

# ANDEX



## INTERNATIONAL

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### DXer OF THE MONTH



*Nan Hawthorne with her RF-2900*

Some of the most beautiful country in the world lies in northern Wisconsin and the Northern Peninsula of Michigan. This is an area that is extremely popular with vacationers, both in the summer and winter. It is a land of woods and lakes and streams abounding in a variety of fish and other game animals. Each season of the year has its particular appeal to sportsmen and vacationers. During a few weeks in the fall, the brilliant coloring of the trees cannot be equalled anywhere else on earth and the roads are crowded with motorists enjoying the bright reds and yellows of the leaves. It is truly a fairyland of color to be enjoyed as one of God's beautiful gifts to mankind.

Our DXer of the Month, Nan L. Hawthorne, lives in Iron Mountain, a city in Michigan, but right on

the border of Wisconsin. During the winter months Iron Mountain becomes a center for winter sports of all kinds. On a hilltop near the city is located one of the highest ski jumps in the world. Skiers from many countries come to participate in the sporting events that are held. The Northern Peninsula is also part of the greatest iron-ore region in the world. Iron Mountain is a distributing point for iron ore from the famous Menominee range. Near the city the remains of one of the largest steam engines ever built can still be seen. It is no longer operational but served in the early mining activities in the region.

Nan Hawthorne is a relatively newcomer to the hobby of shortwave listening and just discovered the joys of DXing during the past few months. In fact, she heard HCJB for the first time in April of 1980. She joined ANDEX less than two months later and received membership No. 3685. Her plans are to join several other DX clubs as well, including the American Shortwave Listeners Club in California. She is one of the few young ladies we are privileged to have in our membership.

Nan is disabled so finds she has more time to listen to shortwave than the average ANDEX member. Her receiver is a Panasonic RF-2900, one of the excellent portable receivers being produced in Japan with digital readout. She does her listening using just the built-in whip antenna. The radio is usually turned on between nine and ten hours daily, mostly during the morning and evening hours. She also uses a tape recorder and external speaker to improve the sound quality.

Shortwave listening is an excellent hobby for a person with physical disability of any kind. In addition Nan likes to read and does some writing. She also enjoys corresponding with friends by

means of tape recordings. Pen pals add a great deal of pleasure to her life.

Our congratulations to Nan L. Hawthorne on being chosen as DXer of the Month. We are glad you have found the excitement and joy that are a part of this hobby. Keep listening and you'll find it grows better all the time!

## POINTS TO PONDER

The only way to understand and defeat your enemies is to love them!

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We are not made rich by what is in our pockets, but by what is in our hearts!

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Eternal matters are the only things that really matter!

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The evil seeds we sow today will result in bitter fruit tomorrow!

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Only eternity will reveal whether we have made the right use of time!

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You can prove the reality of Jesus Christ by asking Him into your life!

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The true measure of God's love is that He loves without measure!

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You have a great need for Christ; you have a great Christ for your need!

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No man of science has a reason for not becoming a Christian on the grounds of his science!

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### ANDEX International—

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## ANARC 1980 CONVENTION

Nearly 200 enthusiastic DXers attended the annual convention of the Association of North American Radio Clubs, ANARC. The convention was held on the beautiful campus of the University of California, in Irvine, about forty miles south of Los Angeles. The event took place July 18 - 20, 1980.

For the ANDEX members who attended the convention the pictures included in this month's ANDEX International will bring back many happy memories. For those who were unable to be present we know these photos will give you some concept of all the interesting things that took place in Irvine.



*Dave Browne, ANARC Executive Secretary*



*Jim Young holds two Ecuadorian wall hangings at HAP auction*



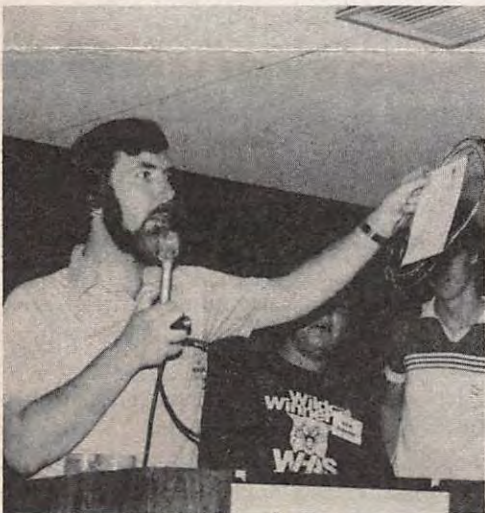
*Bob Zanotti receives International Broadcaster Award from Ian McFarland and Dave Browne*



*Agnes, Frances, and Lani discuss women in DXing*



*Some listen while others sleep!*



*Ian McFarland auctions HCJB 11-meter dipole antenna*

## Have You STOPPED...

AND REALLY THOUGHT ABOUT JESUS CHRIST?

WHAT HAVE YOU DECIDED TO DO ABOUT HIM?



You can talk to Him right now. Just honestly confess your sin. He will completely forgive you and make you clean in God's eyes. Ask Him to come into your life and He will.

## HISTORY OF RADIO

*By Kenneth Vito Zichi*

*Part 8*

Since the 1950s there have been considerable technical advances in electronics that have naturally influenced the development of shortwave radio. One of the most important was the invention of the transistor which has shaped electronic equipment to a great extent. With the introduction of the relatively inexpensive transistor multi-band

receiver, the message of the shortwave broadcasters has become much more widely heard. While the hobby in the United States, and to a large extent in all the developed nations of the world, remains just a hobby, in large areas where the local communications media are not well developed, shortwave is a vital link with the rest of the world. The small portable has opened the world of shortwave to those who could not afford a receiver just a few years ago.

The shortwave broadcaster's audience has changed so, obviously, the broadcasters have also made many accommodations. One of the biggest non-programming changes has been the power race. While I have never seen a study conducted on exactly why a shortwave broadcaster feels compelled to use higher power, it seems logical that reaching this less hobby-oriented listener is the major reason. It only stands to reason that if a shortwave broadcaster wishes to be heard, and all of the potential listeners have less than ideal equipment, he will try to put a higher quality and a stronger signal into that listener's antenna. One way to help do this is to use higher power.

Unfortunately, along with higher power came higher levels of interference. And, as if this were not enough, many of the newly-independent nations in the 1960s, as well as many nations that had not previously had a shortwave service, began to start programming for those beyond their borders. These new broadcasters and the increase in transmitter power put strains on shortwave radio. There simply are too many broadcasters to share the available spectrum space. Interference has become inevitable! The change during the past few years has been incredible.

Technology offers at least one answer to this problem of crowding. If broadcasters used single-sideband transmitters rather than the conventional AM or double-sideband system, more stations could use the shortwave bands with much less interference. At the same time less power would be required to put a usable signal into the target area. The problem is that the receiving equipment needed to decipher single sideband is considerably more complex than that needed for AM. In addition more tuning skill is required for satisfactory listening. It seems that since shortwave broadcasters want to reach the largest audience, AM will continue to be the standard on the shortwave bands.

It is too bad that the power race, which was designed to make shortwave listening easier, has had just the opposite effect. It is now very difficult to get a clear signal from any station other than one of those in the super-power class. To do so requires very sophisticated equipment which is out of reach for most shortwave listeners and even DX hobbyists. The overcrowding of the bands is a major factor in preventing the shortwave broadcaster's voices from being heard clearly. It is also one of the problems that can be handled only at the conference table by the ITU when frequency allocations are being determined.

*To be continued*

From American Shortwave Listeners Club  
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92649, Used by permission

## ANTENNA CONTEST WINNERS

In the March, 1980, issue of ANDEX International we announced an ANTENNA Contest. The object was to see how many words could be formed from the letters contained in the word ANTENNAS. We have delayed the judging of this contest to allow for entries that have come from distant places by slow mail. In this issue we are happy to announce the five prize winners. Each of the fifty-seven ANDEX members who took part in the contest will receive a special remembrance for their efforts.

- First prize - Mr. Bob Hammack of Ste. Genevieve, Missouri, USA
- Second prize - Mr. Steven M. Freeh of Binghamton, New York, USA
- Third prize - Nancy Cruickshank of Johnstone, Scotland, UK
- Fourth prize - Mr. Ajit Rasiah of Palmerston North, New Zealand
- Fifth prize - Mr. Ernest Vella of St. Venera, Malta

A special award will also be sent to Mr. Erhard Fritsche, of East Germany, as the only entry to be received from eastern Europe. He did very well considering that English is not his mother tongue. ANDEX congratulates the winners in this contest. We appreciate the hard work done by so many. All five prize winners passed the sixty mark in the number of words they were able to form from the eight letters in the word ANTENNAS!