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INTERNATIONAL

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WORLD TELECOMMUNICATION DAY

Civilization began when man learned to communicate. Since then, many pioneers have labored to widen the horizons of communication, to devise new and better techniques that will permit information to be carried by electronic networks on the earth or in the sky, and to transmit the human voice with ever greater strength and clarity over long distances. Only yesterday, in the long history of time, men took pride in being able to keep in contact with their neighbors by means of smoke signals or drum beats. Man later learned to communicate from one continent to another and to leap over the oceans. Today, the people of the world take it for granted that contact can be established between any two points of the earth. It is normal for a large part of the world's population to witness simultaneously, while seated in their living rooms, an event taking place anywhere on this globe. Air or ocean traffic is regularly controlled from a distant point.

It is evident that during the last decades a communication revolution has taken place, the effects of which are being felt in many parts of the world. These effects will soon be felt everywhere. There is hardly a sector of human activity that has escaped the rapid development of telecommunication and the chances are that this influence will increase rather than diminish.

It should be obvious that electronic communication is a means of primary importance for combating isolation; isolation of families living in rural or mountainous areas; isolation of elderly people who cannot travel easily; isolation of sailors, aviators, or astronauts.

The more telecommunication systems are improved, the more individualized they become and the term "public service" takes on increased mean-

ing. Every human being can expect to benefit. This is a right recognized by the International Telecommunication Treaty agreed to by the 154 member nations of the International Telecommunication Union. For this reason, one of the basic objectives of the ITU is to promote the development of technical facilities along with its proper use, in order to provide the best communication service to the public.

Every action of the ITU is designed to obtain the maximum usage of each type of telecommunication and to establish the indispensable international regulations needed for this purpose. This is the reason, for example, why the ITU has organized the World Administrative Radio Conference which will be held in September of 1979. WARC-79 will run for ten weeks and will consider, among many other things, the assignment of the available frequency spectrum to the many radio services, old and new. The nature of radio communication has given it an international character from its earliest beginnings. The decisions made at WARC-79 will have direct and important effects on all telecommunication around the world, and in space, until the year 2000.

In connection with WARC-79, and under the sponsorship of numerous member countries, the ITU has also organized TELECOM-79. This will be the third of a series of world telecommunication expositions which are held every four years. TELECOM-79 will take place in Geneva, Switzerland, from the 20th to the 26th of September, 1979.

WARC-79 and TELECOM-79 will permit specialists, politicians, and the general public to become aware of the enormous developments that have taken place in all phases of instant communication for everyone in every part of the world. They will

show the close relationship that exists between this progress and that being made in the social and economic areas. For this reason the theme of the eleventh World Telecommunication Day, May 17, 1979, is "Telecommunication for Everyone."

WHAT'S AHEAD?

Telephones that close your windows, turn on the oven, or water the lawn are but a part of the home of the future. "We are now just entering the electronic age," say the scientists. Among the wonders ahead are full-wall television screens, cordless home appliances, and jet cars and trains. Cars will be powered by engines the size of a typewriter. Home computers will plan your meals and remind you of dental appointments. An electronic lawn mower will guide itself and cut your lawn unattended. Cars will run without wheels on cushions of air. There will be pocket telephones to carry with you.

This all sounds like a bit of heaven on earth. Press a button and you open a window, cook the roast, or vacuum the rugs. Sit in your patio, sipping lemonade, while your electronic mower cuts the grass. This is the human dream!

But what is really ahead? When we turn to God's Word, the Bible, we find a much different picture. We find the world rapidly nearing the most awful and dreadful period in all its history. "For then shall be great tribulations, such as was not seen since the beginning of the world to this time, no, nor ever shall be" (Matthew 24:21). Today the dread specter of war and destruction hangs over the world. Powerful forces are determined to

overturn established governments and cultures. New electronic devices will come, but they will not bring peace to mankind.

What's ahead? "This know that in the last days perilous times shall come" (II Timothy 3:1). "And upon the earth distress of nations, with perplexity; men's hearts failing them for fear, and for looking after those things which are coming on the earth" (Luke 21:25-26).

God has provided for a special and wonderful deliverance from the coming holocaust, for those who know his Son as their Savior. You can read about it in the Bible, in I Thessalonians 4:15-18. An amazing event! God sent his Son into the world so that the world through him could be saved. He is the only deliverer from the holocaust to come. There is still time for anyone to obtain God's wonderful salvation. "For God has not appointed us to wrath, but to obtain salvation by our Lord Jesus Christ" (I Thessalonians 5:9).

Everyone now living on this earth is guilty before God. The Bible says we are "by nature the children of wrath" (Ephesians 2:3). "But the gift of God is eternal life through Jesus Christ our Lord" (Romans 6:23). "Believe on the Lord Jesus Christ and you shall be saved" (Acts 16:31). There is no better time than right now to accept God's provision for the difficult days ahead!

ENGLISH SCHEDULES

The HCJB English Language Service publishes two program schedules each year. They are ready for mailing around the first of May and the first of November. These dates coincide with the beginning of the two four-month broadcast periods followed by many international shortwave stations. Most major changes in programming are made at these two dates.

This issue of ANDEX International is being mailed to you at the beginning of May so we can include your new English schedule, just off the press. We will then go back to our regular bimonthly mailing with the June and July issues being mailed to you about the first of July. In the future your schedules will be sent to you in early May and November, as soon as they are available. This change will provide a much better service to our ANDEX members.

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FREQUENCY SELECTION

By Don Jensen

Part 2



Don Jensen speaking at 1977 ANARC convention

Frequency selection is a more complicated business for the shortwave broadcaster. While some international broadcasting stations change channels more frequently, most of the "Big Boys" alter their frequencies four times a year. They divide their broadcasting year into four seasons. There are two long seasons, the "J" schedule (May, June, July, and August) and the "D" schedule (November, December, January, and February). The other two seasons, the "M" schedule (March and April) and the "S" schedule (September and October), are shorter. The frequency choices are based on propagational considerations which change season by season, depending on natural phenomena such as angle of the sun, the number of hours of solar radiation, and so forth.

Shortwave listeners, of course, are familiar with the vexing problem of having two, sometimes more, major stations plopped down on the same or adjoining frequencies, causing a headache of mutual interference. With all the stations vying for channels during the optimum evening hours in North America, what is surprising is that there isn't more co-channel interference than there is. Attempting to coordinate this complex business of selecting frequencies is the International Frequency Registration Board (IFRB) of the International Telecommunications Union in Geneva, Switzerland. Since 1960, the IFRB has attempted, with some limited success, to reduce the chaos of seasonal frequency changes by broadcasters. The shortwave stations are supposed to submit to the IFRB, five months in advance of their actual use, the shortwave frequencies they intend to use. The

IFRB then compiles these intended channel usages into a tentative schedule, and recommends alterations in the plans when obvious problems appear to be pending. Alternative frequencies are suggested and advised in such cases.

The IFRB tries, but it has no real muscle to act as a frequency traffic cop. Thus, while some countries scrupulously try to cooperate with the agency in providing frequency-usage information, real and planned, others go their own merry way when it suits them. So it is not uncommon to find some of the major broadcasters indicating intentions to use far more frequencies than they will actually use. Other stations will jump from frequency to frequency, looking for a competitive advantage, with little consideration for the overall pattern of frequencies used within a given band.

So, when all is said and done, the actual choice of frequencies by a shortwave station is a combination of technical planning and seat-of-the-pants guesswork. This can drive a shortwave listener to distraction at times.

Often the fun times for DXers occur right after the seasonal frequency-change dates, when the international broadcasting stations begin their periodic juggling for position in the shortwave bands. If you want to keep tabs on these frequency changes, remember that the changeover dates are the first Sundays in March, May, September, and November.

DXer OF THE MONTH

This is a day in which women are exerting their influence in many fields. Even the DXing world is feeling the effects. Our DXer of the Month is a good representative of the many women becoming involved in the shortwave hobby. She is an active member of Grete Osmundsen's "Female DXers of the World."

Arlene W. Luskin lives in Silver Spring, Maryland, which must be a very interesting part of the country. It is right on the edge of the District of Columbia, the center of all government activity in the United States. What better location from which to do one's shortwave listening? Arlene works as a secretary during the day and does her DXing during the evening hours, between 2100 and 0200 GMT. Her other hobbies include cooking, needlepoint, and knitting, so she has her re-



Arlene & Caps listen to FRG-7

ceiver conveniently situated on a small table in her kitchen. In this way she can be doing her household work while listening to HCJB and other stations. She enjoys three or four hours of shortwave programs each day.

Arlene became interested in shortwave radio about two years ago. Her first receiver was a Zenith Transoceanic portable set. Recently, she stepped up to a Yaesu FRG-7, one of the most popular receivers being sold these days. She uses a random-wire antenna on the roof of her home. Whenever she has a spare moment she turns on her shortwave receiver. Her companion, and fellow DXer, Caps, frequently joins her at the FRG-7.

Another hobby enjoyed by Arlene is travel. She has visited the Orient, many of the countries in Central and South America, many islands of the Carribean, and England. This summer she plans to add a few more European countries to her list. While in Europe she expects to attend the thirteenth annual conference of the European DX Council. This meeting will take place in early June and will be held in Vienna, Austria. As a result she will have to pass up the ANARC Convention in Minneapolis, Minnesota, later in the month. She was one of the many who attended the ANARC Convention last year. While in Europe, Arlene plans to spend her time with two other lady DXers.

Arlene has been active in organizing the Washington Area DX Association. This is a social group composed of people living in the Metropolitan Washington, D.C. area who have the common bond of being radio enthusiasts, whether shortwave or medium-wave. Organizations of this type are springing up in many places and are becoming very popular with DXers. She has also joined a number of listener's clubs sponsored by radio sta-

tions including the BBC, Radio Budapest, Radio Kiev, Radio Portugal, Radio Australia, and others. In the United States she is a member of the North American Short Wave Association and SPEEDX. She joined ANDEX a year-and-a-half ago and is member No. 2614.

Our congratulations to Arlene W. Luskin. We wish her success in her many activities during the coming months and years.

VOICE PUZZLE

Here is a puzzle which has to do with voices on the air. We are grateful to Terry Concannon, of Whittier, California, who devised this puzzle. The idea is to see how many voices you can find in the maze of letters below. There are nineteen in all. The word or words you are looking for must complete the phrase, Voice of _____. In a few cases the phrase is Voice of the _____. Two obvious hidden words are Voice of the Andes and Voice of America. Can you find these two along with the other seventeen? They are all to be found in straight lines but can be vertical, horizontal, or diagonal. See how well you can do and we'll include the solution in next month's ANDEX International.

E	L	I	H	C	F	B	R	I	O	Y	M	E	T	Y	H
E	W	D	A	S	Y	K	G	R	E	E	C	E	O	N	F
F	W	R	H	A	E	N	R	A	K	E	C	I	O	A	A
N	S	T	T	S	C	H	A	N	N	E	N	B	O	M	I
N	A	U	S	K	E	E	T	E	B	T	A	L	O	R	P
L	H	R	A	N	T	D	E	S	Y	A	N	I	T	E	O
A	W	K	N	O	O	K	N	I	D	D	I	B	U	G	I
T	D	E	D	I	N	I	T	A	H	A	H	D	R	I	H
C	K	Y	B	T	I	E	Y	R	R	S	C	A	N	U	T
T	O	G	R	U	A	N	P	H	O	N	E	I	I	T	E
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O	T	H	I	N	T	V	M	O	E	I	C	I	E	T	I
M	R	A	R	I	Y	C	A	E	A	O	N	C	A	A	T
I	N	F	O	A	N	I	L	S	R	O	N	E	G	R	U
A	E	R	A	P	T	G	A	U	Y	I	D	O	N	K	L
P	T	I	T	S	O	U	Y	T	H	I	C	N	K	E	O
S	I	C	S	U	P	P	S	O	S	E	H	A	E	N	V
C	O	A	R	M	E	N	I	A	U	L	D	N	O	Y	E
T	B	E	Z	R	I	W	A	G	T	H	O	N	D	A	R
V	I	E	T	N	A	M	A	S	G	R	I	F	C	C	O
R	D	A	T	T	P	H	I	L	I	P	P	I	N	E	S
H	E	T	S	O	O	N	E	T	U	B	R	I	T	I	N