



# NORTH AMERICAN SHORTWAVE ASSOCIATION

HEADQUARTERS

265 Stilwell Road - Hamburg, New York

**VOL. II**

**FEBRUARY 1963**

**NO. 4**

* * *		PRESIDENT,	* * *
* * *		Richard D. Roll	* * *
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* * *	4APP-Dick Orcutt.....Editor	3BWL-Bill Eddings.....Editor	* * *
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Last months bulletin was somewhat late due to the competitive factors involving such as the holidays, the mail rush, etc., but this month things should be back to normal. Speaking of competition - there are many types of it in this world of today, but I just wonder how many of us realize the different motives involved? The average OM more or less thinks of competition in only one or two ways; That concerning business or that in the realm of sports. In both these instances the motives are the same...to defeat the opponent/adversary, make a profit and/or gain prestige. Many tactics are employed, even some which are oft times considered unethical. In this form of competition there is always a winner, always a loser. There is however, another form of competition resulting in everyone winning, nobody losing! Take our hobby for example - If more clubs would compete in a mutually benefited sort of way through friendly and constructive rivalries rather than through friction and controversy - all would be winners!!

Recently the CDXC and NASA had an inter-club contest and you undoubtedly know NASA was soundly trounced. Well, in this instance we were also victors in that we won the thanks and plaudits of our opponent as well as the satisfaction of proving we competed in a friendly, cooperative way. In this respect we could say we were happy to have been defeated by our FB CIXC hobbymates, but in addition we might also say "Wait till next year!"(Hi!) And so, in summation then, competitions can help our clubs and hobby IF we conduct them in a friendly rivalry way, not seeking to win for worldly gains, but for "Unity and Friendship"!!!

FLASH!!!

FLASH!!!

FLASH!!!

FLASH!!!

FLASH!!!

In next months bulletin you will find all details regarding DX-U merging into NASA. We will also have news regarding various other clubs interested in becoming NASA affiliate and or co-ops!

NEW MEMBERS-We welcome the following OMs as new members to the NASA. We hope they will always keep in mind our motto of 'UNITY and FRIENDSHIP', as the only way to harmony between all!

- #93- Clayton Woodward Palmas, Alaska. KL7PE2Q (through Bill Eddings)  
 #94- Gene Molter LO Hawthorne Ave. Needham, 92, Mass. WPELIW (" " ")  
 #95- Odis Woodward 2092 Evelyn Ave. Memphis 4, Tenn. WPE4DKE (J. Arthur)  
 #96- Timo Lehtio Virkby, Sunis-Hagen Virkby, Finland OH2PE1L (W. Harris)  
 #97- Conrad Vená 29 Orient Way Lyndhurst, N.J. WPE2JBQ (L. Kuney)  
 #98- David E. Becker R.D. 2 Pottstown, Penna. WPE3CYC  
 #99- Bill Orth Rt. 1 Box 201 Paddock Lake(Salem), Wisconsin WPE9ETN  
 (Tom Mann/Bill Eddings)  
 #100- Earle J. Fisher 1412 Piper Ave. No. Las Vegas, Nevada WPE7BEX  
 (Bill Eddings)  
 #101- Harvey E. Young McAlister, New Mexico WPE---- (Jim Creek)  
 #102- Richard F. Little 4140 Winfield Ave Fort Worth 9, Texas WPE5CBD  
 (Bill Eddings)  
 #103- Ramon W. Rosati 63 Bates Ave. East Longmeadow, Mass. WPE1CVM  
 (Steve Raiche)

Renewing are, Curt Webber, Charles C. Curry (two years), Tom Mann, and David Hailey.

Last month we gave you info on the club stamps; Here is more detailed facts on them: There are two sizes, a large one about 2 $\frac{1}{2}$ " in diameter and a small one about 1" in diameter. (The smaller one is more FB) Both are \$.89 postpaid! When you order them, direct from Headquarters, please specify which size you want. Keep in mind that it is risky to send cash; We would suggest a money-order be used! Make them payable to Richard D. Roll-NASA. Tnx!!

And now to the club qsl card, which you will find a sample of enclosed with this months bulletin, (cardswap section). Two types are being sent as samples; Some of you will get the woodcraft stock, others will get the glossy stock. Either of these sell for \$2.20 postpaid per 100. There is also the plain stock (we do not have samples of these) which can be ordered for \$1.70 postpaid per 100. All three types are similar insofar as printing arrangement is concerned, the only difference is the cardstock. Although club colors are red and black, as used on the sample cards, you have a choice of any of the following colors; red blue yellow, green, black or silver. When ordering be sure to give the two colors you want, and give your call letters, your name and address. Most of all, make sure you specify that you want the NASA club cards. Send all orders to: Print Shop, 2024 Willow Street, Caldwell, Idaho. (DO NOT SEND YOUR ORDERS TO HEADQUARTERS!!) Delivery takes approximately two weeks from date of order. Be sure to follow all ordering instructions so that you will not cause any delay. Remember, ask for the NASA club cards when you order!! Only members of NASA can get these cards! Even if you do not plan ordering any of these cards, we would like your opinion of them. Tnx! Speaking of opinions, we would also be happy to know what you think of the club stamps too!!!

Paul Kirkpatrick 229 W. Chestnut St. Souderton, Penna. writes, "...I've received various letters from your club members about log books that the DXers adio Club was selling. Thanks for your patronage. Due to financial difficulties, however, the DXRC has been forced to be discontinued. Still though, anyone may still order these log books from me for \$.15 postpaid.

CANDID COMMENTS- "Keep up the good work, as soon as my membership runs out, send me a notice!"----Danny Dannels. "The NASA rubber stamps are FABULOUS!!!" ----Rich Derrickson. "The club writing paper is B-U-tiful!!!" ---John Arthur. "You are doing a FB job with the NASA bulletin!!"---Tom Mann. "Keep up the good work!"----John Ball. "I should like to hear from any members who listen on the long waves."----Paul Gough, 18 Eliot Ave. West Newton 65, Mass. "I enjoyed the January issue very much! I like my MW award very much, it looks real FB!"----Larry Marshall.

When reporting to sections, or writing to Headquarters, always remember to write your QRA/QTH on all your correspondence!! Tnx!!!

Headquarters has been thinking about appointing an awards editor, to keep you abreast of the ever increasing number of awards and certificates being offered by clubs/individuals/ect. We would like to hear your comments on this before attempting any arrangements.

Speaking of awards, a note on the NASA awards program. We have temporarily run out of ham-band awards. It will take about 4 or five weeks to process another batch. Take this into consideration if you apply for it within that length of time.

Services and supplies available to NASA members-

Club QSL Cards- See frontal section, page 2.

Club Letterheads- \$1.00 per pad of 100 sheets, two color, red and black.

Awards Program- Write Headquarters for details.

Stenciling Service- Headquarters will send you (upon request) a memo. stencil for you to type your own report form, logs, ect. Return it and we will print as many copies as you wish. Write for details and prices.

Ham QTH Service- If you haven't the \$\$\$ to buy a ham call book, don't worry about it! Lavoyd Kuney, NASAs ham band editor, will be happy to supply you with any QTH. PLEASE ENCLOSE A SASE with your request!! Tnx!!!

Club Rubber Stamp- \$.89 postpaid, sample impression, no charge. Order from Headquarters only.

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THE NORTH AMERICAN SHORTWAVE ASSOCIATION publishes twelve bulletins per year. Membership is open to anyone interested. Dues are \$2.50 for residents of North America; \$3.00 for residents of other parts of the world. Sample copies of the bulletin can be obtained by sending 10¢ to NASA Hq. All bulletins are mailed via third class mail unless otherwise arranged. Return postage guaranteed.

!!! "UNITY and FRIENDSHIP" !!!

CANDID COMMENTS- "Keep up the good work, as soon as my membership runs out, send me a notice!" ---Denny Dannelia. "The NASA rubber stamps are beautiful!" ---Rich Derrickson. "The club writing paper is B-U-T-L-E-R!!!" ---John Arthur. "You are doing a FB job with the NASA bulletins!" ---Tom Mann. "Keep up the good work!" ---John Hall. "I should like to hear from you."

NORTH AMERICAN SHORTWAVE ASSOCIATION  
MEMBERSHIP APPLICATION

\*\*\*\*\*  
Headquarters-NASA 265 Stilwell Road Hamburg, N.Y.

Name \_\_\_\_\_ Call letters \_\_\_\_\_

Address \_\_\_\_\_ City \_\_\_\_\_

Zone \_\_\_\_\_ State \_\_\_\_\_ Country \_\_\_\_\_

Age \_\_\_\_\_ Schooling/Vocation \_\_\_\_\_

What other clubs are you a member of? \_\_\_\_\_

Other hobbies/interests, ect. \_\_\_\_\_

What languages you write/speak? \_\_\_\_\_

Favorite DXing bands \_\_\_\_\_

Receiver(s) \_\_\_\_\_ Antenna \_\_\_\_\_

Other gear \_\_\_\_\_

Are you 100% cardswapper? \_\_\_\_\_ Tapesponder? \_\_\_\_\_

Would you accept an official position with NASA if qualified/appointed? \_\_\_\_\_

\*\*\*\*\*  
Membership is \_\_\_\_\_ per year. Please remit by postal money order if possible. Membership entitles member to a membership card, all club bulletins, all voting rights, and all services now and hereafter offered by the club. (Note: Membership outside North America, \$3.00)

Date \_\_\_\_\_ Signature \_\_\_\_\_

Recommended by \_\_\_\_\_

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"UNITY and FRIENDSHIP"

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NASA NEWSROOM

NORTH AMERICAN SHORTWAVE ASSOCIATION

Ron Luyster, Editor Route 1 Flushing, Ohio.  
Rich Derrickson, Asst. 305 Jefferson Ave. Alexandria, Va.  
NASA Page 1 February, 1963

\*\*\*\* NASA Newsroom Special.....Fabulous Little Oscar

"An adventurous band of Californians have caught up with the Army, Navy, Air Force and Russia---they've put their own private globe-girdling satellite into orbit. These imaginative Californians spend day-times at a variety of professions and businesses, mostly electronic. In their leisure time they're radio hams. Working evenings and weekends in attics and basements, they put together their satellite for exactly \$63.47, and it made history. It beat out the \$50 million Telstar by seven months for the honor of being the world's first privately owned satellite. The group has since put up a second satellite, which like the first remained in orbit three weeks. They're planning a third for early 1963. The full story came to light when the American Radio Relay League, the organization of U.S. "hams", published an analysis of the first flight. It all started one morning three years ago when Fred Hicks a radio-frequency expert for a large missile contractor, spotted a query item in "CQ", a publication for hams. An editor, Donald Stoner, wondered if it were possible for amateurs to have their own little radio station up in space. "Why not?" thought Hicks, and reached for the phone. He called a friend, M.C. (Chuck) Towns, who said, "You're nuts! When can we start?" They corralled Bernie Barrick, Stan Benson and Nick Marshall, all fellow hams, and began to plan. Their idea: to build a miniature short-wave transmitter and somehow get it aboard a capsule bound for outer space. The transmitter would orbit and send back Morse signals that could be picked up by hams all over the world. The problems they faced were gigantic. To begin with, practically every cubic inch aboard an unmanned capsule is jammed with electronic equipment. The amateurs had to find out when and where one was being launched, and if there would be room aboard for their moon. Hitching a ride in an orbit-bound cylinder was unheard of, and approval was needed from virtually everybody in government. Finally, the home-built transmitter itself had to be small enough to fit in a confined area, yet rugged enough to withstand the rigors of launching and a ride in space. It had to be curved just right to conform to the outer circumference of the capsule, and must weigh exactly what military officials specified. Someone dreamed up the name "Oscar" for the baby moon---for "Orbiting Satellite Carrying Amateur Radio". Soon the Project Oscar Association was formed and satellite-building began in earnest. A half-dozen designs were drawn up and finally one was chosen. Parts were scrounged everywhere..even begged and borrowed from sympathetic supply-department chiefs. What they could not get otherwise, they bought second-hand for a total outlay of \$63.47. At last Oscar was finished, a compact little box the size of a portable typewriter. Meanwhile, scores of Oscar workers and eager hams began writing letters to top people, pleading space aboard a vehicle. Initial reactions were polite snickers. Later the members enlisted the aid of the ARRL. The League wrote more letters, negotiated in Washington and eventually won out. Oscar was approved by all agencies for a flight on a "space available" basis. Jubilantly, the hams went to Vandenburg AFB in California (cont. page 2...)

OSCAR(cont.)...to iron out details and figuratively held their thumbs aloft. But new obstacles developed. First the amateurs learned that for optimum heat protection aloft the aluminum box holding Oscar had to be gold-plated. Someone in Los Angeles offered to do the job free if Oscar could be brought to him. A project member took off in his own plane, Oscar snuggled safely beside him. En route, his motor conked out--the engine caught again, but the flyer landed in a field and hitched a ride to Los Angeles. Oscar was gilded and flown back. The second serious stumbling block was a required testing of the complete apparatus to make sure it wouldn't fall apart in space...requiring a private testing lab fee of nearly \$10,000. William I. Orr, the project's spokesman relates that they had no choice except to build their own testing equipment out of scraps. Eventually everything was tested and the reports written up. Military authorities double-checked...everything was fine! Just after noon on Dec. 12, 1961, the Discoverer XXXVI space vehicle rose majestically from its launching pad, and headed upward toward a north-south orbit. Oscar was aboard. For three weeks, the little satellite whirled round and round, dit-ditting a message to hams on all continents before re-entering the earth's atmosphere and burning up. It was a happy greeting---four dits, a pause, two dits. It spelled out "Hi". What did Oscar accomplish besides giving some fellows the thrill of a lifetime? The Project Oscar Association reports: (1.) The first satellite's heartwarming "Hi" was reported by more than 570 radio amateur tracking stations in 28 countries, including Japan, China, Antarctica and the USSR. (2.) It is possible to launch a space satellite that can be heard by a majority of the world's 350,000 hams. This vast army of skilled radio experimenters can aid in gathering vital data on outer space. (3.) The project demonstrates once again that the US is working toward the peaceful uses of space. We haven't heard the last of Oscar. No 3, Bill Orr confides, may be versatile enough to permit two hams on opposite sides of the earth to communicate with one another. It will be a real "first". But the cost of this one might run as high as \$70." As Oscar would say "Hi!" (Reprinted from the Washington D.C. Star, via Asst. Editor Richard Derrickson.)

AROUND THE CLUBS---A new SWL organization is getting under way and is called "The United States Radio DX Club". Mark Kleinfield is the president, and resides at 81 Van Cleve St., Maywood, New Jersey. Dues are \$1.50 a year and a FB bulletin is published nine times a year, featuring all phases of SWLing. All comments and suggestions are welcome. When you write, kindly mention that you received this info from TOM MANN, 1805 East Elmdale Ct. Apt. 6, Milwaukee 11, Wisconsin. (Thanks, Tom, for the info!)

LATE ITEMS--- JOHN BALL reports, "Rumor has it here that Radio-Electronics magazine has/will stop its FB monthly propagation forecast. I'm sure every well-informed SWL is acquainted with this FB feature of RE, and will want to squawk a mite to the editors. ..."Despite a lot of talk to the contrary, the H bomb blast by the U.S. in the skies over the Pacific blotted out radio communications for only a period of minutes. Scientists feared a long disruption, which certainly would be disastrous to all SWLs and hams." (Many thanks for these comments, John, OM!)

TRANSLATION BUREAU---All aspects haven't been worked out yet, but if you have a QSL card or letter written in the Spanish or French language that you would like to have translated into English, send it to me or to Asst. Ed. Rich Derrickson. No charge is asked, but please enclose a SASE or a 5¢ stamp. No stamps necessary from overseas members.

\*\*\*\*That's all of our space...now on to buddy Rich's FB pages! Adios.

\*\*\*\*VOA TO SPEAK LOUDER--- The largest and most powerful shortwave radio broadcasting station in the world is being rushed to completion near Greenville, N.C., stepping up the U.S. program to offset communist propaganda. Programs broadcast from this new station, with the aid of booster relay stations abroad, will be sent through most of Africa, Latin America and even deep into the Soviet Union. The new station will replace stations in New York and New Jersey that are 20 to 25 years old and obsolete. (via CURT WEBBER, Kansas)

\*\*\*\*TV CENSUS--- According to the trade magazine Television Age, there are 117,475,850 television sets in use throughout the world today. North America accounts for more than half of this total, with 61,665,000 sets. Only 9,359,000 sets are in use in the Communist-bloc countries.

\*\*\*\*CUT-OFF DATE SET FOR VHF--- The Federal Communications Commission has set April 30, 1964, as the last day on which a TV receiver can be manufactured in the United States for interstate shipment without provision for the UHF channels. This means that 1965 models will be all-channel, at a higher cost, and be available the latter part of 1964. At present there are over 110 UHF stations on the air and slightly more have FCC permits to operate or have applications before the FCC. There are about 520 VHF stations on the air now. (Wash. Daily News)

\*\*\*\*NEW SATELLITE--- A secret American satellite, so sensitive it can tap Russian telephone messages and pinpoint missile launch sites by their radio guidance signals, is now orbiting the earth, according to defense sources. (Wash. Daily News)

\*\*\*\*RADIO & TELEGRAPH USED AS MARKERS--- Movement of the continents used to be a favorite theory of some geophysicists seeking explanations for the changes in climate at the poles. The theory lost much of its force a few years ago, when William Markowitz of the Naval Observatory in Washington D.C. analyzed some of the evidence. If the old records were correct, Markowitz said, they could only mean that "large shifts occurred until the invention of the telegraph, moderate shifts until the invention of the radio and practically none since then." The remark shows how important it is for scientists to be able to time events simultaneously in many parts of the world. (via BILL EDDINGS)

\*\*\*\*SIXTH WONDER OF MODERN WORLD-the TRANSISTOR--- In the 14 years since the invention of the transistor was announced at Bell Telephone Laboratories, its inventors have received the Nobel Prize and the transistor has been recognized as the "giant of the electronic age." The transistor is a tiny device that generates, modulates and amplifies electrical signals by means of a solid - rather than in the vacuum of a conventional electron tube - and it takes up less space, requires less energy and is more reliable. Because of its advantages of size, power and reliability, the transistor is making possible complex electronic systems which were impossible before. For example, the Bell System's Telstar satellite contains only one electron tube, but has 1,064 transistors and their offspring, 1,464 diodes and 3,600 solar cells. Transistor electronics have progressed in 10 years beyond the vacuum electronics of 50 years. (Washington Star)

\*\*\*\*NEW PRODUCTS--- An anti-static polish for plastic surfaces is being marketed by General Electric which does more than clean and shine. It also neutralizes dust-attracting static charges in such things as plastic surfaced TV screens and meter faces. TV screens often get a coating of static-attracted dust that makes viewing an eye-straining ordeal, while a charged meter case may attract the needle enough to give an incorrect reading. The makers also claim the polish removes minor scratches from a TV screen or plastic cabinet. The cost is 75¢ for 8 ounces. (Wash. Daily News)

SHORT NOTES--- The power shortage which occurred in Czechoslovakia last month was so severe that Radio Prague had to slash its broadcasting time in half, Vienna dispatches said. ----- The British Broadcasting Corp. gets most of its operating funds from license fees on household radio receivers. (I believe the fee is about \$2.25 a year) Skinny Screen Television--- Army missile engineers have developed a tiny television camera only three inches wide to track space objects automatically. The midget transistorized camera, weighing only seven pounds, is part of a system to predict the impact of space vehicles.

\*\*\*SPECIAL TO NASA\*\*\* ATLANTIC MISSILE RANGE COMMUNICATIONS--- This subject may seem simple at first, until you consider the vast area to be covered and the fact that as many as 4000 people may need be told the same thing at the same time from Cape Canaveral to South Africa, in the air, at sea, and all points in between. The range uses virtually every type of communications system, the heart of which is a cable running along the ocean floor from Cape Canaveral to Antigua, which stops at the stations along the way. Twelve channels of information can be sent along this cable, including timing and telemetry in the form of "beeps", as well as teletype and voice. Radio, of course, is used to reach stations not connected to the cable. "MOPS" on the missile range are not things to swab the decks, the Missile Operations Phone System is the unique system on the range that has over 4000 sending and receiving sets. Each station on the range has a dial telephone system and several different intercom systems. Phones are different colors; each color indicates a special/specific purpose. Red- which are used for aircraft crash notification in the Air Force-are used on the range for emergencies such as missile destruction; Green are used to transmit information about missile functions, also are used by the security force at Cape Canaveral. From the Cape or Patrick Air Force Base, any station, plane or ship on the whole Atlantic range can be dialed. Since information on a fast moving missile may come from many different locations at the same time, it is vital for the missilemen at the test center to have all their instruments synchronized as accurately as possible-within a thousandth of a second. The U.S. Bureau of Standards broadcasts America's standard time signals from its radio station WWV; This is picked up and sent down range to Canaveral accurate to one two hundred-millionth of a second. (A two-hundred-millionth of a second is almost impossible to imagine. An interval this long is four million times faster than the shutter on a box camera!) In fact, the signals sent down range to set the instruments are sent down a 200th of a second early, so that each station along the way can allow for the time it took the signal to arrive traveling at the speed of light! (Many Thanks for this most interesting information to Lt. Walter Ryland, information officer at the Air Force Missile Test Center, Cape Canaveral; Via BILL EDDINGS - Many Tnx Bill! )

\*\*\*TELSTAR & RELAY NOW BEEPING--- Scientists got Telstar beeping again on Jan. 4 and then coaxed Relay to responde to signals. Several transmissions have been made and the signals received in Europe were as good as ever. Telstar had been out of operation for six weeks. Engineers of the Bell Telephone Laboratories diagnosed the trouble, blamed on radiation, and found a way to restore normal operation. In essence, one transistor in Telstar's command decoder was running an electrical fever, refusing to act to commands. The remedy was a trick code, analogous to an aspirin, which cut off the electrical fever. W.C. Hittinger of Bell Laboratories said Telstar had encountered radiation in the Van Allen belt 100 times greater than anticipated. This caused an ionization in one transistor, particularly in the decoder which receives and acts on command signals from the ground. (Washington Star)

\*\*\*NEW PORTRAITS OF SUN--- Detailed radio pictures of the sun will be taken by a radio heliograph soon to be built in Australia. The instrument will consist of 100 saucer-shaped aeriels, each 42 feet across, arranged in a circle two miles wide. Its radio pictures are expected to give information about the giant explosions and storms that occur in the sun. These solar storms disrupt radio communications throughout the world. (via Editor Ron Luyster from Popular Mechanics, also Skinny Screen TV)

JUST RECEIVED--- From Thomas Bispham K3PWL; The Episcopal Academy, located at City Line Avenue & Berwick Road, Overbrook, Philadelphia, Penna., will have an exhibit dealing with radio. One exhibit is on SWLing. It will be conducted by the Episcopal Academy Amateur Radio Club-K3RYE, complete with an AR station operating! Tom will be conducting the exhibit on SWLing and wants to see all of you OM's in the Philadelphia area at the exhibit. The date is MARCH 5-8 1963 The exhibits are located in the old gym. Time: Mon.-Wed. 8am to 5pm ; Thurs. 8am to 9pm ; Fri. 8am to 3pm . Times are local EST. (So all of you OM's in that area make it on by there and give Tom an eye-baller Hi!)

Send news items to me: 305 Jefferson Ave., Alexandria, Va.

That's it for this month. I'll be expecting a report from YOU for next month-just write it down, typ it, or cut it out and mail it - that's all you do!



MASS'ETTES	WPELIW	Gene Molter, 10 Hawthorne Ave., Needham, Mass.	A,H,R,*
	WPELCIH	Ernie Zecchini, 381-A Hampshire St., Lawrence, Mass.	A,P,R,U,*
	WPELDGF	Chuck Phelan Jr, 253 Reed St., New Bedford, Mass.	C
MICHIGAN	WPE8DGC	Larry Bassett, 4419 Elmwood, Royal Oak, Michigan	A,*
	WPE8AFO	Jeff Stover, 25274 Kildare Road, Southfield, Mich.	A,C
MINNESOTA	WPEADY	Rick Olson, 1005 First St. N.W., Rochester, Minn.	H
	WPEBPH	Warren Anderson, 1424 Quince St., Brainerd, Minn.	A,C,H,*
MISSISSIPPI	WPE5BW	Gene McGahey, P.O.Box 206, Isola, Mississippi	A,*
MISSOURI	WPECKU	Cecil Waugh Jr., 2317 S.16th Street, St. Joseph, Mo.	A,*
	WQ-SWL	LeRoy Cleaver, 1105 E. Second Street, Joplin, Mo.	A,F,*
NEVADA	WPE7BEX	Earle Fisher, 1412 Piper Ave., N. Las Vegas, Nevada	A,C,*
NEW HAMPSHIRE	WPELENI	Pete Howatt, Highland Road, Atkinson, New Hampshire	A,G,*
	WPELDYH	Dave Vasta, Meadow Lane, Atkinson, New Hampshire	O
NEW JERSEY	WPE2HKS	Paul Bassiri, 1 Washington Avenue, Morristown, N.J.	C
	WPE2IGX	Joe Insana, 3 Cornell Street, New Brunswick, N.J.	R
	WPE2EHN	Barbara Grabenstein, 514 Westview Ave., Cliffside Park, N.J.	F
NEW MEXICO	WPE5BOC	Jim Creek, P.O.Box 102, House, New Mexico	A,*
NEW YORK	WPE2GNT	Fred DeVore, 61 East Avenue, Caledonia, New York	C
	WPE2FMR	Dave Markus, 3246 Walden Avenue, Depew, New York	O
	WPE2AN	Errol Urbelis, 60 Boulevard, Greenlawn, L.I., N.Y.	A,C,G,O,P,*
NO. CAROLINA	W4-SWL	Tommy Gee, 1552 Granville St., Burlington, No. Carolina	F
NO. DAKOTA	WPEBHX	Larry Marshall, Box 291, Devils Lake, No. Dakota	A,*
OHIO	WPE8DAO	Jerry Kosch, 5321 Banbury Drive, Toledo 15, Ohio	A,C,*
	WPE8APB	Dave Truesdale, 30 Fairlane Ave., Wilmington, Ohio	H
	WPE8AA	Joe Morris, P.O.Box 3926, Cleveland 20, Ohio	A,*
OREGON	WPE7ALM	Scotty Gray, P.O.Box 37, Coos Bay, Oregon	A,C,R,*
	WPE7AFJ	Larry Miller, 1409 S.E. 60th, Portland, Oregon	A,G,U,*
PENNSYLVANIA	WPE3DYU	John Long, 626 Chestnut Street, Lebanon, Penna.	A,*
	WPE3DWS	Phil Flickinger, Route 3-Box 217, Rockwood, Penna.	A,*
	WPE3CIJ	Wayne Wisniewski, 4545 Mercer St., Philadelphia 37, Penna.	A,*
TENNESSEE	WPE4KY	Dave Hailley, 1013 Graybar Lane, Nashville 4, Tenn.	A,C,G,*
	WPE4	Odin Woodward, 2092 Evelyn Avenue, Memphis, Tenn.	O,S,*
	WPE4CCH	Ben Strand, P.O.Box 283, Dandridge, Tennessee	U
TEXAS	WPE5ATO	Lloyd Young, P.O.Box 295, East Bernard, Texas	D
	WPE5BMP	Jack Keene, 4902 Eppes Street, Houston 21, Texas	A
	WPE5AYM	Bob Stephens, 306 Sussex Avenue, San Antonio 21, Texas	U
VERMONT	WPELDNM	John Stec, 11 Upland Road, Essex Junction, Vermont	A,P,R,*
VIRGINIA	WPE4DLT	Dick Derrickson, 305 Jefferson Ave., Alexandria, Va.	A,*
WASHINGTON	WPE7ALN	John Quinn, 6756 Mars Ave., Seattle 8, Washington	A,P,R,*
	WPE7ALO	Mike Callahan, 4319 7th South, Seattle 8, Washington	R
	WPE7AZT	Dave Hanson, 4311 12th Ave South, Seattle 8, Washington	R
W. VIRGINIA	WPE8BMV	Bill Pugh, 15 Grosscup Road, Charleston 4, W. Va.	U
WISCONSIN	WPE9ETN	Bill Orth, Route 1-Box 201, Paddock Lk (Salem), Wisc.	A,M,*
	WPE9JN	Tom Mann, 1805 E. Elmdale Ct. Apt-6, Milwaukee 11, Wisc.	A,*
	WPE9EOZ	Jeff Dwarak, 604 Henry Street, Kewaunee, Wisconsin	C
	WPE9DFS	Paul Almquist, 621 Maple Street, Chippewa Falls, Wisc.	U
ONTARIO	VE3PEISM	Bob Wood, Box 67, Tilbury, Ontario, Canada	A,*
MANITOBA	VE4PELY	Stan DeWitt, 726-Sixth Street, Brandon, Manitoba, Canada	F
NEW BRUNSWICK	VELPE3L	Greg Calkin, 174 Waterloo Street, St. John, New Brunswick, Can.	F
QUEBEC	VE2PE8A	Jules Provost, 1081 Argyle Ave., Verdun, Montreal 19, Que., Can.	A,*
FINLAND	OH2PELL	Timo Lehtio, Virkby, Sunis-hagen, Finland	A,*
JAPAN	JAI-3487	via WPE7AIN, 5975 S.W. 91st Ave., Portland 25, Oregon	A,Q,*
POLAND	SP6-1039	Edward Tarka, Ziebice, Plac 15-go Grudnia 46, Poland	L
CZECH'KIA	OK1-1996	Mirek J. Pilar, Dasicka 474, Pardubice 3, Czechoslovakia	L
ENGLAND	G-7415	Art Schubert, 4 Kempton Rd., East Ham, London E.6, England	F
HOLLAND	PA0-6130	W. Waan, Sandecampaan 29, Heiloo, Holland	C,F,L,*
NORWAY	LA-M3701	Knut Lambrig Vik, Eide pr. Grimstad, Norway	F
AUSTRALIA	SWL-VK3	Mike Cadzow, 1 McPherson Ave., Carnegie, Victoria, Australia	F

Contributing Reporters: A - Name submitted directly \* - Editor  
 C - Jim Creek, New Mex. H - Dave Hailey, Tenn. P - Anne McKenna, N.Y.  
 D - Ed Drumm, Conn. L - F.Lendzioszek, Mass. Q - Neal Gregory, Ore.  
 F - Rog McNicoll, Ont. M - Tom Mann, Wisc. R - Errol Urbelis, N.Y.  
 G - Rheal Lavoie, Ont. O - Larry Marshall, N.D. S - J6hn Arthur, N.Y.  
 U - Dave Listort, N.Y. V - Warren Anderson, Minn.

(Many thanks to all these reporters, all are well known and considered most reliable!)

## NOTES AND QUOTES

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Jack Willis, VØ2NA, a new CDXC member, writes "I am only too pleased to swap cards with anyone that requires a Labrador card. I am not an SWL, but as long as my regular QSL will help, I am glad to send it along". Jack would appreciate return postage! (Our tnx to "Cadex" for this data!!).....Joe Miklas/WPE4DOE wishes it to be known that he isnt swapping anymore!.....NASA member Neal Gregory is the cardswap editor for the ENDXC which has its hq. in Jericho, N.Y.!.....LeRoy Cleaver/WØ-SWL, member of WMRC, wrote a nice letter and one thing he says more swappers should do is try and QSL more promptly!.....There still seems to be quite a few inactive/outdated names in/on various lists which are being circulated by overseas OM's. Errol Urbelis reports that many of them are from 1958 and NG whats'ever. The same holds true for "batches" of cards being sold by a few overseas OM's and although many of said cards are rare nowadays, they also have been "long-gone" insofar as current activity is concerned!.....The now defunct DXRC had a FB cardswap bureau going, but I guess it too has now gone, or is it? Anyone know?.....Two swappers have reported that Danny Dunham is not 100%, but checking with Danny himself, he says he is. (Perhaps these two OM who did not get a QSL from him, used an incorrect QRA!?).....Scotty Gray has been appointed the cardswap editor of the new FSDXC. (We will have full details about this new club in another section of next months NASA bulletin!).....There are still no reports of active swappers in Alabama, Hawaii and Wyoming!.....The new NASA club cards, sample of which you received with this bulletin, have met with much response by those who recieved them in advance. The two price ranges, \$2.20 - \$1.70 both include postage per 100 cards. When/if you order any, be sure to state the type of card stock (glossy or woodcraft) for \$2.20 per 100. The plain stock (on white) are sold for \$1.70 per 100. Any/all are FB for the price! See headquarters section for complete ordering info!.....Headquaretrs would like everyones opinions regarding these cards!!!

## - - TAPE TALK - -

Very important and good news from O. Lund Johanson, Editor-Publisher of the WR&TVH, is that it has been decided to include info/facts/data about any/all radio stations that request/accept tape recorded reports. This will begin with the summer-supplement 1963 issue of the WR&TVH and will be in all future copies of the handbook. Mr. Johanson has asked for all SWL's/DXers to cooperate by sending him any/all information they might have which might be utilized in this new addition to the WR&TVH. Please pass this info to all tape section editors of any/all clubs of which you are a member!!! It is evident that tape recorded reports are becoming more and more important these days and will be even moreso in the future. I might also mention that the new edition of "How to listen to the World", which is also published by O. Lund Johanson, will contain a chapter on basic helps/hints/tips regarding the recording of tape reports. It will be written by two NASA members working together in collaboration with WR&TVH. (Watch upcoming issues of NASA bulletins, this section, for further information along these developements!)

Well, it seems that Santa didnt keep his promise as certain OM had hoped he would; Most of those who anticipated getting a recorder from him, didnt. However, several did and they are included in the following list. All request 3" reels recorded at 3.75 ips.

Syl Lavoie	333 Church St., Ansonville, Ontario, Canada	Stelbfone
Neal Gregory	5975 SW. 91st Ave., Portland, Oregon	Concord
John Arthur	3004 Watson Blvd., Endwell, New York	Panasonic
Bill Orth	Route 1, Box 201, Paddock Lk (Salem), Wisc.	Apolec
Karl DeBlois	Steniaweg 16A, Zeist, Netherlands	Norelco
Robert Viau	P.O. Box 892, Sept-Iles, Quebec, Canada	Robuck

Scotty Gray P.O.Box 37, Coos Bay, Oregon  
 John Stec 11 Upland Road, Essex Junction, Vermont  
 Gene Molter 10 Hawthorne Avenue, Needham, Mass.

Columbia  
 Norwood  
 Wilcox/Gay

(Not all these OM are swl's, some are just tapesponders; All however are interested in acquiring new/addional tape pals. It isnt always necessary to send a card in advance of your first tape, but it IS a good idea and helps, in many instances, to clear up certain unforeseen QRM that may come about. This is especially true regarding overseas "yakkers")

A.T.R.L.: This is the Amateur Tape Reporters League and it is affiliated with ENGLAND and INTERNATIONAL, an swl club in England. Martin G. Foster, 5 Goring Road, Dagenham, Essex, England is the chairman. Martin writes that the ATRL is ready and most willing to accept members from all over the world and is also offering to cooperate in any/all ways with other tape and swl clubs. He and I have already taken steps that will afford the NASA & the ATRL/E&I inter-club relations. A few facts you may wish to know about the ATRL are: It has New's tapes, DX tapes, Music tapes, holds contests/competitions, and has recently started an swl/QSL Bureau. ATRL also has "round-robin" tapes! I should like to mention that this is the only tape club I know of that is primarily for swls and that its scope of tapes, covers almost everything an swl/DXer might want. (That is, those with recorders) Anyone desiring further detailed info, by all means write to Martin G. Foster at the QRA and QTH mentioned above. In upcoming NASA bulletins, this section, I will be passing on other ATRL news. Meantime, anyone who may like to hear certain of the tapes I will be getting from the ATRL, in exchange for various tapes I will be sending them (including a few ROF's), get your name on my list as soon as possible! "First come, first served!"  
 TAPE TIPS TAPE TIPS- - - - - TAPE TIPS TAPE TIPS

If you have trouble copying code (cw), try recording it at a speed of 7.50 ips and then playing it back at 3.75 or 1.78 ips. Even if you can read (copy) it at a fast speed, this trick will let you double check what you have heard/recorded!\*\*\*\*\*If you are new at tapesponding or if you have hesitated to give it a whilr(whirl) because you are not sure how to make a tape (what to say on it!)..just keep in mind that a tape is a "spoken letter". All you need do is speak the words you would ordinarily write. Then too, you can add segments of DX that you have recorded, or some of your favorite music. I am sure that once you have given it a try, you will be sorry you waited so long. Tapesponding is not only fun, interesting and educational, but it is also the most of FB ways to make new friends!\*\*\*\*\*Acustics-This is a very lengthy and somewhat technical subject where recording is concerned and thus I wont delve into it too seriously, at least not at this time. I will mention however, if you are doing all your recording/playing of tapes in one specific room (most likely your shack), try it, especially the playing back, in some other room(s) and note the difference in the sound (acustics). Most OM never take their recording gear out of their shack; Few have ever realized the acustical variations or affects (some for the better, some not) possible!\*\*\*\*\*Parabolic mikes-I wonder if any of you are interested in facts about these? (Other of you besides Larry Marshall!) If so let me know and if the response warrants, I'll see if Rick Roll and I can come up with a worthy article, maybe even the data on how to make one. (A homebrew parabolic mike is easier/simpler to build than you might think!)\*\*\*\*\*Details regarding tape contest will be withheld until next month so that no QRM besets the BCB contest now in action sponsored by editors Arthur/Raiche. (Incidentally, I hope they get plenty of response - They have been doing a FB job in their section and deserve many pats/plaudits!)\*\*\*\*\*Should have mentioned before; The ROF (#2) that was "missing", has now been located! It was reported by ASLWC's Tech Editor, T/SGT. Bill Gardiner. Seems Bill had been on leave when the tape arrived and thus couldnt get it mailed back promptly. By the way, anyone interested in donating a segment for the ROF, drop me a postcard for details. Thanks!!!  
 Recieved letters from the following OM who request I find pen-pals for them; Any takers?  
 Philip Cadeau, Seychelles College, Mont Fleurie, Mahe, Seychelles (age 17)....Jim Calides, Tarlabasi 113 Beyoglu, Istanbul, Turkey (age 18).....Art Escobar, 160 Allen Avenue, Cabalogan, Samar, Philippines. (age 18) Here's a chance to make some new pal. Till next month then remember, "Nobody is ever too busy to take time out to make new friends!"  
 WPE3BWL

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SHORT WAVE SECTION

NORTH AMERICAN SHORTWAVE ASSOCIATION

Richard Orcutt 1531 SW 28 CT FT. Lauderdale, Fla.  
NASA PAGE 1 FEBRUARY, 1963

This month's listings are arranged according to frequency, instead of by country. If this method receives favorable comments, it will continue in the future. You may, if you wish, still send your items by country, but please keep using GMT.

Don't forget the NASA SWBC AWARD. If you have QSLs from 50 SWBC countries (this DOES NOT include utilities) you are eligible for this award. Send me your 50 QSLs and 50¢ to cover the cost of printing and mailing. If you qualify, your award will be sent from club HQ. Of course your QSLs will be returned, whether you qualify or not. Hi Hi.

Now for the tips. Times are GMT. The following key is used:  
nx=news, mx=music, adv=advertisement, ID=identification, E=English, LA=Latin America(n), F=French, G=German, S=Spanish, P=Portuguese, A=Arabic, a=approximately, // =parallel fq., /2100=sign on at 2100, 2100=sign off at 2100, ann=announcements

- |   |      |
|---|------|
| 3325 YVKX La Voz de la Patria 0410 easily hrd in Calif  | 6DVT |
| 4600 HCAU2 R Atalaya, Ecuador, 0232, LAmx, adv.   | 4APP |
| 4770 ELWA, Monrovia, 0700-0730, BBC nx, hymns   | 2AN  |
| 4780 HI2S, Onda Musical, Santo Domingo, /0950 mx, ann   | 2AN  |
| 4815 HCFA4, La Voz de Manabi, Portoviejo, 0504 S  | 4APP |
| 4843 Radio Congo, Brazzaville, /0430 F, N. Anth., IS  | 4APP |
| 4955 HJCQ, Bogota, 0500, //3288   | 6DVT |
| HJCQ, Bogota, 0210, pop mx  | 8AD  |
| 4972 Radio Yaounde, Cameroun, 0510, strong QRM  | 6DVT |
| 5975 ZYT44, R Guaruja, Florianopolis, 2359, LA mx, P ann  | 4APP |
| 5985 R Nederland, 0130, nx-Spotlight, cl.mx   | 8AD  |
| 6000 R Americas, 0150, pop mx   | 8AD  |
| 6035 HRTL2, R Centro, Honduras, 0004, S mx, ann. Seems to be old<br>R Tegucigalpa                                   | 4APP |
| 6105 XEQM, Merida, Mexico, 0725-0757 RnR mx, adv, ann S   | 2AN  |
| 9009 Kol Isreal, 2145 organ mx, 1650 E nx.  | 8AD  |
| 9350 OAX6D, R Continental, Peru???, 2200-2220 mx, ann   | 8AD  |
| 9480 Radio Peking, 1200-1230, E nx, comm, mx  | 2AN  |
| 9498 WIBS, Grenada, 2350-0130, nx, UN pgm   | 2AN  |
| 9505 Radio Japan, 0800-0815, General Sve nx.  | 2AN  |
| HI3U, Radio Caribe, Santo Domingo, 0005, S vocal mx   | 8AD  |
| 9510 BBC, London, 2200, The World Today (rpts abt Peru)   | 8AD  |
| 9515 Unident South American, 2350, Montivani mx   | 8AD  |
| 9540 R Australia, Melbourne, /1230-1315, Eng & Viet. //11740  | 2AN  |
| 9585 RRI, Djakarta, /1100-1140, nx 1116 "Indo, in word & mx"<br>R Canada, Montreal, 2215, songs from here and there | 2AN  |
| 9590 KGEE, San Francisco, 0700, rel pgm   | 8AD  |
| 9610 VIW9, Perth, Australia, 1100-1200, nx, mx, play  | 6DVT |
| 9710 WLWO, UN Radio, 0715-0730 E nx //6045  | 2AN  |
| 9725 BBC FES, Singapore, 1030-1116 Indo 1030-1100, nx 1100  | 2AN  |
| 9745 HCJB, Quito, 0315, gud sig w/much QRM  | 6DVT |

9760 TGWA, Guatemala City, 1340, pop mx	8AD
9770 4VEH, Cap Haitien, 2230-2320, S till 2300, Fr 2300	2AN
9945 Radio Peking, 0100, E to NA	6DVT
11672 Radio Pakistan, Karachi, 1335-1350 E dict nx	2AN
11740 Radio Vatican, 0130-0145 S nx & talk to NA	2AN
11775 ZYZ28 R Mayrink Veiga, 2230-2300, "A Voz do Brazil"	2AN
11780 Radio Japan, 2330-0000, Jap mx, nx, //11705, 15135	2AN
11785 WINB, Red Lion, Pa., 2215-2245, mailbag pgm	2AN
11925 ZYR78, R Bandierantes, after 2300, QSLs w/card & pennant	6DVT
15240 KGEI, San Francisco, 2330-0000, Back to the Bible	2AN
21470 BBC, London, 1100, E nx	8AD

2AN- Errol Urbelis, Greenlawn, LI, N.Y.

6DVT- John Ball, Arcadia, Calif.

8AD- Lavoyd Kuney, Detroit, Mich.

4APP- Your editor

When listing the times you heard the station, if it is a s/on or s/off time please indicate which. Usage of call letters, if any, would also be appreciated.

Here is the sked of Radio Peking received here recently:

To G.B. & W Eur- 1900-2000 and 2030-2130 on 5880,6210,7080,7115,9457  
 To ENA- 0100-0200 and 0200-0300 on 7480,9480,9945,11780,11945,11975  
 To WNA- 0300-0400 and 0400-0500 on 7080,9457,11715,11820,15060,17745  
 To Aust & NZ- 0830-0930 and 0930-1030 on 11650,12055,15060,17835  
 To SE Asia- 1200-1300 on 1190 (MW),7480,9480,11800,15060  
 To Ceylon, India, Nepal & Pakistan- 1400-1500 and 1500-1600 on 7060,7350,9480,9660,11685,11740. And from 1600-1700 on 1190 only.  
 To S. Afr- 1600-1700 and 1700-1800 on 6125,7350,9595,9775,12055,15095  
 To W. & N. Afr- 1800-1900 on 6125,7180,7350,9595,9785,12055  
 To W. Afr- 2130-2230 on 5950,6080,7270,7480,9510,9570.

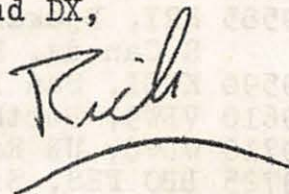
These are English xmsns only.

Radio Sweden reports the following English xmsns of R Ghana:  
 On 11800 at 1830-1915 and 2050-2135, on 6070 at 1445-1530, 1700-1745, 2000-2045, 6070 and 9545 at 2130-2215, on 15190 at 1400-1445, on 15287 at 2000-2045, on 17910 at 1445-1530 and 1630-1715, and on 21545 at 1445-1530.

We now have more than 90 members but still only about 3-4 reporters for this section. How about swampin' me with mail for the March Bulletin? I'll make the deadline for the next section as February 13.

73s and gud DX,

Rich  
WPE4APP



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HAM BAND SECTION

NORTH AMERICAN SHORTWAVE ASSOCIATION  
Lavoyd Kuney, Editor 7618 Beaverland Detroit 39, Michigan

NASA

Page one

Feb. 1963

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Time - 24 hour GMT Deadline 10th each month.

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"THIS IS BE NICE TO 'MIKE SERDY' MONTH"

Mike serdy, WPE3BSI, has run up an impressive record of Ham band DX at the age of 16. Mike has heard 162 countries and verified 118, also verified 40 states. His receiver is a Knight R-100, antennas are an 80 ft doublet and an 80 ft. long wire.

Mike is an editor also. He is doing a great and wonderful job with the Ham section of the Worldwide Monitors Radio Club (WMRC), while attending North High School of West Mifflin, Pa. He is a treasured member of NASA, NNRC, and ISWL as well. He is sporting an unusual new SWL card and would enjoy hearing from other SWL's, so lets swamp Mike with letters during the month of February. If you can include any news items he can use in his Ham section, I'm sure he will be grateful for your thoughtfulness.

Remember this is be nice to Mike Serdy month. (His QTH is 1804 Maine Street, Duquesne, Pa.)

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"STARS SHINE ON W8WT"

Lester A Jeffery, W8WT, better known as Les to his friends, is an avid DX'er, always on the lookout for a new country or prefix. Les has the distinction of having the first WPX Phone award. He is proud, and rightly so of his certificate bearing the number "1". Les started his DX'ing in 1957, and now has worked 268 countries, 250 of them on phone as for his WPX score it is now over 560.

Having been off the air for several months during the last year, Les lost out on a lot of good DX items, as he was moving and getting settled in a new QTH. His equipment now consists of a KWS-1 with a 32V2 and a Hy-Gain tribander up 65 ft., the receiver is a 75A4. But more than the impressive DX totals he has, I think his great number of certificates and awards makes him one of the most outstanding Hams of this era. Les has achieved over 360 awards in his 5 years of DX'ing. I paid him a visit in August 1960 and at that time he had less than 100.

Also, Les is a "SWL's" friend! He will help any SWL with their problems and will QSL to a SWL, giving a correct and sincere report. One remark he did make and I think it should be repeated, "Whenever you ask any Ham, local or DX, for their QSL, be sure to give a complete and honest report and always include return postage and a self addressed envelope".

So with pride I am happy to write this little item about Les, as I consider him to be a great credit to the Ham fraternity, and I'm proud to say a good and helpful friend to me. "Let The Stars Shine On W8WT"

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"abc's of Short Wave Listening"

A new book by Len Buckwalter, "abc's of Short Wave Listening", has just been published, first edition, first printing in Nov. 1962. Copyright by Howard W. Sams and Co. who also publish Sams Photofact. This is a wonderful new book for the beginner, as well as the oldster. It has nine chapters on SWL Hobby, The Signal, Ionosphere, SW Receiver, Antennas, Chasing DX, Space Signals, Maintaining your Receiver, QSL and verification info, time charts, SWBC listings, Ham band freqs. Also a section on citizen band and operation. I have this book now, having read it, I treasure it as one of the best sources to get information about SWL'ing. I really believe anyone who does obtain it will enjoy it. (8AD)

Tony Kjeldsen-WPE7BHV, 934 W. 15th St. Spokane 41, Washington, now has his Novice license, KN7VNT, he will be working 3719, 7170, 7058 and doubling to 15 and 2 meters, using a Globe Chief. Would appreciate hearing from anyone hearing him.

Worked All U.S. Districts.

A very attractive 8½ by 11 certificate, orange border, light brown center with black printing, now available to SWL's. One QSL from each of the 10 U.S. districts. This is awarded by the Horseshoe Radio Club, QSL's and 50 cents go to W3KQD, 2117 Third Ave, Altoona, Pa. This is an easy award to get and I treasure mine, No. SWL 5. (8AD)

Dark Eyed Queens Award.

W9GME, K9JDE, K9CMZ, K9CQF, K9OSS, K9LIW, K9LYG, K9PDS, K9UHD, K9JVL K9GUB, charge 10 cents, 5 QSL's needed, send to- Chicago YLRL .c/o Lillian Rochell, 3638 Ruby St. Franklin Park, Illinois.

The "Half Century Club"

This certificate is available to SWL's as well as Novices, for 50 countries confirmed. Send list of countries certified by 2 Hams, 1 an officer of a club, to P.O. Box 73, Hampton Va.

Get That DX.

If after tuning around the ham bands and hearing nothing that sounds like DX, start looking for some of the locals, which you know chase DX. There are certain Hams you can depend upon to work DX if there is DX. About 7 times out of 10 you can hear the same station that they contact. In my case I watch for W1AOL, W1ONK, K1MOD, W2VCZ, W3AYD W4BZ, W4OPM, K5MDX, W5KBU, W8END, W8TTN, W8WT, W8UAS, W8KVT, KØRAL WØUUV, VE7ZM, CX2CO, PY2CK, and many others that I have learned are interested in DX or talking about it to each other. I find that I can hear almost 100% of the DX that the W8, W4, and W5's are working about 70 % of the stations WØ, W1, W2, and W3's are working and about ½ the DX that VE7ZM, CX2CO and PY2CK hears.

So follow the DX'ers, you will soon learn which ones in your locale bear watching. Good Luck. (8AD).

New Receiver

Lafayette Radio has announced a new receiver, that will be available after March, 1st, 1963. Known as the HE-80. A 14 tube featuring product detector, crystal calibrator, separate BFO and Q multiplier and many more features, full coverage plus 6 meters. (Lafayette catalog 633)

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## DX Reports

Call	Country	Freq.	Date	Time	By
VP2SY	St. Vincent	7 Mc. F	Dec 29	1102	WPE3BSI
HH2RS	Haiti	7 Mc. F	Dec 29	0445	WPE3BSI
YV1AN	Venezuela	7 Mc. F	Dec 29	0444	WPE3BSI
UA1KBW	Russia	14--- S	Dec 9	1250	WPE3BSI
PY4OY	Brazil	14--- S	Dec 27	0033	WPE3BSI
CX9BA	Uruguay	14--- S	Dec 27	0135	WPE3BSI
ZS3S	S.W. Africa	14--- S	Dec 29	2124	WPE3BSI
ZS9G	Bechuanaland	21--- F	Dec 23	1900	WPE3BSI
YV5AJK	Venezuela	21--- F		1615	WPE0BBF
YV2DW	Venezuela	21--- F		1545	WPE0BBF
HK7YB	Colombia	28--- F		1425	WPE0BBF
OK1ADP	Czechoslovakia	14277 S	Dec 26	1230	WPE8AD
CP5EA	Bolivia	14310 S	Dec 26	1243	WPE8AD
OA4CV	Peru	14312 S	Dec 26	1245	WPE8AD
VP6SS	Barbados	14160 F	Dec 26	1405	WPE8AD
4X4IX	Iseral	14304 S	Dec 26	1440	WPE8AD
G3LB	England	14330 S	Dec 26	1520	WPE8AD
DJ6QB	Germany	21233 F	Dec 26	1702	WPE8AD
CR7AQ	Mozambique	21187 F	Dec 31	1830	WPE8AD
CR7DZ	Mozambique	21180 F	Dec 31	1835	WPE8AD
ZS6WS	S. Africa	21195 F	Dec 31	1855	WPE8AD
ZS6IO	S. Africa	21215	Dec 31	1900	WPE8AD

QSL's received. 5B4GT, 60LWF, PJ5MC, VP2LS (new countries underlined. HIC 162, VIC 118, HPX 300, VPX 126, VIZ 30, (WPE3BSI)

SV1AR, VR5AR, DL9PF, GM3JDR, XE2RE, HIC 213, VIC 181, (WPE8ADO

Bill Harris GW2PELD reports. "I heard my 99th country on the Ham bands, ZD1AB, also heard 9G1EE, 9G1DP, IT1ZGI (all on 21 mcs.) also pulled in SV1YY and YV7AW on 7 mcs. all CW except the YV. GW2BOU will definately QSL %. He works all bands with 40 watts, soon to be 150 w. (via WPE3BWL)

Detlef Schuler, DM1PE1AK. Was the first overseas member to report many thanks and please contine. He is using a 7 tube superhet, with a 20 meter windom antenna, listens to 15,20,40 and 80 meters. He has QSL's from 48 countries, the latest being 9L1HB, also has the HEC and HADM awards.

He gives this DX information.- 5R8CM will make a expedition to the Comoro Is in 1963, VS1FJ is planning a trip to Christmas Islands in 1963.- CR8AB in Timor is now SSB,- Active on 15 meter CW, TU2AP HL9KH, ZD6GA, 5X5IU, and FB8ZZ. On 20 meter CW,- 9G1DV, OD5AX VQ8AI, JTLKAA, and UA1KAE/1. (DM1PE1AK)

Reunion Island - Operation by Gus, W4BPD, starting on the 24th of January. Watch 14125 kc SSB. (WPE3BSI)

VS9MB, Maldives,- Now operating on 14110 SSB, usually from 1200 GMT over long path (WPE3BSI)

5X5IU, Uganda,- Heard on 14128 SSB recently (WPE3BSI)

VS9APH,- Has returned to the United Kingdom, is now GW3IEQ, QSL's handled by W3HQ0 (QST)

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For those in our ranks who do not understand all the abbreviations I use in this section, here is a run down.

VIC - Countries verified	HIC - Countries heard or logged
VPX - Prefix verified	HPX - Prefix heard or logged
VIZ - Zones verified	HIZ - Zones heard or logged
VAS - All - All states verified	HAS - All states heard
VAZ - All zones verified	HAZ - All zones heard
VIS - States verified	HIS - States heard
GMT - Greenwich Mean Time	SWL - Short Wave Listener
DX - distant station	IRC - International Reply Coupon
Freq. Frequency	QSL - Verification card or letter
kcs - kilocycles	mcs - megacycles
RX - Receiver	WX - Weather
Ant. - Antenna	SSB - Single side band
F or P - phone	CW - Continuous wave
SASE - Self addressed stamped envelope	
SAE - Self addressed envelope	

A few more may be added to this list from time to time (WPESAD

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Jordan . IT1TAI and IT1ZGY are planning a DXpedition to Jordan as JY2TAI, W4VPD will act as their QSL manger

VP4's . Hams in Trinidad and Tobago, now have a Post Office Box. It is P.O. Box 756, Port of Spain, Trinidad.

VP8EG. Who was active from South Orkneys a few month ago, is on his way to South Georgia, where he will stay for about a year.

QRA-QTH.

VP5BL to W3AYD	VP7BP - to W2CTN
OA4CV to Box 538, Lima Peru.	EL6A to Box 44, Monrovia, Liberia
ZM6AB to K8RTW	OA9F to P.O.Box 538, Lima Peru
ET3RC to K1KOM	60IND to W4KUA
VR5AC to Box 40, Singapore	KV4CY to Box 1767, St Thomas, V.I.

(CQ, QST, 8AD, Callbook)

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One late report, I will include as much of it as possible with the space I have- John Cull-WPE1CQG, 71 Bates St. N. Abington, Mass.

KP4AJY	Puerto Rico	21339 F	Jan 1	1945	WPE1CQG
KP4BLR	Puerto Rico	21409 S	Jan 13	1624	WPE1CQG
HH2TK	Haiti	21421 S	Jan 13	1419	WPE1CQG
KP4AYP	Puerto Rico	21357 F	Jan 13	1630	WPE1CQG
XE1EK	Mexico	14128 S	Jan 13	1640	WPE1CQG
HH2JH	Haiti	21210 F	Jan 13	1650	WPE1CQG
HH2CE	Haiti	21245 F	Jan 13	1654	WPE1CQG
VP7NT	Bahama Is.	21243 F	Jan 13	1834	WPE1CQG
HC1FG	Equador	21415 S	Jan 13	1818	WPE1CQG
YV1HB	Venezuela	21200 F	Jan 13	1841	WPE1CQG
HPLAP	Panama	14200 F	Jan 13	2242	WPECQG(1)
OA4PX	Peru	14282 S	Dec 31	0449	WPE1CQG

Nice log you sent John, sorry it was to late so I could include it all, my deadline is 10th each month, I start my stencil cutting on the 11th if possible.

*Handwritten signature*

NORTH AMERICAN SHORTWAVE ASSOCIATION  
MEDIUM WAVE SECTION

John T. Arthur, Ed. 3004 Watson Blvd. Endwell, New York  
Steve Raiche, Asst Ed. 20 Oak Bluff Circle East Longmeadow, Mass

FLASH\*\* What a way to start a section, you say? Well, we feel that it is well worth it this month. We want to start by listing the NASA MWDX programs coming up this month. They are:

Feb. 4 - KDBM- 800, Dillon, Montana 1000 watts 0230-0300 EST  
Feb. 11 - KSYX-1420, Santa Roas, N.M. 1000 watts 0300-0330 EST  
(To convert EST to GMT, add five hours.)

Other DX programs are on:

Feb. 11 - WNOH-1550, Raleigh, N. C. 1000 watts 0430-0500 NNRC/test  
Feb. 18 - CBN - 640, St. Johns, Nfld., 10000 watts 0400-0500 NNRC

We hope to have more of our own in the near future, but these are the only ones that have confirmed the programs. Hope you tune us in. KSYX is in the contest range, and during the contest dates, and it is an FB DX catch for most of us, so we hope you tune us in. The program is taped.\*

We might mention here that there was such an out-cry against the use of GMT in the MW section that we have abandoned the idea. For a few days there looked like the possibility of a mutiny within our ranks and all, so you may go to bed to-night assured that we will stick to EST. (You members in Eurpoe, just add five (5) hours to any time you see in this section.)\*

--MW EXTRA--

Steve seems to be having some trouble lining up the features, so we are doing this one again this month. We were unable to get a reply from WPOR, so letters are out to WJAB and several others. This month we fill in with WENE.\*

WENE operates on 1430 kc., from Endicott, New York, with 5000 watts, 18 hours per day. They sign on at 0530 and sign off at 2400 EST, all year long. The present facilities are a Gates BC-5B transmitter, running into 5 200 foot antennae in a straight-line array. During the day, they operate by remote link from their studios on Main Street, Endicott, to their transmitters on Pierce Hill, Vestal. After local sun-down, they use an array which is more directional than most MW broadcasters use, and beam their signal to the North-East.

WENE originally signed on the air in 1947 on 1450 kc. with 250 watt of power. In May, 1951, they changed over to their present frequency and power. From 1957 until 1962, they were a "good music" station, but in August, 1962, they switched to their present pop music format. They are a popular station in this area, and evidently get their signal out fairly well.

In a phone-call to Jack Fischler, their CE, we asked about reception reports. He said that they averaged about 4 or 5 a week, and frequently get them from Great Britian and Sweden. He figured that their best was from Australia, and that is pretty good, when you consider that their signal was traveling on the long path.

They will verify all correct reports, so send your reports to:

Jack Fischler-CE  
Radio Center - WENE  
909 East Main Street  
Endicott, New York

Local personalities are: DJs- Bob Muleski, Don Davies, Johnny Cheslo  
Al Pierce  
Program Director- Sam Page

Best of luck with this one. Have you hrd them yet??

By the time you read this, the MW contest will be in full swing. May we remind you that it runs from January 15th at 0000 EST to February 15 at 0000 EST. You may log stations of any power, and at any location, at any time, during any day of the contest. There is no time limit, and no maximum of stations logged. However, may we interpose that any discrepancies in the logs will result in immediate disqualification from the contest. As much as we believe in being friendly, we cannot tolerate dishonest DXers. We don't expect any such occurrences, but just in case anyone thought about it, forget it. The logs should be sent to STEVE RAICHE -- not to myself. DO NOT tabulate your own scores, as he wishes to take care of it, and you may make a goof which would make for a lot of extra work. Those of you who have to put up with 200 or 300 watt stations in your log, don't worry. Just round off to the nearest listed power. Thus, anything under 100 watts would be counted as a 100 watter, while 200 and 300 watters would be counted as 250 watters and 400 watts would be as good as 500 watts. (If it were only so in broadcasting. HI!)

Please, PLEASE, use EST in your logs. Europeans, deduct 5 hours from each listing. And use the 24 hour system, as we use here in the section.

Set up your logs as follows:

DATE TIME CALL QTH kc. POWER Distance from QTH (to nearest 100)

Also mention your receiver type, and the number of tubes. This is all most important to the scoring of the contest.\*

PRIZES will be in certificate form, and they are FB. Prizes will be given for first, second, AND third place winners. Steve Raiche and ourselves decided to enter the thing ourselves, but should we win, we will cede the certificate to the next place winner. We will be eligible for second and third places, however. Winners will be listed in this section AS THEY ACTUALLY PLACE!! Thus, you may see Raiche as #1 winner, but as #2 certificate winner. Dig??\*

We might also mention, in connection with the contest, that if you would like your log returned, you must enclose return postage. Otherwise they cannot be returned. If you want a copy of the log, but you cannot afford the return postage, make a duplicate copy. We regret to say that we cannot afford to return all of them ourselves.\*

WMHI-1370, Braddock Heights, Maryland, has an FB DX program every Monday AM. They are a daylight station, operating with 500 watts DA-D, and the CE, Pryor Neuber, JR., says that he does the programs "through the grace of the FCC and the station management". He signs the station on at the following times: 1st Mon of month - 0400, all other Mondays at 0445 EST. They swing into regular programming at 0500. They verify on their letterhead, but QSL cards are on order. Reports should be sent in duplicate, and return postage should be enclosed. Their QTH is:

Pryor Neuber, Jr. ATD, Radio Station WMHI, Route 5, Frederick, Maryland

Say, do you want to invest that extra cash in an FB MWDX club? Then the NRC is for you. The National Radio Club is a 100% MW club, and does a real FB job of putting out a bulletin. They give you 34 bulletins per year, and innumerable DX programs, lots of QSL info, and etc...., all for only \$4.00 per year. You definitely cannot get more for your MWDX dollar! We have to admit that we are not a member yet, but as soon as we can scrape up the \$4.00, we're in. See you there!\*

! DEADLINE -- FEBRUARY 10th

! DEADLINE -- FEBRUARY 10th !

By the way, the QTH of the NRC is: Box 63, Kensington Station, Buffalo, New York. The name there is Ray B. Edge, and he is the Executive Secretary of the club. He handles all the membership details, etc..

More QTHs. For reporting to the NASA DX programs, use these QTHs:  
 KDBM, P.O. Box 950, Dillon, Montana  
 KSYX, P.O. Box 506, Santa Rosa, New Mexico  
 And again, good luck.\*

MW ~~QTH~~ SCOREBOARD-- The following is a tabulation of DX standings as reported to us.

	hrd/veried	states/countries	best DX
S. Raiche-	540/210	37/?	KCGM
J. Arthur-	462/50	28/4	KXLY
R. Derrickson-	110/2	1/0	?

We would like to be able to list your results, but you will have to splurge on a postage stamp and send them to us. See you here next month?

Radio Moscow relays the North American Service on 930 and 998 kc from 2000-0100 EST. Other R. Moscow outlets are: 1403kc-Estonia; 1349kc-Latvia; 1142kc-Kalingrad; 1124kc-Leningrad III; 1106kc-Vilnius II; 1070 kc-Ukraine; 1034kc-Tallinn I; 1034kc and 1106kc are 100Kw, others are 20Kw. 1430kc is // 1115kc w/D.P.S.-the real voice of information and education. This is a clandestine station located in East Berlin. Sked runs 1730-1800EST. This figures, as 1430kc is also the new frequency for Radio Berlin International. 962kc-Tunis BC System w/ 100Kw, sked 1700-1800EST in English. (info via BILL HARRIS.)\*

CURRENT STATION REPORTS-- Again we try a new format. We would like your opinion of each of the experimental formats, and why you like or dislike them.  
 All times are EST!! (Add 5 hours for GMT.)

- 540 - none
- 550 - KTSA-San Antonio, hrd 0150-0215 w/ mx/ID/nx. (Marshall)
- 560 - KLZ-Denver, hrd 0125 w/ nx/ID/mx. Gud sig. (Marshall)  
 WIND-Chicago, hrd 0200 w/ ID/nx/mx. (Marshall)  
 WIS-Columbia, S.C. hrd 1830 w/pgrm about Cuban Prisoner return fm NBC. (Arthur)  
 WQAM-Miami, Fla. hrd 0315 w/ ID/mx. (Arthur)
- 570 - none
- 580 - none
- 590 - WOW-Omaha, Nebraska, hrd 0800 w/ ID/nx. (Marshall)
- 600 - none
- 610 - KDAL-Duluth, Minnesota, hrd 0214-0235 w/ mx/ID. (Marshall)  
 WLSL-Roanoke, Virginia, hrd 1910 w/ fair sigs. (Derrickson)
- 620 - none
- 630 - CMQ-Havana, Cuba, hrd 1820 w/ mx. (Arthur)
- 640 - none
- 650 - none
- 660 - CMCU-Havana, Cuba, hrd 0150 w/ mx. (Arthur)
- 670 - none
- 680 - none
- 690 - KHEY-El Paso, Texas, hrd 0808 w/ ID/wx/mx. (Marshall)
- 700 - none
- 710 - WHB-Kansas City, Kansas, hrd 0141-0155 w/ mx/nx/ID. (Marshall)
- 720 - none
- 730 - WOHS-Shelby, N.C., hrd 1500 w/ ID/nx. (Arthur)

- 730 - CMCA-Havana, Cuba, hrd 0200 w/ mx. (Arthur)  
 740 - none  
 750 - WSB-Atlanta, Georgia, hrd 1800 w/ nx/ad/wx/sports. (Marshall)  
 KMMJ-Grand Island, Nebraska, hrd 1745 w/ sports/nx/wx/s-off at  
 1800. (Marshall)  
 760 - none  
 770 - none  
 780 - none  
 790 - WWNY-Watertown, N.Y., hrd 1450 w/ ID/mx. (Arthur)  
 CMCH-Havana, Cuba, hrd 1815 w/ mx. (Arthur)  
 800 - WSVS-Crewe, Virginia, hrd 1600 w/ ID/nx/wx. (Arthur)  
 WKDN-Camden, N.J., hrd 1610 w/ ID/mx. (Arthur)  
 WDSC-Dillon, S.C., hrd 1712 w/ wx/ID/mx/s-off. (Arthur)  
 XELO-C. Juarez, Chihuahua, hrd 0210 w/ mx. (Arthur)  
 810 - none  
 820 - none  
 830 - WCCO-Minneapolis, Minnesota, hrd from 2030 w/ gud sigs. (Arthur)  
 840 - none  
 850 - none  
 860 - none  
 870 - WKAR-East Lansing, Michigan, hrd 0813 w/ wx/ID/mx. (Marshall)  
 880 - WCBS-New York City, hrd 0300 w/ ID/nx/mx. (Marshall)  
 890 - WHNC-Henderson, N.C., hrd w/ mx until s-off at 1700. (Arthur)  
 900 - WKYW-Louisville, Kent., hrd 1700 w/ CBS nx/ID. (Arthur)  
 910 - KALL-Salt Lake City, Utah, hrd 0309-0332 w/ mx. (Marshall)  
 920 - KXLY-Spokane, Washington, hrd 0250 w/ mx/nx/ID/wx/s-off. (Arthur)  
 CKCY-Sault Saint Marie, Ont., hrd 0300 w/ mx/ID. (Arthur)  
 930 - WPAT-Patterson, New Jersey, hrd 0230 w/ nx/wx/ID/mx. (Arthur)  
 940 - KVSH-Valentine, Nebraska, hrd 0925 w/ wx/nx/ID. (Marshall)  
 WINZ-Miami, Florida, hrd 0242 w/ mx. (Arthur)  
 WMAZ-Macon, Georgia, hrd 1717 w/ wx/ID/mx. (Arthur)  
 950 - KIMN-Denver, Colorado, hrd 1930 w/ ID/mx. (Marshall)  
 960 - ZFBI-St. George, Bermuda, hrd 0240 w/ mx/ID. (Arthur)  
 CKWS-Kingston, Ont., hrd 1700 w/ nx/wx/ID/mx. (Arthur)  
 \*940 - KFRE-Fresno, California, hrd 2159 w/ mx/nx/wx. (Gregory)(Sri, OB)  
 970 - WEBR-Buffalo, N.Y., hrd 2330 w/ poor sigs. (Derrickson)  
 WWSW-Pittsburg, Penna., hrd 2330 w/ QRM fm WEBR. (Derrickson)  
 980 - KSVK-Richfield, Utah, hrd 0855 w/ ID/nx/wx. (Marshall)  
 KMBC-Kansas City, Kansas, hrd 0216 w/ "First Family". (Marshall)  
 \*920 - CJCH-Halifax, N.S., hrd 1908 w/ pop records. (Harris)  
 \*930 - CJON-St. John's, Nfld., hrd 1930 w/ ex sigs. (Harris)(Sri, OB.)  
 990 - none  
 1000 - WHWB-Rutland, Vermont, hrd 1530 w/ ID/nx/wx/mx. (Arthur)  
 WCFL-Chicago, hrd 0715 w/ gud sigs. (Derrickson)  
 1010 - CBX-Edmonton, Alberta, hrd 0015 w/ CBC New Years Party. (Gregory)  
 1020 - none  
 1030 - none  
 1040 - WHO-Des Moines, Iowa, hrd 0720 w/ ex sigs. (Derrickson)  
 1050 - CHUM-Toronto, Ont., hrd 0220 w/ mx/wx/ID. (Arthur)  
 1060 - WHFB-Benton Harbor, Michigan, hrd 0715 w/ s-on/mx. (Marshall)  
 1070 - WKOW-Madison, Wisconsin, hrd 0040 w/ mx/nx/s-off. (Marshall).  
 1080 - none  
 1090 - XERG-Nuevo Laredo, Mexico, hrd 2200 w/ "World of Tomorrow".  
 (Gregory).  
 1100 - none  
 1110 - WBT-Charlotte, N.C., hrd 1845 w/ gud sigs, no QRM. (Derrickson).  
 1120 - none  
 1130 - none

- 1140 - none
- 1150 - KSAL-Salina, Kansas, hrd 0830 w/ ID/nx. (Marshall)  
 WIMA-Lima, Ohio, hrd 2050 w/ mx/ID/anmt/mx. (Arthur)  
 WDEL-Wilmington, Delaware, hrd 2100 w/ NBC nx/mx. (Arthur)  
 CKOC-Hamilton, Ontario, hrd CBC nx/cmtry. (Arthur)
- 1160 - WJJD-Chicago, hrd 0725-0733 w/ mx/nx/wx/ID. (Marshall)
- 1170 - KVOO-Tulsa, Oklahoma, hrd 0843 w/ ID/nx. (Marshall)
- 1180 - WHAM-Rochester, N.Y., hrd 0238-0301 w/ mx/nx/ID. (Marshall)  
 VoA-Marathon, Florida, hrd 2015, w/ Spanish pgrm. (Arthur)
- 1190 - none
- 1200 - WOAI-San Antonio, Texas, hrd fm abt 2130 w/ fair sigs. (Arthur)
- 1210 - WKNX-Saginaw, Michigan, hrd 0815-0835 w/ mx/wx/ID. (Marshall)
- 1220 - WDEE-Hamden, Conn., hrd 1620 w/ ID/sports. (Arthur)  
 WGNV-Newburgh, N.Y., hrd 1630 w/ ID/s-off. (Arthur)  
 WSOQ-North Syracuse, N.Y., hrd 1630 w/ s-off. (Arthur)
- 1230 - WNOR-Norfolk, Virginia, hrd 0413 w/ ID/mx/ID/mx. (Arthur)  
 WCOL-Columbus, Ohio, hrd 0430 w/ ID. (Arthur)
- 1240 - none
- 1250 - WEMP-Milwaukee, Wisconsin, hrd 0320 w/ mx/ID/ad/mx. (Arthur)
- 1260 - none
- 1270 - WTSN-Dover, New Hampshire, hrd 2215 w/ poor sigs. (Harris)
- 1280 - WADO-New York City hrd 0324 w/ mx/ID. (Arthur)
- 1290 - KOIL-Omaha, Nebraska, hrd 0800 w/ ID/mx. (Marshall)
- 1300 - none
- 1310 - none
- 1320 - WAMP-Pittsburgh, Penna., hrd 2130 w/ poor sigs. (Derrickson)
- 1330 - WEVD-New York City, hrd 1830 w/ anmt/ID/mx. (Arthur)
- 1340 - WENT-Gloversville, N.Y., hrd 1831 w/ ad/ID. (Arthur)
- 1350 - CKLB-Oshawa, Ontario, hrd 1815 w/ wx/sports. (Arthur)
- 1360 - WBAY-Green Bay, Wisconsin, hrd 0745 w/ mx/ID. (Marshall)
- 1370 - KAST-Astoria, Oregon, hrd arnd 0000 w/ considerable QRM. (Creek)
- 1380 - none
- 1390 - none
- 1400 - WPAY-Portsmouth, Ohio, hrd 0535 w/ ID. (Raiche)  
 WHIH-Portsmouth, Virginia, hrd 0503 w/ mx/ads. (Raiche)  
 WKWK-Wheeling, W.Va., hrd 0445 w/ heavy QRM. (Raiche)
- 1410 - WHLN-Harlan, Kent., hrd 0545 w/ mx. (Raiche)  
 WKBH-La Crosse, Wisconsin, hrd 0800 w/ nx/ID/mx. (Marshall)
- 1420 - KUJ-Walla Walla, Washington, hrd 0030 w/ New Years Dance Party  
 (Gregory)  
 WTCR-Ashland, Kent., hrd 1715 w/ s-off. (Raiche)  
 WLET-Toccoa, Georgia, hrd 1727 w/ s-off. (Raiche)  
 WVOT-Wilson, N.C., hrd 1730 w/ s-off. (Raiche)
- 1430 - WBLR-Batesburg, S.C., hrd 0530 w/ s-on. (Raiche)  
 WATP-Marion, S.C., hrd 0528 w/ mx. (Raiche)  
 CKFH-Toronto, Ontario, hrd 0340 w/ ad/mx/ID. (Arthur)
- 1440 - WEZJ-Williamsburg, Kent., hrd 0500 w/ s-on. (Raiche)  
 WBUY-Lexington, N.C., hrd 1728 w/ s-off. (Raiche)  
 WQOX-Greeneville, S.C., hrd 0500 w/ s-on. (Raiche)  
 WBCM-Bay City, Michigan, hrd 0505 w/ s-on. (Raiche)  
 WGIG-Brunswick, Georgia, hrd 1800 w/ nx. (Raiche)  
 WJAB-Westbrook, Maine, hrd 0405 w/ mx/ID. (Arthur)  
 WHHH-Warren, Ohio, hrd 0450 w/ s-on. (Arthur)  
 WJLJ-Niagara Falls, N.Y., hrd 0500 w/ s-on. (Arthur)
- 1450 - WQSN-Charleston, S.C., hrd 0525 w/ weak sigs. (Raiche)
- 1460 - WPON-Pontiac, Michigan, hrd w/ heavy QRM. (Raiche)  
 WBUC-Buckhannon, W.Va., hrd 1711 w/nx/wx. (Raiche)

- 1470 - WKMF-Flint, Michigan, hrd 1805 w/ wx. Weak. (Raiche)  
 WBIG-Greensboro, N.C., hrd fair w/ mx. (Raiche)  
 WQXL-Columbia, S.C. hrd 0500 w/ s-on. (Raiche)  
 WOHO-Toledo, Ohio, hrd w/ mx/ads, much QRM. (Raiche)  
 WPOM-Pompano Beach, Florida, hrd 1730 w/ s-off. (Raiche)  
 WLAK-Lakeland, Florida, hrd 1730 w/ nx. (Raiche)
- 1480 - WDAS-Philadelphia, Penna., hrd 0445 w/ ads/ID. (Arthur)
- 1490 - WGCD-Chester, S.C., hrd 0445 w/ nx. (Raiche)
- 1500 - WTOP-Washington, D.C., hrd 2100 w/ severe QSB. (Harris)
- 1510 - WMEX-Boston, Mass., hrd 2010 w/ QSB. (Harris)
- 1520 - WKBW-Buffalo, N.Y., hrd 2047 w/ gud/fair sigs. (Harris)  
 WRSL-Stanford, Kent., hrd occasionally under WKBW. (Raiche)
- 1530 - WCKY-Cincinnati, Ohio, hrd 2130 w/ fair/poor sigs. (Harris)
- 1540 - WPTR-Albany, N.Y., hrd 2200 w/ gud sigs. QSLd. (Harris)
- 1550 - WPEG-Winston-Salem, N.C., hrd 1715 w/ mx/s-off. (Raiche)  
 WCGR-Canandaigua, N.Y., hrd 1/14 0403-0435 w/ EF/M. (Arthur)
- 1560 - WQXR-New York City, hrd 2000 w/ little QSB, some QRM. (Harris)
- 1562 - R. Veronica, in International waters, hrd 1105 w/ mx. (Harris)
- 1570 - WNCA-Siler City, N.C., hrd 1700 w/ nx/mx/ads until 1715 s-off.  
 WLSC-Loris, S.C., hrd w/ s-off at 1715. (both Raiche)  
 WOKZ-Alton, Ill., hrd 1715 w/ s-off. (Raiche)  
 WRWJ-Selma, Alabama, hrd 1745 w/ s-off. (Raiche)  
 WTWB-Auburndale, Florida, hrd 1733 w/ s-off. (Raiche)  
 WAPC-Riverhead, N.Y., hrd 1653 w/ ID. (Arthur)
- 1580 - WORG-Orangeburg, S.C., hrd 1709 w/ ad. (Raiche)  
 WEYY-Talledega, Alabama, hrd 1743 w/ wx/s-off. ex-WJHB. (Raiche)  
 WDQN-DuQuion, hrd 1740 w/ sports/wx/s-off. (Raiche)  
 WSKT-Colonial Village, Tenn., hrd 1730 w/ s-off. (Raiche)  
 WESY-Leland, Miss., hrd 1800 w/ s-off. (Raiche)  
 WCCF-Punta Gorda, Florida, hrd 1730 w/ s-off. (Raiche)  
 WKKD-Aurora, Ill., hrd 0747 w/ ad/ID/mx. (Marshall)  
 WVKO-Columbus, Ohio, hrd 1630 w/ nx/wx/ID/mx. (Arthur)  
 WPKY-Princeton, Kent., hrd 1654 w/ anmt/ID. (Arthur)  
 WJUD-St. Johns, Mich., hrd 1657 w/ anmt/ID. (Arthur)  
 WZKY-Albemarle, N.C., hrd 1710 w/ mx/ad/ID/mx. (Arthur)  
 WCNB-Connersville, Ind., hrd 1710 w/ mx/ID/ad/mx. (Arthur)  
 WOVE-Allegan, Mich., hrd 1717 w/ mx/ID. (Arthur)  
 WLBA-Gainesville, Georgia, hrd 1725 w/ nx/ID/s-off. (Arthur)  
 WCRV-Washington, N.J., hrd 1700 w/ s-off. (Arthur)  
 WMJH-Hamilton, N.J., hrd 1700 w/ s-off. (Arthur)  
 WCOY-Columbia, Penna., hrd 1700 w/ s-off. (Arthur)  
 WLIJ-Shelbyville, Tenn., hrd 1757 w/ ID/mx. (Arthur)  
 WWIL-Ft. Lauderdale, Fla., hrd 1755 w/ ID/anmt/mx. (Arthur)  
 WPGC-Washington, D.C., hrd 1715 w/ s-off. (Arthur)  
 WPAC-Patchogue, N.Y., hrd 1622 w/ ID/anmt. (Arthur)  
 WANB-Waynesburg, Penna., hrd 1650 w/ ID/anmt. (Arthur)
- 1590 - WLBN-Lebanon, Kent., hrd 1730 w/ seoff. (Raiche)  
 WELE-S. Dayton Beach, Fla., hrd 1728 w/ s-off. (Raiche)  
 WTVB-Coldwater, Mich., hrd 1730. (Raiche)  
 WALG-Albany, Ga., hrd 2345 w/ ABCs New Year program. (Arthur)  
 WAIK-Galesburg, Ill., hrd 1705 w/ ID/mx. (Arthur)
- 1600 - WTYM-East Longmeadow, Mass., hrd 1645 w/ s-off. (Arthur)  
 WINX-Rockville, Md., hrd 2246 w/ wx/ID. (Arthur)

Whew! That takes care of our space for this month. See you in March.  
 Same time; same place. Best of MWDX!

John T. Arthur-WPE2CLD

Most of our members know that when you plug a lamp into an outlet and turn it on the light seems continually bright it is actually turning "off and on" sixty times per second. this is due to the fact that house current is alternating current or more commonly called AC. - What has this to do with Tech Trails? Here's what...

-- POWER SUPPLIES --

Any electronic device has a power supply; weather it be just a single battery cell or a complicated circuit they all perform the very same function!

For instance, your receiver, has a power supply somewhat like the one we will discuss in this bulletin.

The basic function of a power supply is to produce a type of electric power that can be used by your receiver. Since AC cannot be used because it is always changing its amplitude (voltage as far as we are concerned) direct current ( DC ) is used.

DC is always at the same voltage and therefore is not change . If you were to hook-up an oscilloscope to AC mains and then DC mains the following diagrams illustrate how it would "look".

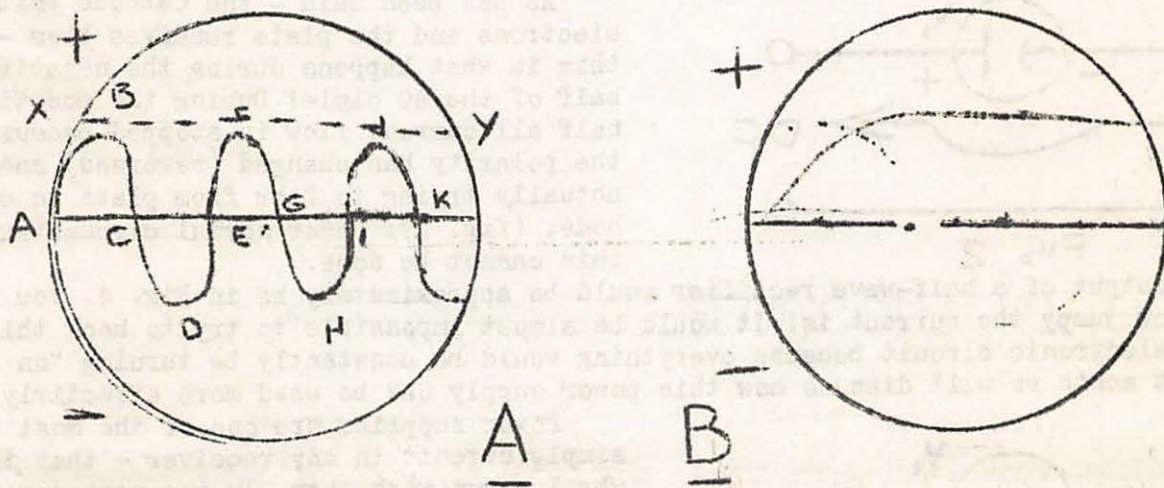


Figure "A" is alternating current. Suppose that you let line X - Y equal 110 volts . At the moment the sine wave (curved line) touches it the voltage is at a maximum ( 110 volts in this case) because it does not exceed 110 volt mark on the screen. the zero line is the point where the voltage is at its minimum ( zero volts). You see also that one half of the screen is marked plus ( + ) and the other half is marked ( - ) minus. This means the "positive or negative " alterations which are explained in the following paragraphs.

AC has one positive and one negative alternation in every cycle (your house current alternates at a frequency; alternations per second of 60 times per second). Therefore, there are 60 plus sections and 60 minus sections--each second actually a total of one hundred twenty alternations every second ( 60 - plus 60 + alternations equal 120 alterations).

We can then conclude that one cycle on figure A is from M to G and one alternation would be from E to M.

(continued on page 2)

THE CURRENT

You can see now that during every alternation  $V$  goes from zero to the maximum (110 volts in this case) and back down to zero and that in one cycle the voltage goes from zero up to the maximum, back to zero, up to the maximum again (now on the negative half of the cycle) and back to zero.

On D. C. the voltage rises to a maximum (almost instantly) and stays there. No changes would be noticed until the voltage did increase or decrease in amplitude. The important fact to remember though, is that with AC there are various changes in amplitude and with DC the amplitude is at a constant (for all practical purposes).

Now with that understood we can really dig-into those power supplies.

Probably the most simple type of power supply (there are many) is a half-wave rectifier. Its circuit is shown here:

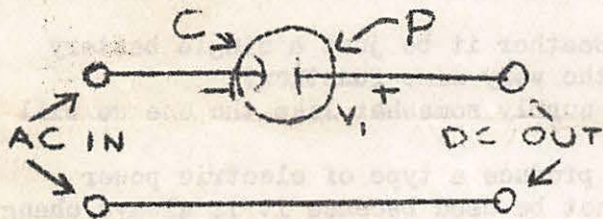


FIG. 1

$V_1$  is a diode vacuum tube and is the only major component of the circuit. Its purpose, you remember, is to change AC to DC.

A diode consists of two elements - a cathode and a plate (labeled C and P respectively). An important fact to remember is that a cathode only emits (gives off) electrons and a plate only receives them.

During the negative half of the AC cycle the cathode emits electrons to the plate thus the current flow would be in the following direction (Fig. 2):

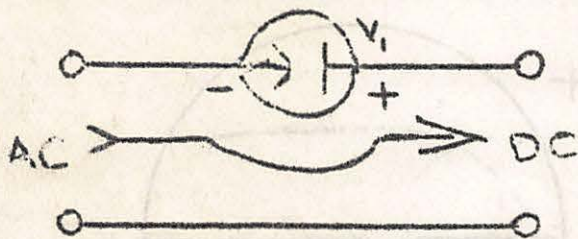


FIG. 2

As has been said - the cathode emits electrons and the plate receives them - this is what happens during the negative half of the AC cycle! During the positive half all current flow is stopped because the polarity has changed (reversed) and is actually trying to flow from plate to cathode. (fig. 3): Under normal circumstances this cannot be done.

The output of a half-wave rectifier would be approximately as in Fig. 4. You can see how jumpy the current is. It would be almost impossible to try to hook this up in an electronic circuit because everything would be constantly be turning "on and off"! next month we will discuss how this power supply CAN be used more effectively!

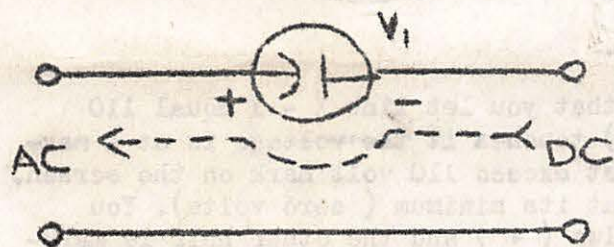


FIG. 3

- Power supplies are one of the most simple circuit in any receiver - that is why I began with them. In the next upcoming bulletins I will write on such topics as;
1. Power Supplies
  2. RF amplification stages
  3. Intermediate ampificatinn stages
  4. audio stages
  5. frequency characteristics

So "stay-tuned and we'll really teach you about the operation of your receiver old man!

Well, seventy-three es we'll be looking fer you further down the log - - - N A S A de WA2YAB over, off, and clear and listenin' fer any possible final..... (like I mean Send in your questions !)

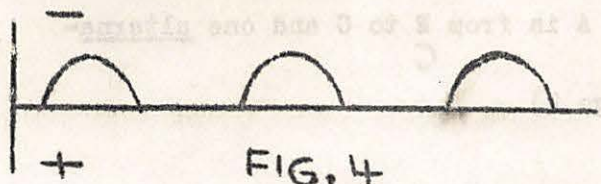


FIG. 4

73 TO YA!  
 Bill Zubinski