.565	CRMF Net
1300	Sat.	EL8C	KA8CMR	21.440	
1330	Sat.	5Z4DL	W7SDS	7.240	1 hr. earlier during DST. WGMARF Net
1430	Sat.	HK3NAG	KA8CMR	21.428	
1800	Sat.	5Z4LH	KA8CMR	21.440	
	Sat.	5Z4DL	W7SDS	21.370	1 hr. earlier during DST. WGMARF Net
1800	Wed.	TG8WI	WB6LOF/4	21.390*	Alternate Wks.
1800	Daily	5Z4JD	N6JTW	14.311	Except Sun.
1930	M.W.F.	OA4BDV	WA4KLQ	21.320	
1945	Sun.	TU2GC	KA8CMR	21.400	
2000	Sun.	EL2ED EL2AP EL8C EL2CQ	KA8CMR	14.313	
2030	Sun.	OA4YS/VE5DD	VE4ID	21.195	2nd Sun.
	Mon.	HH5MV	VE4ID	14.140	2nd Sun.
2100	Sat.	P29NGG	ZL1UE	21.150	CRMF Net
2130	Sun.	HC1RT	KØGAZ	21.390*	
	Mon.	K7ZX/TI2	W7CVL	14.300	
2200	Various	HH6KS	VE5HP	14.313	
	Fri.	AH2AV	KA8CMR	21.400	
	Sun.	VE5HP	VE5HP	7.060	ARMS Net

*Calling frequency. Contacts are made on 21.390 MHz and the stations move to another frequency for QSO. The Halo Net meets on this frequency daily at 1800Z, followed by the Post Halo Net at 1900Z and by the Inter-America Traffic Net at 2000Z.

It will be noted that there are some items of information missing from these schedules. If any of our readers can supply the missing items, or any additional schedules, contact our ARMS Vice-President, Gordon C. Pearce, VE5HP, 124 Mikkelson Drive, Regina, Sask. Canada S4T 6R5. Gordon will be glad to hear from you.

Greetings from Costa Rica. Thank you for the last edition of the BEAM. I enjoy reading about the other ARMS members, especially about the missionaries I hear on the air but do not know personally.

We have an interesting situation here in Costa Rica. There are two missionary families living out in the Talamanca Valley, which is on the eastern side of the country, on the Caribbean side of the mountains. Ray Schlabach, TI6RS/K8YQX, is a Mennonite who is working independently as a translator, and Paul Williams, KA7JF/TI6, is with Wycliffe. They live 10 miles apart.

There is no telephone, power, or mail service to that part of the country, so their only communication with San José is by ham radio. We use 40 meters, as 2 meters has not proven very successful—even with excellent repeaters. They are just too far around the edge of the mountains there. Both Ray and Paul use modern solid-state rigs, which they run with 12-volt batteries. They both have light plants, but they seldom use them. Ray uses his primarily for his SB-200 when the going gets rough on 15 meters. The batteries are charged by solar panels on the roofs of their houses.

Thank you for reading along with me. Perhaps we will run across you on the air more often after I get my quad up.

Greg Combs, K7ZX/TI2

Ed. Note: For Greg's schedule, see Missionary Schedules and Contacts.

ARMS member John Holland, WB6LOF/4, received the following letter from Laurie A. McLeod, Chairman of Horry County Council, relative to the activities of amateur radio operators during the encounter with Hurricane Diana last September. John has graciously shared the letter with us.

Dear Mr. Holland:

As chairman of Horry County Council, I would like to thank you for your efforts in coordinating amateur radio operations and providing an outstanding communications service to this county during our recent bout with Hurricane Diana.

Radio amateur operations were stationed at all municipal EOCs and the County EOC as well as at all shelters within the county. The message handling from shelters to Red Cross and other agencies was exceptional. I cannot name all the amateurs or their call signs or I would thank each one of them personally. Please relay this to them via your network.

It is comforting, as a leader of a governmental body, to know that your organization stands ready to assist in time of need. Also, that they do so out of a desire to serve their fellowman rather than financial reward.

Sincerely,
Laurie A. McLeod

John lives at Garden City, SC, and is District Emergency Coordinator for ARES District No. 7, covering Horry and Georgetown Counties in his state.

My wife, Carol, NØBBE, and I spent five weeks in Haiti with Christian Fellowship Outreach. While we were there, we worked with Else Ebbestad and Lorraine Hanson. These missionaries are working with several groups engaged in the building of schools and churches, and they are also involved in feeding programs and in the providing of medical care for the people. Carol worked at painting rooms and furniture, wrapping Christmas gifts, coloring books, etc., for Sunday School classes, and she helped me as I did general repair work.

We stayed three weeks at Port-au-Prince, on the main island, and two weeks on La Gonave island. While we were on La Gonave, we lived on the West Indies Self Help compound at Anse-a-Gulets. The W.I.S.H. organization is directed by Tony Wolf and provides assistance on many different projects.

Haiti is a very beautiful country with many beautiful people. These people were friendly to us, and we loved them. Although we could not speak their language, we could feel their love for God and were blessed by their preaching and singing. Many have accepted Jesus as their Saviour, and several new out-stations have been established.

God has richly blessed us for working in Haiti for a short time.

Ed Lee, KØEL

NEWS AND COMMENT

Our ARMS International Convention to be held in Regina, SK is certain to be a happy occasion. The dates are June 27-30, and it is hoped that your registration is already on file with Gordon, VE5HP. In addition to a wonderful time of fellowship and sharing, you will have an opportunity to travel with friends by motor caravan on a guided tour through some of the most scenic areas of western Canada in communication by 2-meter radio and with a very personable and congenial guide.

The new ARMS membership certificates are available, and a few have been distributed. The new certificate is similar to the one previously used—8½ x 11 inches in size and suitable for framing. One of these on the wall will enhance the decor of any hamshack. The point of distribution has been changed, and orders should be sent to the ARMS Secretary at the address given in the inside front page of your BEAM. You will need to send a dollar, and be sure to provide the date on which you became an ARMS member, as this date will be on your certificate. If you are unsure of the date, use your best estimate.

You have noticed from the ballot for this year's election that our officers will serve for periods of three years concurrent with the time between National Conventions. This will eliminate the need for elections during non-convention years.

Many of you have seen and read the little tract "Your Best Contact," written by Dr. William A. Mierop, K2JEI. It is a great item to enclose with your QSL cards or any

other mail that you may be sending to a ham. The tract has been attractively reprinted on colored paper, and you can order a supply from Source of Light Ministries International, Inc., Madison, GA 30650. The cost is reasonable.

SILENT KEYS

Rev. John L. Emary, HC1CN, died October 28 in Quito, Ecuador, due to a heart attack. He was 61 years old. John and his wife, Marsha, were in the ministry of educating the children of missionary parents. They were first appointed to the school for missionaries' children in Mamou, Guinea, where John served as principal. When that school closed, they were reassigned to the Alliance Academy in Quito. There John taught and was assistant director, and his ministry was both fruitful and rewarding. John's ministry was not limited to the classroom. On many weekends he could be found preaching in national churches, and his ministry of prayer was well known. On almost any afternoon, John was to be found on the Halo Net assisting missionaries and others in communicating with families at home in the United States as well as in various countries of South America. He is greatly missed by all who knew him, but we are comforted by the knowledge that he has answered the summons to a higher calling.

Norville Sample, KØIYC, went home to be with the Lord on November 6 at the age of 80. We will miss hearing him on the ARMS nets from Loveland, CO. Because of Norv's illness, he and Vonda had moved to Denver so that they could be close to their family and friends. Vonda still lives in their Denver home, and any ARMS members are invited to stop by for a visit.

Charlie, K7AQ, mentioned that he first met Norv on six meters back in 1958 while living in the Denver area. A few years later, Norv became an ARMS member, and we all have enjoyed fellowship with him over the years.

Charlie also reported an incident that will be of interest here. Norv checked into the net from Mexico one morn-

ing and learned that Walt, WA7MKH, was coming that way. Norv asked Walt to bring some peanut butter along, as they had been unable to find it in Mexico. This was done, and Walt became known as the peanut-butter smuggler. Charlie and Emily enjoyed having Norv and Vonda stop by their place with the trailer to spend a couple of days.

Mrs. Myrtle Eklund, the wife of Al, WØBBO, went to be with her Lord on March 16. While she wasn't an amateur operator and did not check into the nets, we are all saddened by her passing and wish to extend our sympathy to her husband, Al.

As we read this column we are reminded of the words of Paul the Apostle written in II Corinthians 5:1: "For we know that if our earthly house of this tabernacle were dissolved, we have a building of God, an house not made with hands, eternal in the heavens."

FREE INFORMATION

TELE-HAM is a ministry that provides phone calls for foreign missionaries free of charge. The purpose is to allow missionaries to contact family and friends in locations where there is little or no ham radio activity without cost to the missionaries or their families.

If you would like to know how you can help missionaries on the field without cost to you or to the missionary, send a business-size s.a.s.e. to Guy Speck, WA4HWQ, 6708 Valley Park Drive, Memphis, TN 38115. A prompt reply is promised.

TAKE NOTE

This may be your last issue of the BEAM if you are one who has not made contact with the BEAM Treasurer during the past three years.

Please be sure that you are updated and will continue to be a member in good standing. We do not want to lose you—we need your fellowship—so please get in contact with the ARMS Treasurer today!

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