

# The BEAM

Amateur Radio  
Missionary Service



Ray Rising is alive and well. See page 2.

Volume 39, Number 2

Fall, 1995

Meet your officers...

## Editor of The BEAM Dave Shortess, W5PQL

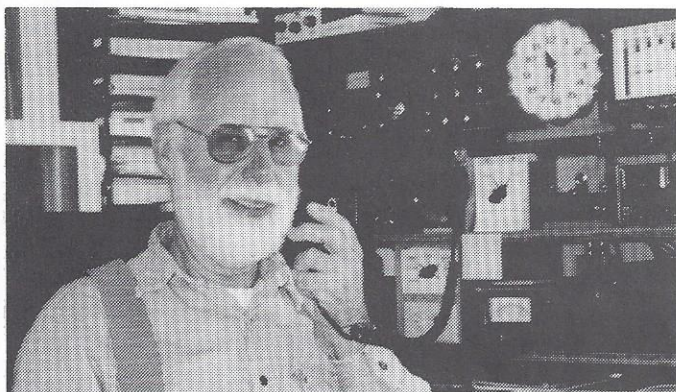
It was the summer of 1943 and I was about to turn 13. I was on my way over to visit Russ, a boy my age who lived about a block from us in Elizabethtown, Pennsylvania. He wanted me to look at some "radio stuff" he was working on.

He showed me a wooden board with various gadgets attached to it. It had wooden thread spools with bell wire wrapped on them, held to the board by nails through the center holes. There were other dodads with wires sticking out. At several points wires from these components were wrapped around wood screws fastened into the board. It looked pretty complicated.

"I'm building a radio," he said. "It isn't finished yet. I'm having trouble getting some of the parts. But when it's done, I will be able to talk to other people with it."

I was impressed. But then Russ was pretty smart. He could do things like that.

*Continued on page 8 — W5PQL*



Dave Shortess, W5PQL

## ARMS Gospel Tract

An ARMS version of Doc Mierop's tract, "Your Best Contact," is now available for distribution to any ARMS member—

In 1958, William J. "Doc" Mierop and three other hams founded the Amateur Radio Missionary Service. Doc was selected to be the group's first president. Doc was a very active ham and felt strongly that amateur radio should be used to further the spread of the Gospel.

At that time the only means by which a lot of overseas missionaries could quickly get in touch with their friends and loved ones back home was by amateur radio. Many regular schedules were set up by ARMS members with missionaries for just that purpose.

Today that continues, but on a much reduced scale, since satellite telephone service, including fax and e-mail, have replaced radio as a reliable means of rapid

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# THE BEAM

Published by the

AMATEUR RADIO MISSIONARY SERVICE

95 Prawn Road, Port Angeles, WA 98363

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## ARMS CHRISTIAN FELLOWSHIP NETS

Eastern... Mon.-Thurs., 7:00 a.m., Sat., 9:00 a.m..... 3.907  
Central..... Sat., 8:00 a.m..... 3.922  
Southeast..... Sat., 9:00 a.m..... 3.900  
Midwest..... Sat., 8:30 a.m..... 3.905  
Rocky Mountain..... Mon.-Sat., 7:30 a.m..... 3.893  
Northwest..... Thurs., 7:00 a.m..... 3.984  
20-Meter..... Mon.-Sat. 1545 z(st), 1454 z(dt)  
(10:45 East., 9:45 Ctr., 8:45 Mtn., 7:45 Pac.).. 14.3075  
Halo Net..... Every day, 1800 z.... 21.390  
Missionary Calling Frequency..... 21.390

## ARMS SECTIONS



## ARMS Motto

Let us do good unto all men, especially unto them  
who are of the household of faith. Galatians 6:10

## Guest Editorial...

Half of the name of our organization and all of the purpose is in the two words "MISSIONARY SERVICE," and Mark 10:45 is Christ's example for all of us. With that in mind, we have been privileged to observe, and in some small way participate in, the excellent work of some fine missionary movements. Our eleven years of "retirement" have given us the privilege to see the commitment and dedication of many of God's special servants. Our conclusion: missionaries and mission organizations need all the help God's people can give them.

We give our money, of course, but what about our time and abilities? The need for helpers, those of us who have enough retirement to support ourselves, is tremendous. Builders, electricians, cooks, houseparents, technicians, plumbers, ditch diggers, auto mechanics, heavy equipment operators, secretaries, and more are all needed.

Right now, here in Glennallen, there is the need for a bookkeeper, a secretary-receptionist and a college business manager so people can go on furlough to raise their support. Also, there is an urgent need for an auto mechanic because a Canadian could not get his visa renewed to work in the U.S., even though his support is all Canadian.

Most of us take trips for our enjoyment. Mission volunteering usually costs less than our vacation travels and the work we contribute takes nothing out of the tight budget of a mission or missionary. More important, *it frees them to do the work for which they are especially trained.* It's not efficient for a trained church planter or Bible translator to be off his assignment in order to keep the books, repair his car or house, cook for work teams, or lay utility lines. Many of us could be doing these things for them. The rewards for helping out are beyond description. More should be involved.

— Russ Karsjens, WAØNPH

(Russ is from Marshalltown, Iowa, but serves with SEND of Alaska, P.O. Box 369, Glennallen, AK 99588.)

## Ray Rising Update

In March, 1994, Ray Rising, KØLWJ, a missionary with Wycliffe Bible Translators in Colombia, was kidnapped and is held by rebels. No contact was made with the authorities by Ray's captors, and there was no obvious reason why he was being held. No ransom has been asked and no demands have been made.

Within the next six months, two letters were received from Ray indicating that he was all right. Then there was nothing for nine agonizing months.

However, this July there was renewed hope as explained in the following news release, forwarded to us by Dave Immel, KE4EW, in Waxhaw, North Carolina:

Summer Institute of Linguistics, Colombia  
July 12, 1995

"...we have found new reason to be encouraged about Ray's situation. Earlier this week, the CMC (Crisis

*Continued on page 16 — Ray Rising*



# Missionary Reports

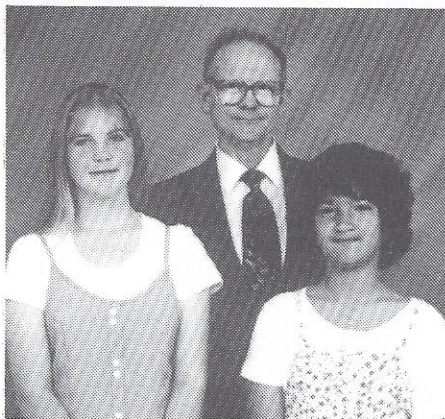
## Leon Winter, WX6I, (Philippines)

We have arrived safely at the SIL Center at Bagabag. It's good to be back in the Philippines for the fourth time. For 19 years, the Lord has given us the privilege to be part of the Bible translation team.

On arriving in Manila, we began to work on official things required of foreigners planning a long stay. Also, Sheri, Kristy and I spent two weeks packing up our household items that were in our Manila apartment. Lola and I had not packed these on leaving for furlough in 1992. We were planning to bring our family back to the same place. Other SIL friends have been sub-letting our place for the last three years. That meant our things were in good hands. This was not an easy task for us as there were many fresh memories of Lola. There were many reminders of her lovely life and, though it hurt, we found blessing.

Many of you were praying about our finding a suitable vehicle to travel over the mountains between Bagabag and Manila. One of our SIL members has gone home for an extended time and had put their truck up for sale. The gifts that were given to Lola's memorial and other gifts since have made it possible to pay 80% of the price. Our co-worker has agreed to wait on the Lord with us for the remaining 20% in gifts to come.

Several people, who know more about trucks than I, have examined the truck and advised me it's the right one for our needs. Everything about the truck gives us peace that we've followed His will. We are confident God will supply the rest of the funds. We drove the truck,



The Winters: Sheri, Leon and Kristy

fully loaded, the eight hours to Bagabag and had no trouble making it through the mountains. It feels so good to be back at a linguistic center using our skills to further the work of Bible translation.

On our second Sunday here we had a special treat. Doming Lucasi brought the morning message. He is a Balango. They received the New Testament 13 years ago in 1982. Pastor Doming shared that Bible translation has given new life to his people. Before the Scriptures came, the Balango lived in constant fear of evil spirits. They always had to sacrifice chickens for everything that hap-

pened. The coming of the Word of God is freeing the Balango from fear. Doming told us about the 106 Bible Churches that now exist throughout the mountains he calls home. How thrilling it was to hear this from the very lips of one who came to know Jesus because of the translated Scriptures! He encouraged us never to give up sharing God's Word.

Pray for Sheri and Kristy and the Center school. Pray for me as I establish a strong family environment for Sheri and Kristy. It's a real challenge being a single parent for I need to be other places much of the day. Praise for how the girls are adapting to the heat and the culture. Pray that God will raise up the remaining 20% payment for the truck. Pray for me as I use my electronic, radio and computer skills in the work. I've been away from it for three years. Pray, pray, pray for Ray Rising's release. He is still held captive in Colombia. Some from New Tribes Mission are also being held. Sadly, two of the NTM men were killed in a surprise raid. This is a very delicate situation.

*In all my prayers for all of you, I always pray with joy because of your partnership in the Gospel from the first day until now, being confident of this, that He who began a good work in you will carry it on to completion until the day of Christ Jesus. Phil. 1:4-5, NIV.*

(The Winters' address for gifts is: Wycliffe Bible Translators, Box 2727, Huntington Beach, CA 92647. Their home address is: S.I.L. Bagabag Airport, 3711 Nueva Vizcaya, Philippines.)

## Andy Dorchester, KB7SLL (Congo)

Some people get the call from the Lord to go on the mission field when they are young. But for others, like my wife, Bertha, and me, the Lord waited a while. Before the Lord called us, I had been in the printing business for more than 20 years. I was skilled in all phases of letterpress and offset printing and was able to repair all kinds of printing equipment. In 1966, when I was well into my 50s, the Lord called us to Bukavu, Congo, Africa. By this time our three children were all grown and married.

My main responsibility at Bukavu was to manage the CBFMS mission printing press, Congo Press. There were 32 Africans employed at the Press. We saw literature, along with the prayers of the saints and work of the Holy Spirit, be the means by which hundreds of people came to a saving faith in the Lord Jesus Christ. Through our 24 years with the mission, I also had the privilege of counseling the local pastor and church officers, and preaching on occasion in Swahili.

Bertha soon became involved in women's work. Over the years, she had the joy of seeing nearly all of the women in her Bible and sewing classes put their faith in Christ. The results of our mission work were so rewarding in souls that the last time we were there, I told Bertha, "I wish we were 20 years younger."

The first year we were in Congo, a missionary invited

*Continued on next page*



me to go hunting with him. I had no idea for what, but before the day was over we each had an elephant! I still have the tusks, which were legally sent to the States at that time.

In July, 1967, there was an revolution with bullets flying all around us. We had to get across the border into Rwanda and then on to Uganda. There we served in our mission book store for 6 months.

When we got back to Congo Press and back into production, we could hire back only six of the former 32 native employees. However, the production was greatly increased and the quality comparable to that in the States. One of the Press employees showed his love for us by naming his son and daughter after us.

The evenings were without much to do, so after getting my ham license in 1969, I was on the air regularly as 9Q5AE until Congo canceled all licenses in 1972. The last I heard, you could get a license now if you had enough money.

To get started as a ham, I borrowed an old tube-type transceiver from a missionary friend. I taped about 9 feet of wire to a bamboo pole and tied the pole to a chimney near the peak of a metal roof. I first heard KH6SP calling "CQ" from Pearl Harbor, Hawaii. I didn't think he would hear me but I answered. He came back with, "You are coming into Pearl Harbor with a good signal." When I told him about the equipment I was using, he was amazed. I told him if he heard a lot of static that it was probably just a monkey shaking the bamboo pole!

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### ***Dennis Washer, N4EXB (Togo)***

What makes an "MK"? In my case, it was growing up with monkeys, snakes, dogs, rabbits, chickens and goats. Being born and raised on the mission field in Africa was certainly a unique experience! What a wonderful privilege has been mine to have this early exposure to the work of reaching souls.

However, being an MK was no magic cure for the sin in my life. As I attempted to convince God that He could accept me because of my parents and their ministry, I became steadily more miserable under the conviction of the Holy Spirit. At the age of eleven, my father had the privilege of leading me to a saving knowledge of Christ in a mountain camp in Colorado. Then, at last, I experienced the peace that comes from having a personal relationship with our Saviour.

I finished high school on the field by correspondence, and enrolled at Bob Jones University. After drifting from one major to another and graduating in 1973, I proceeded to get the flight training necessary to serve as a missionary pilot. It was only natural that I should go back to Africa as a missionary—the struggle of knowing God's will would come later.

After I married Diane in 1973, we made plans to go to Africa. After two years of deputation, we became increasingly troubled as to the reason for our going to the field. Was it truly God's will or was it merely to return home?

That question was answered in 1979 and we again had peace knowing that it was truly God's desire for us to be on the mission field.

We arrived in Togo in 1982, and immediately began a church planting ministry, taking over in a village church that my father had begun earlier. The door did not effectively open to use the airplane as we had supposed, but God richly blessed in the church work. Our second term saw us starting a new work in a new language group located about six hours north of our first-term home. God blessed in this work and at the time of our furlough we were seeing 65-75 adults faithfully attending. The lamp has been lit in that northern district—we pray that the light will not go out in coming days!

I recently completed a physician assistant program, and we look forward with excitement to returning to West Africa. We anticipate many more years of serving the Lord Jesus in a village church planting ministry.

---

### **Earl Newell, WA4ZIZ, and wife honored for 25 years of service**

Earl and Adele Newell were honored on December 11, for twenty five years of faithful and effective service with Source of Light Ministries, Madison, Georgia. Beautiful arrangements had been lovingly prepared for them in the SOL chapel and adjoining conference room.

God graciously led Earl and Adele to serve the Lord together after the death of his first wife, LaVerne. Adele had served in Peru with the Association of Baptists for World Evangelism and Earl had been a missionary with Rural Evangel Mission in Bulan, Kentucky, since 1951.

In 1969, they applied to SOL, where God has given them a variety of responsibilities. Over these years, Earl has served diligently as manager of the Printing Department, Home Director, Personnel/Candidate Secretary, Public Relations Director, and as supervisor of the Audio Visual Department. Adele has been the secretary to the Field Director, order clerk, coordinator of the Spanish Correspondence Department, and secretary for the Public Relations Director.



**Adele and Earl Newell**

Together they opened three foreign Branches for SOL in Peru, Chile and Kenya, which continue to have very fruitful ministries. Although their work load has diminished, they continue to make significant contributions in the home office and through meetings to represent the ministry.

(From an article by Glenn Dix in the January/February, 1995 issue of *The Reaper*, the official publication of the Source of Light Ministries.)



## **Ed Schuit, KA3QIN (African Inland Mission)**

While I am now technically retired and living in Waynesboro, Pennsylvania, I have spent the past 54 years in missionary work with the African Inland Mission. Our first 30 years of ministry were spent in Zaire, in south central equatorial Africa. Then we spent the next 18 years with AIM in Home Administration in New York and Toronto.

We have four sons, who, with their families, are all on the mission field. David (5H3DS) is in Tanzania, just east of Zaire, Don and John are both in Kenya, just north of Tanzania, and Bill is in Papua New Guinea. John and Bill both have their amateur licenses, but are not active for the moment.

Grandson Josh, 11 years old, just got his general license. He is nearby and we just got an antenna up for him. Perhaps we have another ham radio missionary in the wings.

---

## **Dick Matthews, WB9HOG (Mission Outreach Society)**

I accepted the Lord Jesus Christ as my Savior and Lord in 1953 as the result of the efforts of a young lady whom I met on a train. We were en route from Chicago to Texas, where I was going to my new Air Force assignment. She tried to lead me to the Lord there on the train, but I resisted. Later she sent me a Moody colportage booklet, and it was from that small tract that I became convicted. I have trusted Jesus as my Lord and have served Him in ministry ever since. (The next year, in 1954, I convinced that young lady to marry me!)

We attended the Moody Bible Institute in 1957-59, where I was first licensed as a novice. We served four churches before we went to the Latin American mission field in 1965. However, illness among our children forced us home in 1969.

In 1970 we established the Mission Outreach Society (M.O.S.) in Oregon, Wisconsin, and have been the general director ever since. Our major efforts have been in church planting, marital and family counseling, Biblical Christian counseling, summer camp ministries and in radio broadcasting. I have maintained the North American and Overseas Ministries Focus, aired weekly over the United Press International Radio and the Religious News Network, now concluding my eighth year.

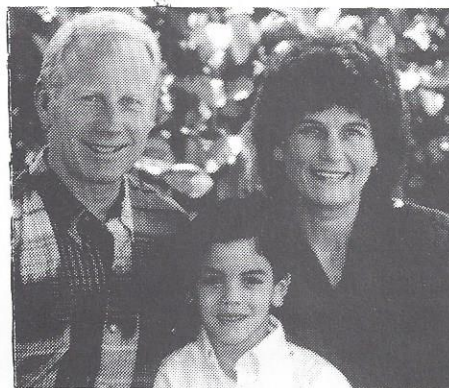
In 1987, we were called back to a church that we pastored from 1961-64, the Memorial Baptist Church in Oregon, Wisconsin. I have continued the work of M.O.S. while serving in the pastoral ministry. However, on May 15, 1995 I retired from the pastorate and returned to full time work as the general director of the Mission Outreach Society. It is my hope that now that I have concluded the pastoral work, I will be able to get on 20-meters again with the ARMS net.

## **Jim Gustafson, KJ6WU (Guinea)**

Last June we arrived in the Republic of Guinea, West Africa to begin our church planting work with New Tribes Mission. Our first four-year term will be here in Boké (rhymes with "okay") area, but we will have to spend our first year learning French. After that we will move into a tribe to begin the long process of tribal evangelism.

Matthew completed first grade by home school last year and did very well. He is looking forward to attending the Hamdallaye Mission School five miles from Boké.

We want to thank all of the people whose help and prayers have made the trip here possible. We continue to



Jim, Matthew and Danyce  
Gustafson

seek your prayers as we attempt to carry out the work to which we feel God has called us. (The Gustafson's mailing address is: Jim and Danyce Gustafson, La Mission Evangélique, B.P. 124, Boké, République de Guinée, West Africa.)

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## **Larry Castner, KR4PG (Waxhaw, NC)**

Several months ago the director of the Brazil branch of Wycliffe wrote to me and asked us to come back, expressing their desperate need. Please pray with us for stabilization of Barb's health condition—fibromyalgia—for the relief of pain and fatigue, so that we can consider a return to the work in Brazil.

Barbara has been learning another computer program. It is a program that is used by many people and departments in the computer field. The department in which she serves is assuming the responsibility of teaching new computer users. Many of the "students" are administrators, translators, in aviation, etc.

This has been a rewarding new venture for Barbara. It has also given her a new tool with which to help speed the task of Bible translation.

---

## **Steve Williamson, KJ7IR (Papua New Guinea)**

I have arrived in Papua New Guinea, the "Land of the Unexpected." Tribal people, who did not know the wheel 30 years ago, watch our jets from beyond the fence. It is my great honor to be here.

The trip was long—11,000 miles and 36 hours, but everything went well. Connections were leisurely, and all my bags arrived with me. The only casualties were my

*Continued on page 16 — KJ7IR*



# The Digital Revolution in Amateur Radio: Packet and Related Modes

In the last issue of The BEAM, I included an article about e-mail and the Internet. I asked those who were on the Internet to send me their e-mail addresses so that I could include them in this issue. The response was gratifying, and the up-dated list is given on the next page. I will continue to keep track of e-mail addresses as I get them, and will try to include them in the next edition of the ARMS directory.

However, my article had another effect. It brought the packeteers out of the woodwork. More than one requested equal time for packet and a listing of ARMS members on packet, with their addresses. So here it is. Since packet seems to be divided into two distinct categories, VHF and HF, I have asked two of our members who are active in each of these two modes to discuss them. I also have included a list of known ARMS packeteers on the next page.

—Editor

## VHF Packet Anyone?

The article in the Spring, 1995 issue of The Beam on e-mail was of considerable interest. Many of us are now investing in modems and taking advantage of the Information Highway. In spite of what we hear about some diabolical material being available, there are many quality programs that are worthwhile on Internet. Also as Dave has pointed out, e-mail is an ideal way to keep in contact.

Some of us live in secluded areas where we do not have easy access to servers without mounting long-distance tolls. That is true in my case and although I do have a modem and fax in my computer, I rely on packet radio as a much less expensive means of communication. For packet radio, a terminal node controller (TNC) is the link that converts computer language to radio language. A VHF TNC should cost about the same as a modem.

With packet radio one may literally talk to the world. It has been my privilege to communicate on the keyboard with other amateurs in many countries on the globe. All that is necessary to be in touch is to have the hierarchial address of the party with whom you wish to communicate. Norm Beuhler, KXØL, mentioned in his most interesting story that he is active in packet, but he didn't provide his packet address, so I was not able to get traffic to him. I was all prepared to send him a message, but the White Pages on my packet bulletin board (BBS) don't have a record of him.

It is not possible for me to cover all of the details involved in getting your VHF rig, your TNC and your computer all connected properly in this brief article. There are too many models of each. Probably the best advice is to find someone nearby who is already on packet who can sit down with you and help you get organized. Once you have everything properly connected, you need to find a local BBS that you can access from your home QTH.

Upon checking-in (connecting) to your local BBS for the first time, you will be asked to give your name, your QTH, your home BBS, and your Zip code. This information will normally end up in the White Pages which attempt to record users of packet radio for ready reference.

With a growing network of BBSs and Nodes (repeaters) across the country it is possible to send packet mail quite speedily to any point of the world. Just recently in Canada there was completed a coast-to-coast hook-up for

*Continued on next page — VHF Packet*

## HF Packet (and Other Modes)

There are several modes of HF operation using digital technology. I want to impress upon you ONE fact: you DO NOT have to be a computer genius or "on the edge" of technology to participate in the world of HF digital radio communications. It will take a good measure of patience though. As Bob has mentioned in the accompanying article, you need a TNC (radio modem/electronic mailbox), an HF radio and a home computer.

Most of the HF rigs in the last few years provide auxiliary jacks for control of the radio which will be utilized to connect it to the TNC. In other words, instead of the mic input, you will allow the TNC to control the transmit and receive functions. (That goes for HF as well as VHF.) Just as you would run a communications program if you use a telephone modem, you use a comm program designed for ham radio use. A good program will allow you to switch easily from one mode to another with a minimum of effort. I use the HostMaster II+ program from Kantronics and have used Lan-Link which has some bells and whistles but is too cumbersome in comparison. I have heard very good reports on KaGold for Kantronics TNCs and PkGold for the AEA PK-232 TNC. There are probably others, so don't count them out. Each program has its own way of handling things, such as changing modes, sending/receiving files, logging, etc.

Some of the modes available are: PACKET, RTTY, CW (that's right, let your computer send/receive CW signals), AMTOR, PACTOR, and G-TOR. In order to experiment with the different modes, you will need one of the ALL-MODE TNCs offered. Kantronics calls theirs a KAM, and AEA as well as MFJ have ALL-MODE models.

Once the hardware is hooked up, you just boot up the program and go to the mode you want. Packet is usually the DEFAULT mode and you'd have to switch to one of the others if desired. HF and VHF packet are similar in operation in that the message you are typing is broken into small "packets" for transmission or whenever you hit your ENTER key. On VHF, a packet will be sent when it gets to 128 characters and on HF a packet will be approximately 64 characters. Why fewer on HF? There is much less of a chance of a "breakdown in communication" when smaller packets are sent to a receiver over the HF bands. If the receiving station does not receive the packet correctly, the transmitting station has to repeat the packet. This, of

*Continued on next page — HF Packet*



## Continued from page 6 — VHF Packet

live communication on 2 metre packet radio. I was able to "talk" on the keyboard from my home on the west coast of Canada to another packeteer in Halifax on the east coast for over half an hour. Modern technology is increasing with great rapidity, permitting God's Word to be spread around world, as the Scriptures long ago predicted.

Those of you already into packet radio might list your packet address (hierarchical) with BEAM Editor, W5PQL, so that he could include it in a future issue of The Beam. That would allow us to send packet messages to one another. For starters, mine is;

VE7TRC@VE7KIT.#VANC.BC.CA.NOAM

I will be watching my Bulletin Board for packet mail from any of you.

—Bob Collings, VE7TRC

## Packet addresses

Jerry Brunk K4RBZ@KB4OLM.VA.USA.NOAM  
Dave Shortess W5PQL@VE7DIE.#SVI.BC.CA.NOAM  
Phil Caster N7YJJ@K6VE.#SOCA.CA.USA.NOAM  
Keith Sykora WA0JGT@WA0CJU.#SCMN.MN.USA.NOAM  
Mike Rafferty AA0AO@N3DPU.#EPA.PA.USA.NOAM  
Martin Matheson VE6GE@VE6MC.#EDM.AB.CA.NOAM  
Gordon Pearce VE7GHP@VE7ROB.#VANC.BC.CA.NOAM  
Bob Collings VE7TRC@VE7KIT.#VANC.BC.CA.NOAM  
David Plett 3A2LZ@IK1EBG.ILIG.ITA.EU

## E-mail addresses

K2DPK	Bill Engstrom	wengstrom@aol.com
W3BBM	Bob Matthews	bmath7009@aol.com
W3ZIF	Roy Kramer	w3zif@aol.com
KE4EW	Dave Immel	david.immel@ics.sil.org
KR4PG	Larry Castner	larry.castner@sil.org
✓ K4RBZ	Gerry Brunk	brunkger@emu.edu
✓ W5PQL	Dave Shortess	dshortess@aol.com
KD6DA	Bob Reitzel	kd6da@aol.com
✓ AA7GM	Ed Souls	edsoul@cdnet.net
AL7GQ	Geno McGahey	al7gq@aol.com
KB7JSG	Rudy Silva	rudyas@aol.com
✓ W7KAP	Al Folden	71644.632@compuserve.com
KG8BK	Bud Owen	kg8bk@w8dc.ampr.org
NZ8H	George Van Farowe	aq710@leo.nmc.edu
W9BNI	Claude Beachy	0005346426@mcimail.com
✓ KA9OOO	John Racz	1wisdom@msn.com
AA0AO	Mike Rafferty	76147.2425@compuserve.com
KB0CZV	Sam Klobberdanz	73750.3236@compuserve.com
WZ0D	Paul Bauer	73632.3022@compuserve.com
ZX0L	Norm Buehler	nbuehler@aol.com
WA0NJZ	Don Helling	75602.142@compuserve.com
K0QBA	Dick Schroeder	AB163@freenet.hsc.colorado.edu
W0RQI	Lash LaRue	lashlarue@aol.com
VE4ACA	Don Bettorf	dbettorf@wpg.ramp.net
VE6GE	Martin Matheson	matheson@freenet.edmonton.ab.ca
DL1MHV	Dale McMindes	100106.3647@compuserve.com

## Continued from page 6 — HF Packet

course, is done automatically, but this situation occurs much more frequently on HF because of the vagaries of the band. As with VHF, there is a time-share of the frequency so at any given time there may be several stations active. Everybody gets to use a frequency, but it will take longer to carry on a QSO or to retrieve a message. With each successive mode of operation that has been developed, ie. AMTOR, PACTOR (combined packet + amtor) G-TOR, etc., the troubles of interference from QRM or QRN theoretically have been minimized.

RTTY is a fun mode that allows you to simply "key up" your transmitter and begin typing. As you type, the characters are transmitted immediately and when your contact sees your "OVER" (many use "K"), he or she begins to type at their keyboard and you see the letters coming across your screen. When you see it turned back to you, your fingers go back to the keyboard, so on and on it goes! Hi!

So, use RTTY if you want to speak "in the blind" and AMTOR or one of the other modes to transmit/receive to and from just one station.

Packet signals have a long "screeching" sound and AMTOR has a chirping sound. When you tune up from approximately 14.070 to 14.115 you will learn to distinguish the sounds progressing from the PACTOR/G-TOR to AMTOR to RTTY to PACKET.

Oh yes, when you head to the HF bands, think **L S B**. (USB is not used, regardless of the band.)

You do NOT have to be a fast typist. When on packet, just as when you are typing a letter in a word processor, you can backspace to correct a mistake and nothing will be sent until you hit the ENTER key. (Assuming you haven't waited until the maximum packet-length setting has been reached.) Whatever is transmitted is EXACTLY what is received, right down to the last comma and period.

The multi-mode TNCs have a tuning indicator/bar graph on the face which is used to zero-beat a signal. With just a few minutes of practice you will be tuning the signals up and down the band and you'll see the words zipping right along on your screen. Again, it's no trouble to switch modes with the better programs. It will take time (and patience) to learn how each mode is operated once you choose your TNC and software. I recommend you start with packet and get your feet wet. Once you have that "up and flying," stick your neck out and try RTTY.

Each packet station is a potential "repeater." So, when the band is short, use one or two stations to connect with me. You might type this: C W0TX-7 (connect to W0TX-7, wait for his menu), C N8HT-7 (connect to N8HT-7, wait for his menu), C AA0AO (that's me!)

I usually have my Kenwood TS-440S tuned to 14.103 PACKET when I am home and my beam is pointed west from the Pennsylvania QTH. (The frequency is actually 14.102.8 but they call it 14.103 — don't ask!) Like Bob, I look forward to "seeing" you on packet or other HF digital modes. Have fun!

—Mike Rafferty, AA0AO



"What do you mean 'talk to people'?" I asked.

"You use Morse code," he said. "You know, dots and dashes. It's called ham radio."

I knew a little about Morse code and ham radio. I had run into it in Cub Scouts, but I never considered trying to get into it. I knew that you had to have a license to be a ham. I asked him about that.

"Oh yeah, you have to know the code and learn a whole bunch of technical radio stuff to get a license." He was showing off now. "Another guy and I are studying for it and practicing the code. You can't get a license now because of the war, but as soon as it's over, they'll open it up again and we'll be all set. You want to join with us?"

I was a shy kid in those days and a rather poor student in school, with pretty low self-esteem. My first reaction was *I could never accomplish something like that*. But I was interested, and over the next few weeks I watched Russ's breadboard radio slowly take shape. I didn't try to learn the code, however. Russ and his friend had a head start, and I didn't know the other fellow. I didn't want to butt in. Shortly after that, at the end of the summer, we moved about 25 miles away, and that was the end of my contact with Russ. After the war Russ got his ticket, and today he is W3MFW.

The summer after I finished high school, my family moved to Williamsport, Pennsylvania, and I enrolled in college there. One day I noticed a petite young lady in my speech class. Her name was Wealthy Keister. She couldn't have been over five feet tall, but one day she gave a speech about flying an airplane. She had soloed in six hours. She was a pilot! I was very impressed.

I also noticed that after class, she walked in the same direction that I did. In fact, her next class was right down the hall from mine. I had overcome some of my earlier shyness, and I soon found myself adjusting my departure from speech class so that we were walking together. One thing led to another, and the following fall, on September 22, 1949, we were married. Wealthy was a born-again Christian then, but I was just a church member. It would be 19 years before I joined her in accepting Jesus as my Lord and Savior.

After college, I got a job with Sylvania Electric. My B.A. in English didn't do me much good there, but it was a job, and I had a wife and two children to support. I eventually ended up as a materials expeditor in production control. Occasionally I would wander up to the engineering department and talk to some of the guys there. Several of them were hams, and they

encouraged me to consider getting a license. However, before that could gel, I left Sylvania. I had been working on getting my teaching certificate, and in 1955 I began a teaching career that lasted until I retired in 1991.

My first teaching job was in a junior-senior high school—7th and 8th grade English and American history. One day I discovered that one of my students was a ham. My interest was again aroused, and when he told me that he wanted to start a ham radio club, I was recruited to be its advisor. Of course, this meant that I needed to get my license, so in the spring of 1958, I became KN3EDR.

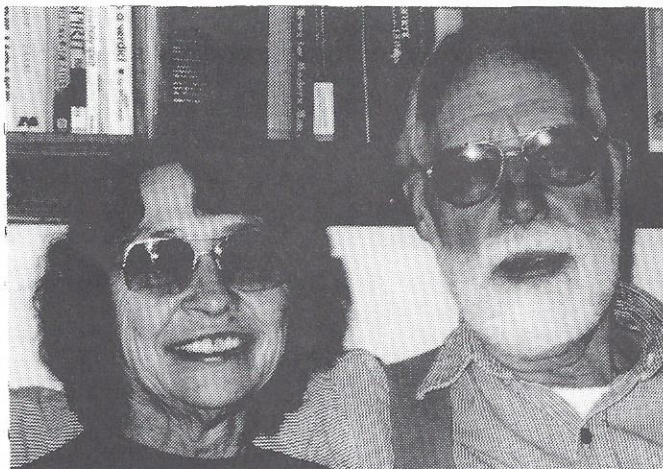
By now I had become rather disenchanted with teaching junior high English, and had taken enough additional credits to add biology to my certificate. In the fall of 1957, my third year of teaching, I was given one section of 10th grade biology, in addition to the 8th grade English and history. On October 4, 1957, the Soviet Union did me a tremendous favor. They launched Sputnik, the first man-made earth satellite. The U.S. panicked, and over the next few months, Congress voted huge sums of money for science education.

That winter following Sputnik, Penn State announced two programs to upgrade high school science teachers. One was for the summer and the other was for the following academic year. The qualifications for both programs included at least three years of secondary teaching experience, including one year of science teaching. I qualified, just barely, so I applied for and was accepted into both programs. We had three children by this time. In August, 1959, I was awarded an M.Ed. in biological science. I had made the transition from English to biology.

Of course, returning to college put a crimp in my budding amateur radio aspirations. I just didn't have time to get on the air. In those days, the novice license was good for only one year, so in order to keep my call, I took and passed the technician test.

When I went back to my teaching job in 1959, they gave me all of the 10th grade biology sections. The following fall, our school underwent an accreditation evaluation, with an outside team of evaluators. One of the members of the science committee was the dean of a nearby state teachers' college. He spent quite a bit of time in my classes. About a month after the team left, I received a phone call from him. They had had a sudden vacancy at the college for someone to

teach freshman biology. He offered me the job, to begin with the spring semester. The school district allowed me to break my year's contract, and I accepted the offer.



**Wealthy and Dave Shortess, 1995**

*Continued on the next page*



After we were established in the new community, I set up a simple 6-meter station and again became radio-active. Soon some of the college students learned that I was a ham, and they approached me to be, again, the advisor of a school ham radio club. A major thrust this time was to set up a club station on campus. However, when they discovered that I was only a technician, and the club station's privileges were limited to those of the sponsor, they put the pressure on me to upgrade to general. After flunking the code test once, I finally got the general ticket in 1962.

While teaching at the college level was great, I didn't like the fact that, with a bare master's degree, all I could teach were introductory courses. I needed more education. So in 1963 I went back to Penn State under an NSF pre-doctoral fellowship, and in 1966 got a Ph.D. in genetics.

That year I accepted a position in the Biology Department of New Mexico Tech in Socorro, and remained there for 25 years until I retired. When we moved west, my call was changed to W5PQL. Four months after we arrived our fourth and last child was born.

When we came to Socorro, we became active in the local Methodist Church there. One day in 1968, the pastor said, "You know, there is a weekend program to be held over in Roswell. They call it a Lay Witness Mission, and it is supposed to give your church a 'shot in the arm'."

We both agreed that our church needed a "shot in the arm," so he and I decided to go. It involved a group of lay folks who came in to a church for a weekend, at their own expense, and shared Christ through their testimonies. That weekend transformed my life. During a Saturday small group meeting, on September 21, 1968, the Lord hit me like a ton of bricks, and things have never been the same since. Wealthy and I were now on the same wavelength.

In 1975, our pastor somehow got an ARMS application. He wasn't a ham, so he gave it to me. I joined up, and for a time checked into the Rocky Mountain 75-meter net each Saturday. However, copy wasn't very good from my location, and when New Mexico was put into the South Central Section, I gave up trying to get in.

In 1976 I decided to apply for a Fulbright-Hays lectureship in a foreign country, a part of the U.S. government's scholar exchange program. After looking over the positions available, I decided to try for a one-year position in Malaysia. I was among the finalists but didn't make it. Several months later I received a phone call from the Fulbright office. They had a last minute, one-year opening in Amman, Jordan in my field, and thought that I might be interested. I certainly was, and I was accepted for that position for the 1977-78 academic year.

Wealthy and our two younger daughters accompanied me. It was, of course, a fantastic year. It was during that time that Anwar Sadat made his historic visit to Jerusalem, and Israel made its first attack on southern Lebanon in retaliation for a bus bombing in Tel Aviv. One weekend we stood on the Jordanian hills overlooking the Jordan Valley, and across the valley we could see low-flying bombers heading north. From time to time we could hear the bombs exploding not many miles away. It was the closest

## Treasurer's Report

Balance, June 1, 1994 1477.85

### Receipts:

Dues	1196.00
Gifts	222.20
Sale of pins	33.50
Interest	22.88
Total	1474.58

### Disbursements:

Printing	1207.40
Postage	422.25
Canadian exchange	2.85
Service charges	20.00
Total	1652.50

Balance, May 31, 1995 1299.93

(s) Robert J. Hambly, WA7BYD,  
ARMS Treasurer

by far that we had ever been to actual warfare.

I taught my classes at the Jordan University in English, and we used American textbooks. But it was still quite a challenge to teach students, for all of whom English was a second language. I had to learn to talk very slowly.

I wanted to do some hamming in Jordan, so before we went, I wrote to an address there that the ARRL gave me. I received a reply which told me that I would be granted reciprocal operating privileges, and that I could pick up my license upon my arrival. After we were settled there, I met the man who had written to me. He turned out to be the equivalent of the amateur branch of our FCC, a one man operation. With only about 50 hams in the whole country, they didn't need more. He even found a three-band, vertical antenna for me, brought it out to our apartment and helped me install it on the roof! A few months later he got married, and we were invited to his very elaborate wedding. What an experience! My call there was JY9DS.

I operated mostly on 20-meters, and was able to get into all parts of Europe and the Middle East fairly easily. Several times I was on the receiving end of some pretty humungous pile-ups from the States. There was one country with which I wasn't allowed to make contact—Israel. I would hear Israelis in Jerusalem breaking the Amman 2-meter repeater, but nobody would answer.

During that year we made two trips to Israel. At that time Jordan was the only Arab country which allowed travel back and forth across its border with Israel. The first trip was for a four-day weekend, but the second was for nearly two weeks right before we left to come home.

In the years that followed, my responsibilities at the college gradually increased, and my time for hamming

*Continued on the next page*



## Hidden Bible Books

In the following paragraph there are the names of 16 books of the Bible. Some are found in whole words, others in adjoining words. Can you find them?

"I once made a remark about the hidden books of the Bible. It was a lulu, kept people looking so hard for facts, but for others it was a revelation. Some were in a jam, especially since the names of the books were not capitalized, but the truth finally struck home to numbers of readers. To others it was a real job. We want it to be a most fascinating few moments for you. Yes, there will be a really easy one to spot, others may require judges to help them. I will quickly admit it usually takes a minister to find one of them and there will be loud lamentations when it is found. One lady says she brews a cup of tea so she can concentrate better. See how well you can compete. Relax now, there really are 16 books of the Bible in the story."

—from *Trinity Times*,  
Trinity, Virginia, Minnesota  
via Jerry Nelson, WØQPX

grew more and more limited. Typically I got on the air once or twice a year. At one point I seriously considered selling all my equipment and getting out of hamming, but Wealthy, bless her heart, wouldn't let me. "When you retire, you will have more time for things like that," she said. So I kept my license and my equipment, and I kept up my membership in ARMS. I'm glad I did.

In the summer of 1987 we made a trip to Seattle to see our son and his wife. We drove our camper and told them we wanted to see the Olympic Peninsula. We spent four days touring across this beautiful land, and it was love at first sight. Before we left we were armed with all kinds of property information.

In December we flew up to see what was available and whether we really wanted to move. The result was the purchase of six acres of beautifully wooded land ten miles west of Port Angeles, about a half mile from the Strait of Juan de Fuca, and about 20 minutes from the Olympic National Park. During the next three summers we came up to oversee land clearing, utilities installation and the building of a large garage which became our first home up here. In 1991 I retired and we moved. For the next year and a half, we built our house, some of it contracted, some of it I did myself. In October, 1992 we moved in.

As I look back on my life, I am thankful for many things—my wife and family, our home, my work. But the one thing that has stood out is the way that God has intervened and led in so many ways, more than I could possibly tell here. His timetable has been so obvious so many times. Opportunities, jobs, trips, retirement, and the fellowship that we enjoy both in our church and with the ARMS group, were all made possible by Him. Whatever accomplishments and successes that I seem to have had over the years must be attributed completely to the Lord. I give Him all of the credit, and I thank Him for it. —•••—

## Pray and Hope

Being a ham radio operator, I've become used to radio amateurs describing a certain piece of new equipment as having lots of "bells and whistles." To my knowledge I've never heard anyone say "whistles and bells." Or if you describe what you're serving for supper tonight you might include "bread and butter" rather than "butter and bread."

I'm sure you get the drift. And most likely you have already brought some more of these sayings to mind. But there is one saying that I heard recently at a commencement exercise. A friend of mine said, "When my son gets to college, I hope and pray he can find a job." I took special note that she didn't say "pray and hope." The truth of the matter is prayer leads to hope. We pray and then we have reason to hope. We hope because God hears us and God responds and He is the giver and source of hope.

In Romans 5 we find Paul using hope several times. He begins by laying down a great truth: "Therefore having been justified by faith, we have peace with God through our Lord Jesus Christ...and we exult in hope of the glory of God. And not only this, but we also exult in our tribulations, knowing that tribulation brings about perseverance; and perseverance, proven character; and proven character, hope; and hope does not disappoint..." (NASV).

My efforts so very often disappoint me, and my most sincere friends may disappoint me, but the hope Paul speaks of "does not disappoint." Biblical hope is defined as "favorable and confident expectation." Paul says in Romans 15:13 that God is "the God of all hope." In other words He is the Author, not the subject of hope.

So my case is this: When we pray to God the Father through our Lord Jesus Christ, that prayer leads to hope. We have every reason to have "confident expectation"—which is hope. Now I don't believe this explanation will suddenly change American usage so that hereafter and evermore people will instinctively say "pray and hope." But it really isn't such a bad idea—especially because God answers prayer and God is the Author of hope.

—Chuck Winter, N7AAG

(Chuck Winter recently resigned his position as pastor of the Harrah Grace Brethren Church in Harrah, Washington, after serving there for 24 years. He and his wife currently make their home in Nashville, Tennessee.)

## Eve's leaves—Adam had 'em

"What did Adam say to Eve in the garden?"

"Now look here Eve, you know very well who wears the plants in this family!"

—Gordon Pearce, VE7GHP

## Correction

In the last issue of The BEAM it was reported that Norm Buehler, KXØL, began flying in 1936. The correct date was 1946.

—Editor



# Section Reports

## Northwest Section

The Northwest Net has been enjoying good activity this summer, with the addition of a new member in the Grants Pass area, Bill Hooper, KF6AR, and the return of Mac, W7SDS, and Lola, WDØBAA, to the Tablerock fire look-out in eastern Oregon. Mac and Lola are with Wycliffe during the winter and return here each summer.

Some of our members have had medical problems since the last Beam was published. Pat, K7YIR, had heart by-pass surgery and is recovering nicely. Ren, N7FMD, had surgery on his arm for cancer and is now going down to San Francisco for a new treatment which is showing positive results. He is now back on the Thursday morning Net. Al, WA6SBC, had lung surgery but is back home now and improving, according to his wife, Wilma. Jim, WA6TTD, had by-pass surgery and is back to work.

We give our thanks to the good Lord for watching over our ARMS members. Ed, AA7GM, has been missed on the net. His wife, Dotty, has had some medical problems which keep him from getting up on top of the Manor where he has his shack. Ralph, WB700L, is now living in Newburg, Oregon. Since he got a dipole up he is back with us on Thursday mornings.

Steve, KJ7IR, who is now in Papua New Guinea flying planes and helicopters, and Lynn, KC7BUL, have announced their engagement. Lynn plans to join Steve as a missionary wife when the good Lord can arrange it. Congratulations to you folks.

On April 18 a group of us got together for lunch with Phil, N7YJJ, and Dee, KB7UEZ, Castner (see below). Phil and Dee lived in Grants Pass before they left to do missionary work on the Navajo Reservation in Arizona. Since their visit with us in April, they have moved to

Lakewood, California.

—Bob Hambly, WA7BYD

(Recently, on September 20, Bob had a fairly serious heart attack, but they caught it in time. After successful multiple bypass surgery, he is back on the mend and we are grateful for that. Keep Bob and Mae in your prayers. —Editor)

## Western Canada Section

There has been so much bad weather, and such poor skip conditions for so long, that it seems that nothing has happened since the last issue of The BEAM. However, we must admit that we have tried many, many times to get into the net, but only a few times did anyone hear us.

We were very pleased to get a packet message from Dave, W5PQL, our editor. Now we will be able to send in our reports without it costing postage. And with the way postage is going up over here, it is a serious matter! But, from the remarks I have been hearing when tuning in the net, you chappies south of the border are not getting good conditions either.

Unfortunately, not many ARMS members in Canada are on packet, so we have not been getting any messages from them. So, aside from hearing and visiting Bob and Shirley, VE7TRC, hearing Jim, VE4ID on the ARMS net and on HF, we have not been in contact with many Canadian members.

In our Alliance Church here in Abbotsford-Clearbrook we have been blessed with a new minister. He is Rev. Rick Porter, and I don't know whether it is a recommendation or not, but he is a friend of Jay and Dottie, KØGAZ. We installed him in last night to our ministerial staff as "chief operator." He knows we are watching for a chance to take him aside and find out what he knows about Jay!

Both of us here are feeling not too bad, although I did have trouble with my blood-pressure. The doctors seem to have it under control now, and things are much better. But

*Continued on page 13 — W. Canada*



All but one of the group that met for lunch in Grants Pass on April 18, from the left: Ed, AA7GM; Virginia (Ren's XYL); Ren, N7FMD; Al, WA6SBC; Dotty (Ed's XYL); Wilma (Al's XYL); Donna (XYL of Ed, K6AGD, who took the picture); Mae (XYL of Bob); Bob, WA7BYD; Wealthy (XYL of Dave); Dave, W5PQL; Dee, KB7UEZ; and Phil, N7YJJ.



# Scripture Crossword Puzzle



*How Things Work*  
Dedicated to Barbara, AA7IV

For our light affliction, which is but for a moment, worketh for us a far more exceeding and eternal weight of glory; 2 Corinthians 4:17

Unless stated otherwise, all Scripture references are taken from the King James Version of the Bible.

## ACROSS

- 1 River carrier
- 6 BEGINNING OF A QUOTE taken from Romans 8
- 11 "From \_\_\_ z"
- 14 "...I did \_\_\_ upon it." (Hag. 1:9)
- 18 Place of battle
- 19 Admiral of the Fleet in WWII
- 20 Son of Shem (Gen. 10:22)
- 21 "...he \_\_\_ upon ..." (Ps. 18:10)
- 22 Col. Potter's aide
- 23 "...went to Haiti" (Cole Porter song)
- 24 "...the spirit him;" (Mk. 9:20)
- 25 "Peter and the Wolf" duck
- 26 QUOTE, continued
- 30 Movie man Roach
- 31 Irish Free State
- 32 Volvo competitor
- 33 Tidal currents
- 37 "And the golden \_\_\_, according..." (1 Sam. 6:18)
- 40 "Till a \_\_\_ strike ..." (Pr. 7:23)
- 42 Lead strap
- 46 Christian author, entertainer Bryant
- 48 Void's partner
- 50 Jazz guitarist Montgomery
- 53 Recorded proceedings
- 54 QUOTE, continued
- 60 Having handles
- 61 Drip alternative
- 62 "They that sow \_\_\_ shall reap in joy." (Ps. 126:5)
- 63 Rolled oats and dried fruit cereal
- 67 Bald places
- 69 Old word for Trinity
- 70 Anger
- 73 QUOTE, continued
- 76 P.E.I. winter time
- 77 Brazilian dance
- 80 They bloom in Picardy
- 81 Pepper-uppers
- 84 Shapeless protozoans
- 86 Ancient dagger
- 88 Heart location, sometimes
- 92 QUOTE, continued
- 97 "Am I \_\_\_, or..." (Job 7:12)

- 98 Poem of praise
- 99 Dregs
- 100 "...heaven and earth is \_\_\_," (Eph. 3:15)
- 101 Intrepidity
- 103 Wise men
- 107 Shorts, with over
- 109 Israeli dance
- 110 Persia today
- 113 "...set his \_\_\_ on high," (Hab. 2:9)
- 115 Relief
- 117 END OF QUOTE
- 127 "The \_\_\_ out of the woods..." (Ps. 80:13)
- 128 Former Israeli prime minister, Golda
- 129 Former South African prime minister, Pieter
- 130 Edmonton hockey player
- 131 Writer Ferber
- 132 Offensive
- 133 Syrian president
- 134 "...a bow of \_\_\_," (Ps. 18:34)
- 135 Greenish blue
- 136 Pipe fitting
- 137 *The Cloister and the Hearth* author
- 138 "...and a sardine \_\_\_," (Rev. 4:3)

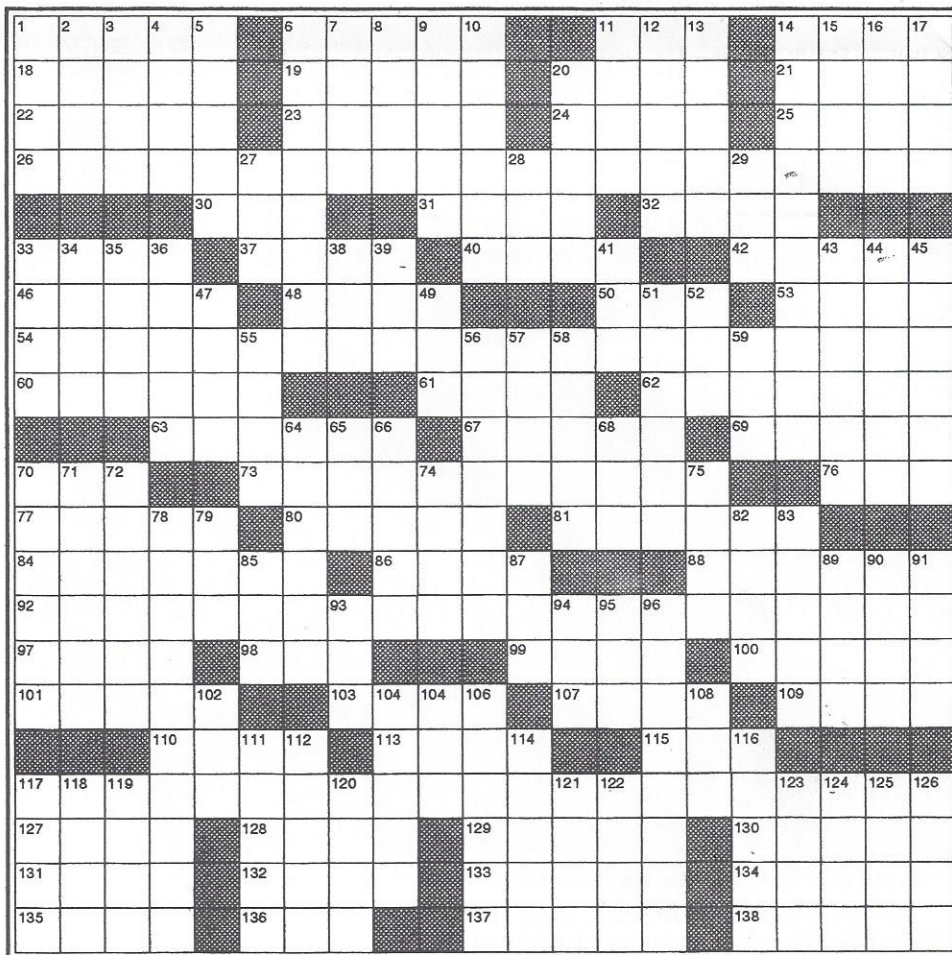
## DOWN

- 1 "...they cannot \_\_\_," (Is. 56:10)
- 2 Dishan's son (1 Chr. 1:42)
- 3 Fix up again
- 4 "...they \_\_\_ not the bones till..." (Zep. 3:3)
- 5 "And the \_\_\_ was ..." (Gen. 1:2)
- 6 Basic
- 7 Tidy
- 8 Computer input
- 9 "...and they stand ..." (Neh. 7:3)
- 10 Lash location
- 11 Jai \_\_\_ (Spanish sports game)
- 12 Glacial lakes
- 13 "The last" (Rev. 1:11)
- 14 Bully
- 15 Gray wolf
- 16 What your nose knows
- 17 "Filfil her \_\_\_," (Gen. 29:27)
- 20 Early anesthetic

- 27 "...in the land of \_\_\_," (Ps. 106:22)
- 28 "la la..." preceder
- 29 Gal of song
- 33 *Pro* \_\_\_ (in proportion)
- 34 Privy to
- 35 Where Legion's demons went (Mk. 5:13)
- 36 Mist from a kettle
- 38 Inferior dog
- 39 Fairy tale little guy
- 41 "...a wagon for of..." (Num. 7:3)
- 43 "...that \_\_\_ was ready..." (2 Cor. 9:2)
- 44 Aft parts of ships
- 45 Radio amateur's transceiver
- 47 Westernmost Aleutian Island
- 49 "...shall \_\_\_ the bough..." (Is. 10:33)
- 51 He had a really "bright" idea
- 52 R.R. stop
- 55 Spreads \_\_\_ (computer output)
- 56 One at rest
- 57 Earth's pull (abbr.)
- 58 Group of eight
- 59 Slugger Mel
- 64 Tricky
- 65 Mekong person
- 66 "...Peaceful in the Country"
- 68 Conceit
- 70 "...the extortioner \_\_\_ end," (Is. 16:4)
- 71 Branched
- 72 Theatrical ham
- 74 Singer Horne
- 75 Floppy variation
- 78 Branch of psychology
- 79 Tad's pres. dad
- 82 Family group
- 83 Word in the Psalms

- 85 "I love" in old Rome
- 87 Slithery fish
- 89 Dagwood's little friend
- 90 Swerve
- 91 Collection of old Norse poems
- 93 "...touched the \_\_\_ ..." (Mt. 9:20)
- 94 Drink with sympathy?
- 95 "...and she said unto \_\_\_," (Ruth 2:2)
- 96 Reckless adventure
- 102 "Ye do \_\_\_," (Mt. 22:29)
- 104 "Be ye \_\_\_, and sin not;" (Eph. 4:26)
- 105 "A time to \_\_\_," (Ecc. 3:6)
- 106 Weather map line
- 108 Carbondale sch.
- 111 Let in
- 112 Dinah to Rachel (Gen. 34:1)
- 114 "And \_\_\_ men said unto him," (Num. 9:7)
- 116 "Take away the \_\_\_ from the..." (Pr. 25:4)
- 117 Drive the getaway car
- 118 Morse or Zip
- 119 Marriage locale (Jn. 2:1)
- 120 Reebok competitor
- 121 "\_\_\_ boy!"
- 122 Food fish
- 123 Old fort at three rivers
- 124 Blue Bonnet, e.g.
- 125 "Thou hast well \_\_\_," (Jer. 1:12)
- 126 Perry's Gardner

Solution on Page 14





we are so very thankful to the Lord for His protection in health, and His Blessings to usward. We look forward to the up-coming issue of the Beam for news of YOUALL.

We so often recall the days of the 1985 ARMS Convention held in Regina. It was one of the most blessed times we have ever had, with the exception of the 24th of December, 1939, when Dorothy managed to catch me in one of my weaker moments and led me to the "Alter." Some people spell it ALTAR!!!

I am very active in Packet Radio, and regularly receive hundreds of items from England, including foods, recipes, UFOs, space, etc. etc. If any of you packet workers are interested, just send me a message saying so, and I will get information off to you forthwith, or even sooner!

May the Lord bless our Amateur Organization, and use each member to win others to Him.

—Gordon Pearce, VE7GHP

## Southeast Section

The Southeast Section Arms group got together May 13, 1995, at the Toccoa Falls State Park in Toccoa, Georgia. The picnic was planned by Bobby Howington, KC4ERJ and his wife Diane, KD4UXT. I had little to do with it! We had a great number of people to come (23 in all). We all played with WA4LLR, Dave's Kenwood TS-50 and downloaded weather info from his computer software. We also attempted to work mobile DX with his screwdriver antenna. We brought all the kids and they hit it off well with game of softball. The adults all talked and put a face with the call we had talked to for so long without a eyeball QSO. We hope, God willing, to make this an annual event.



Pictured above from the left: WA4LLR, Dave Gillespie, and his family, who are all hams; Mike Ayers, KC4PEV, and his family; Bobby Howington, KC4ERJ, and his family; Jake Wilson, N4PHK, and his wife; Denis Parker, WD4ACH, and his family; Bob Kurtz WA2CYO, and his wife; and Earl Newell, WA4ZIZ, and his wife.

I appreciate all the hard work that went into this outing to make it a great success, and to those who took time out of their busy schedules to come.

—Denis A. Parker, WD4ACH

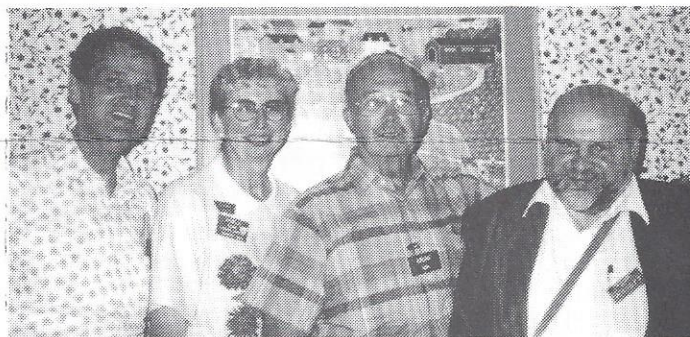
## Midwest Section

The Midwest Section of ARMS met together in Christian fellowship Saturday, August 19, 1995 at Mankato, Minnesota. There were 29 present. The initial gathering took place at the home of Midwest Section Director WAØDFT, Arnie Kopischke and his XYL Dorothy. WAØJGT, Keith, ably served as the talk-in station on 2-meters.

The group traveled in convoy to the Old Country Buffet for a delicious buffet meal. The opening prayer was given by Chaplain KØLHJ, Neal. Following the meal, the meeting was brought to order by WAØDFT, Arnie. Minutes of the previous meeting were read by Secretary WBØEJA, Elaine. A number of members unable to attend sent their regrets.

WAØJGT, Keith extended an invitation for the get-together to be held in Waseca, Minnesota in 1996. The date was tentatively set for August 17.

WAØDFT, Arnie announced the willingness of the 1995 officers to serve in their same capacities for the coming year: WAØDFT, Arnie, Section Director; KØOAV, Don, Section Vice-Director; WBØEJA, Elaine, Secretary-Treasurer; WAØTFC, Karl, Net Manager; and KØLHJ, Neal, Chaplain.



Midwest Section officers, from the left: Neal Thompson, KØLHJ, Chaplain; Elaine Wigen, WBØEJA, Secretary-Treasurer; Don Berggren, KØOAV, Vice-Director; Arnie Kopischke, WAØDFT, Director.

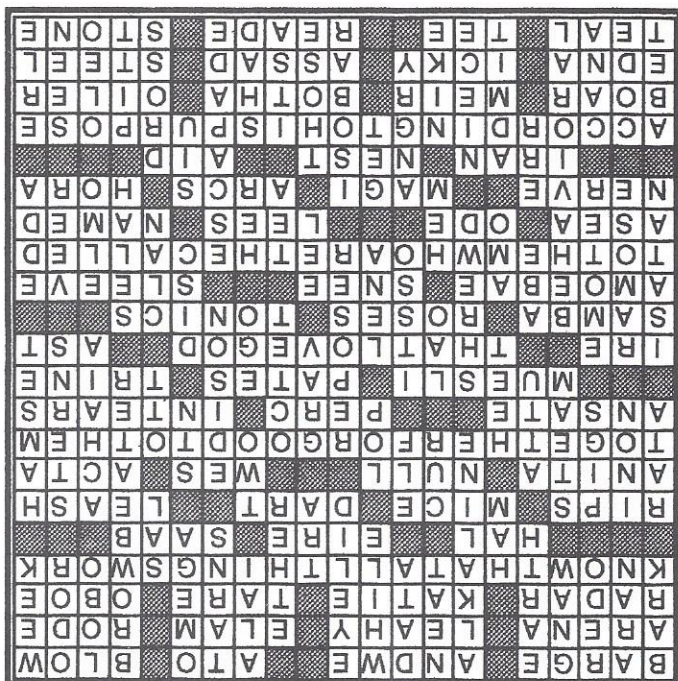
KØGAZ, Jay, vice-president of ARMS, brought greetings and encouraged members of the section to participate in 20-meter ARMS net. WAØJGT, Keith, suggested the establishment of an ARMS packet group. Any interested packet enthusiasts are encouraged to contact him. WAØTFC, Karl, sang a capella "How Great Thou Art" which touched the hearts of everyone present.

WBØHJG, Dean, told of his work with the engineering center of HCJB located at Elkhart, Indiana. He and his XYL, Eloise, have spent six months there every year since 1987. He described his experiences building transmitters for HCJB and Trans World Radio (TWR).

KØOAV, Don, told of his and XYL, Barb's interest in TWR and their recent trip to Monaco and surrounding countries. They visited friends from college days who are missionaries with TWR. He also told of his and Barb's

Continued on page 16 — **Midwest**





Solution to the puzzle on page 12

## We welcome our new members

- |   |  |
|---|--|
| Gideon Bañez, KC6WGN<br>21710 Everett Dr.<br>California City, CA<br>93505                           | Madeleine Cornwell,<br>KD6EPD<br>2139 Hilt Rd.<br>Hornbrook, CA 96044                  |
| Genevieve Blenkhorn,<br>N6IKI<br>11882 Edgewood Ln.<br>Garden Grove, CA<br>92640                    | C. J. List, W6KZX<br>P.O. Box 225<br>Mount Hermon, CA 95041                            |
| Dave Chambers, KØUFZ<br>6617 Vivian St.<br>Arvada, CO 80004   | Timothy Marsh, KC8AAD<br>226 Colfax St.<br>Plainwell, MI 49080                         |
| Janice Connelly, EL2CJ<br>1011 Mission Rd.<br>Madison, GA 30650                                     | Loren Murphy, KA7KHB<br>Casco Bay Marine Rt.<br>Coeur d'Alene, ID 83814                |
| Christine Grotendick,<br>DU/KC7GUA<br>P.O.Box 2378-MCPO<br>1263 Makati<br>Metro Manila, Philippines | Eric Nickell, DU/KI7AM<br>Box A.C.356<br>3001 Quezon City<br>Metro Manila, Philippines |
| Bruce Hartshorne, N3UDX<br>740 Ewing Rd.<br>Cochranville, PA 19330                                  | Andra Parker, KD4CLF<br>5116 Rebecca Ln.<br>Knoxville, TN 37920                        |
| William Hooper, KF6AR<br>249 Rustic Canyon Dr.<br>Grants Pass, OR 97526                             | Gary Lee Shriver, KC6SWL<br>3013 E. Monte Vista Ave.<br>Denair, CA 95316               |
| Ruth Howard, N7HII<br>2192 Coors Dr.<br>Golden, CO 80401  | Frank M. Skidmore, K7OKT<br>10012 9th Ave. NW<br>Seattle, WA 98177                     |
| Archie E. Jessee, WA6IGX<br>16818 Pasquale Rd.<br>Nevada City, CA 95959                             | Dale Smith, CP/KBØSNG<br>Casilla 522, Cochabamba<br>Bolivia, S.A.                      |
|   | Gladys Wenner, NØVPF<br>RD #4, Box 303<br>Lake Ariel, PA 18436                         |

## Silent Keys

### John G. Townsend, WØYYV

It has only recently come to our attention that John Townsend, WØYYV, of North Platte, Nebraska, went to be with the Lord on November 15, 1992. He had suffered a series of strokes prior to his death.

John was the owner of Christian radio station KJLT in North Platte. His son, John L. Townsend, is now the station manager. John is survived by his wife, Dorothy, KØUOK, who continues to work at the radio station.

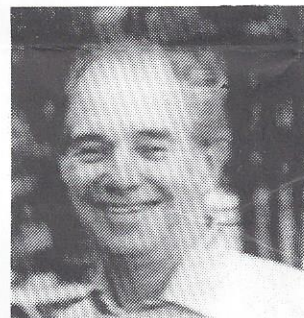
— • • • —

### George Jackamonis, K3JRD

George P. Jackamonis was born August 11, 1920 and went home to be with his Lord on May 20, 1995. Jack's mother was a Baptist, but converted to Roman Catholicism when she married, and she raised Jack in that faith.

He left home at age 16, and joined the CCC when he was 17. After that he was in the National Guard, and 1943 he enlisted in the Army Air Corps. During that time he had many unanswered spiritual questions. Then he met Patricia, a Christian (but backslidden, she says), and in 1946 they were married. For thirteen years they were indifferent to the Gospel, but one evening in January, 1959, in Poughkeepsie, New York, "the Lord took over," wrote Patricia. "In response to an altar call Jack reached down, took my hand, and we walked down the aisle together."

After his discharge from the service, Jack went to several colleges and graduated as an electrical engineer.



George Jackamonis, 1983

He worked for Bell Aircraft and IBM before he went to work for Philco in Philadelphia in 1959. Shortly after they began attending church there he was introduced to Bill Krewson. Bill, like Jack, was a ham and was involved in the budding ARMS organization. Jack immediately joined the group and was considered a charter member. Over the years Jack held several offices in ARMS, including Secretary-Treasurer and Section Director. Finally Jack went to work for the state of Pennsylvania as a research scientist, the position from which he retired. In 1984 he and his wife moved to Boerne, Texas.

Over the years Jack was active in his church, in hamming and in ARMS. He remained active until he was no longer able to operate his equipment. "He fretted about not being on the air," says his wife. "He moved his radio gear into the back bedroom, but he just couldn't manage it. The last 11 years of his life were lived with pain. He had

*Continued on next page — K3JRD*



## From Our Members Here and There

### Ray Hooper, WA5BRD

Long-time ARMS member, Ray Hooper, WA5BRD, from Mena, Arkansas, was disabled and retired 28 years ago when he was 40 years old. "I really appreciate ham radio," writes Ray. "It helps to keep me out of the bug house!"

Ray gets on the air just about every day, checking into the 20-meter ARMS net, and other Christian nets, as well as just plain rag chewing. "I check into a Christian net on 75-meters almost every morning at 6:55 a.m. on 3.976." At that hour he can copy net control stations in Wyoming and Utah.

Ray has a bunch of old radios that he has accumulated over the years, including an HW-16, an HW-101, a DX-60, a TR-4, a Swan 500 and more. "All these rigs are like me—old and worn out," jokes Ray.

He is active in the R.V.F.D. as their communications officer, assistant coordinator for the local RACES group, and a member of the Salvation Army communications unit. — • • • —

### From Greg Combs, K7ZX/VQ9ZX/TI2ZQ near the island of Diego Garcia

I am working, or rather serving, as the radio officer aboard the *S/S Potomac*, an Offshore Petroleum Distribution System tanker, here in the Afloat Prepositioned Fleet, off of the island of Diego Garcia. We are located in the middle of the Indian Ocean, south of India. During the Gulf War, our facility played a big part in the operation. A lot of the big bombers came from here.

The reason I qualified "working" is that the job itself is very easy, especially when we are at the pier. I have plenty of time for reading, ministering and getting in good physical condition. Praise the Lord for such an opportunity, even if it does take me away from home for four months at a time.

We have a fully-equipped club ham station, but I'm not the type to get on the air just to work DX. Out here we generate big pile-ups, as you can imagine.

I hope to hear you on the air when I return home in 1995. — • • • —

### Continued from page 14 — K3JRD

difficulty walking and holding things. He had home care for 2 years and nine months, spent 3 months in a nursing home and 9 months in the VA hospital in Kerrville. I went to Kerrville, 40 miles from our home, nearly every day that he was there. At the end he was down to 123 pounds from his original 210," his wife continues.

"All through Jack's hospital stay, God sent ministering angels in nurses uniforms, and Jack never failed to share his salvation with them. They told me of my husband's love for the Lord. The Lord does take care of His own."

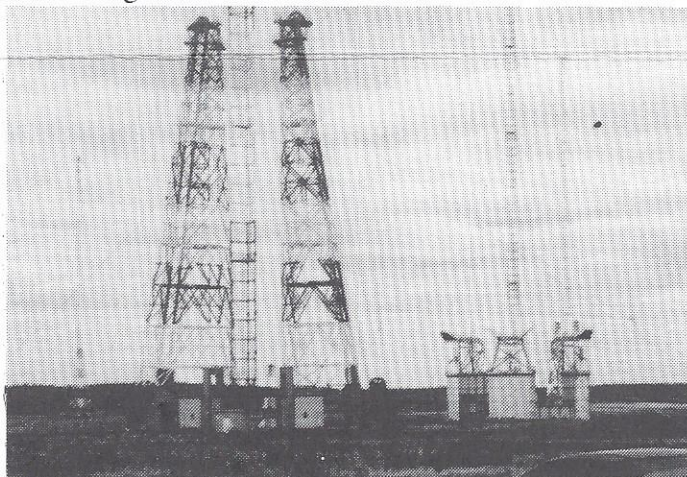
In addition to his wife, George is survived by two sons, seven grandchildren and nine great grandchildren. — • • • —

### Wendell Lewis, K1RPE, tours Navy's very-low-frequency transmitter site

Who has a radio station with the capability of transmitting 2 million watts of radiated power, and has an antenna system involving 26 towers ranging in height from 800 to 980 feet, capable of withstanding winds of up to 150 knots, and 75 miles of one-inch diameter phosphor-bronze antenna wire and over 2000 miles of copper grounding wire? The United States Navy does, on 3000 acres of coastal land at East Machias, Maine. It is located at the Naval Computer and Telecommunications Station (NavComTelSta) Cutler, and is the world's most powerful radio transmitter.

Wendell Lewis, K1RPE, and a group of fellow hams recently toured the Cutler site. "Rarely are these tours available, and the entire base is normally 'off limits' to everything," said Wendell. The copper-lined RF room and the HF area are completely off limits to outsiders, for both safety and security reasons.

The facility transmits very low frequency (VLF) signals, below 100 kHz, to provide communication links between the naval command authority on shore and units operating in the North Atlantic and Arctic Oceans. Those units include aircraft, ships, and especially submarines. Powerful VLF signals are capable of penetrating seawater, and are relatively immune to auroral effects that interfere with HF signals. — • • • —



A part of the antenna system at NavComTelSta Cutler. The two triangular towers in the foreground on the left support two huge, drum-shaped counter weights, visible on either side of the towers at the base. The weights are about 15 feet in diameter. They can be raised or lowered to compensate for the weight of ice on the antennas. The building farther away on the right houses the enormous loading coils at the base of the antenna.



*Continued from page 1 — Tract*

communication for many missionaries.

However, Doc had something else in mind back in those early days of ARMS for furthering the cause of the Gospel. He wrote several tracts which proclaim the Gospel in amateur radio terms. One of those was "Your Best Contact" which presents the subject of prayer in terms of making contact with God.

This tract has been available from a variety of sources over the years. However, since Doc played such an important part in the founding of ARMS, it was decided to prepare an "ARMS Version" of this tract. The text is essentially the same as the original, but the picture on the front has been updated to include modern, solid state equipment. In addition, a post script has been added giving information about ARMS, and Doc's relationship to it.

It is about 3-1/2 by 5-1/2 inches, roughly the same size of most QSL cards, and is designed to be included with them. They are also of a good size to carry with you and hand out at hamfests or other ham gatherings. A sample of this tract is included with this issue of The BEAM.

The tracts are available in multiples of 100 for \$2.00 per 100 to cover the cost of mailing and handling. They may be ordered from ARMS Treasurer Bob Hambly, WA7BYD, 1516 Lawnridge Ave., Grants Pass, OR 97526. In the future, we will make a provision on the dues renewal form to order the tracts when the dues are sent in.

So, give your QSL cards something extra—a word for the Lord with "Your Best Contact." — • • • —

*Continued from page 2 — Ray Rising*

Management Committee) was able to confirm that contact has been reestablished with Ray's captors. This new series of contacts includes what we believe to be a credible proof of life, including a message to us from Ray. In the message Ray states that he is in good health and sends his greetings to his family, his coworkers in SIL, and members of the local community in Puerto Lleras..."

Please continue to pray that Ray will soon be released in good health, and that, until that day, he and his family will be able to maintain a spirit of peace and hope.

A note from Ray's wife:

Dear ARMS friends,

I continue to be encouraged by the cards and letters people send telling me they are praying for Ray and us. I'm thankful to the ARMS members who are praying also.

Pamela Reeve once wrote: "Faith is recognizing that God is the Lord of time, when my idea of timing doesn't agree with His." I continue to say God is in control, otherwise this situation seems so senseless...I covet all your continued prayers for Ray's soon release.

In His care, *Doris Rising*

(Doris Rising's present mailing address is:  
Box 248, Waxhaw, NC 28173.) — • • • —

## Seed Thoughts



he heart is a garden,  
Row upon row,  
Where thoughts that we think  
Are the seeds that we sow.

Every kind, loving thought  
Bears a kind, loving deed,  
While the thought that is selfish  
Is just like a weed.  
We must watch what we think  
Each minute, all day.  
We must pull out the weed thoughts  
And throw them away;  
And plant loving seed thoughts  
So thick in a row  
That there will be no room  
For weed thoughts to grow.

—Eleanor Maxwell, WD4AWH

*Continued from page 5 — KJ7IR*

long legs, (I'm almost 6-4). I've already resigned myself to the fact that I will always be wet from perspiration. I must remember to shake out my shoes (tropical scorpions).

Soon I will begin extensive checkouts in a mission Cessna Turbo-206. Then, in about 4 weeks, I will begin the helicopter checkrides with Wycliffe Bible Translators. I will assist in some of their flights as pilot or observer. We will supply remote tribal stations, and this will help me to learn procedures and the country.

Some observations from my first week here: We drive on the "wrong" side of the road. Cornflakes are \$8.00 a box. Gasoline is \$4.50 per gallon, but base housing is very reasonable. Many beautiful birds and flowers. The people are friendly, and they like Americans. PNG has 862 distinct, indigenous languages (not dialects). Linguistically and ethnically it is the world's most complex nation. (Steve's mailing address is: New Tribes Mission, P.O. Box 1079, Goroka, E.H.P. 441, Papua New Guinea.)

*Continued from page 13 — Midwest*

work with RVICS (Roving Volunteers In Christ's Service), which will take them to Texas this winter.

WØQPX, Jerry, presented a slide lecture on the building of the third temple in Jerusalem. He told what preparations have already been made. Contributors to this venture will be given the distinction of having their names displayed in the "Book of the Sanctuary."

In closing, WAØJGT, Keith, sang "Thank You," and those present joined in on the chorus. Then, on behalf of the entire group, KØOAV, Don extended thanks to WAØDFT, Arnie, and XYL Dorothy for all of their behind-the-scenes work that made this such an enjoyable time of Christian fellowship. The benediction was given by WØLHJ, Neal. —Elaine Wigen, WBØEJA, Secretary