

HAM HUM

ublished by
AK-SAR-BEN RADIO CLUB, INC. - Omaha, Nebr. 68101
Post Office Box 291 - Downtown Station



Vol. XVII No. 2

February 1967

NEXT MEETING

Friday, February 10, 1967, is date of the next meeting of the Ak-Sar-Ben Radio Club, Inc. Meeting will be held at 8:00 P.M., 4-H Building, Ak-Sar-Ben Field.

Program Chairman Jay C. McAleer, WAQLLQ, says: -

Damon Nuckols, WOUIO, will give a short talk on a half wave dipole. Harry Snyder, WØNVE, will give a talk and show slides of a two megawatt Navy transmitter.

We also will have the new ARRL message forms on hand for you traffic handlers who need them.

Douglas County still needs an Emergency Coordinator for the Amateur Radio Emergency Corps. Help!

LET US STRENGTHEN THE AK-SAR-BEN RADIO CLUB!

Keep in mind the purpose of the Ak-Sar-Ben Radio Club--to foster and promote the establishment of high standard of ethics in amateur radio; to discourage and eliminate unfair and unethical methods and practices in amateur radio; to bring about a better relationship between all practices in amateur radio; to study and develop standards of conduct and procedure which will be to the benefit of amateur radio the public in general; to generally engage in and do any and all things necessary and proper to foster, maintain, and encourage the use and proper acceptance of amateur radio. Any group can inadvertently lose sight of its objectives or drift into side issues. Let us live up to the duties of amateur radio membership-be willing to fulfill the responsibilities that go along with our rights; know that what we do or leave undone helps or hurts every ham; realize our limitations, but do what is reasonably expected of us, open our ears to listen as well as our mouths to speak; and fraternally carry out radio club activities promptly and intelligently.

Erv Heinz, WAØEEM President HAM HUM is the official organ of the Ak-Sar-Ben Radio Club, Inc., of Omaha, Nebraska, mailed monthly to all members and to others upon request.



From Jay C. McAleer, WAØLLQ:

1-7-67

Attention Hams,

This is to notify you of a new net on 75 meters called the Dead End Net. This net was designed for you amateurs who like to sit on your dead ends in the middle of the afternoon and operate when you should be doing something important like sleeping. The Dead End Net was formed purely by accident. Several of us got into the habit of ragchewing during the weekday afternoons when out of nowhere a little XYL's voice suggested us deadenders start a net as long as we were always there. Incidentally, her O.M. is now net manager. His handle is Don and his call is WAØMCX, QTH Stapleton, Nebr. We intended to keep the net informal but we were in for a blow. People do like to pass traffic, run phone patches and found it very convenient to do this in the afternoon instead of in the evening Orm. Actually we are all very pleased with the results. The net is registered with A.R.E.C. and the Deadenders are real official, Hi. All of the net controls are handicapped physically, visually or mentally, mine being the latter. Here's the statistics; The Dead

Published by
AK-SAR-BEN RADIO CLUB, INC.
Post Office Box 291
Omaha 1, Nebraska
Editor: Dick Eilers, WØYZV

Phone HOME: 391-2255

Associate Editor: John Snyder, WOWRT

HOME: 556-1538

Phone BUSINESS: 551-0669 - EX. 317

End Net meets daily Monday through Friday at 3:00 C.S.T. on 3.982 Kc. Anyone can check in. One rule, however, is in existence. The word "WORK" is taboo and if you want to keep yourself in good standing with us, don't use that word. It can cause detrimental effects and we might even go into a coma from the mere thought of such a thing. Last month, Dec., 66, the net had 485 check in and handled 212 formal messages.

73's Mickey Mic

Gentlemen:

Nice article on Ham Plates. We spent many hours with Senator Nelson and with other Holt County amateurs telling our story. The sad thing is that many of the amateurs are not taking advantage of the hard work we had to secure them. Many just don't care; others say they will not pay the extra \$1.00. As one who remembers, I say - Take advantage of the break given us by our Legislature.

WØLFJ Matthew G. Beha

JANUARY MEETING

We had a good attendance at our January 13th meeting. Our new President Erv Heinz, WAGEEM, iated and conducted the meeting as a good president should, or we might say "like we knew he would."

The following were approved for membership in the Club: Brian C. Hoag, WNØOXH; Jim Knudsen, Jim Knudsen, WAØMHF; and Bob Welshinger, WAØKUL.

The selection of Dick L. Eilers, WQYZV, to the Board of Trustees to fill the unexpired term of Erv Heinz was approved.

It looks like this is a year for action. We had a report from Bob Lockwood, WAØDHU, Chairman of the Field Day Committee - and at the January meeting no less.

Thanks to Dave Moses, WAQGED, and John Orr, WOPHW, for their part in the program. Dave in the technical section discussed teletype converter circuits. John demonstrated a microwave-type transmitter and receiver. The transmitter was modulated with a tape recorder output. The receiver and transmitter were made from klystrons as their basic ingredient. Not only did he demonstrate them, along with their peculiarities, but explained the method of operation. These rigs were operating on one of the gigahertz Ham bands and after demonstration we realized what he means when he refers to John Snyder, WØWRT, as a low frequency man, John, for the benefit of those who do not know him, has been most loyal over the years to 144 megahertz

band. WØPHW gave us the advantages of the band and particularly if you are bothered by QRM and wish to get away from it all: - call John Orr for additional information.

See photos elsewhere in this issue.

ADDITIONS TO ROSTER

Brian C. Hoag, WNØOXH 4422 North 80th Street Omaha, Nebraska 68134 Phone: 393-0326

Jim Knudsen, WAØMHF 329 North 2nd Street Council Bluffs, Iowa 51501 Phone: CB - 328-0284

Dorothy Roberts XYL of KØKEO 2911 Ellison Avenue Omaha, Nebraska 68111 Phone: 455-0190

Margaret Smith XYL of WAØICK 317 North Molly Street P.O. Box 112 Bennington, Nebraska 68007 Phone: 238-2363

Bob Welshinger, WAØKUI 102 Osage Street Papillion, Nebraska 68046 Phone: 339-8586

January 14, 1967

AK-SAR-BEN RADIO CLUB, Inc. P.O. Box 291 Downtown Station Omaha, Nebraska 68101 Hi:

The Lincoln County VHF gang met at WOVEA's home, (Dayton), on Friday 13th, Eleven licensed hams present, including Wayne Moore, WOGEQ, Ogallala. No one mentioned any superstitions.

Discussion and comparison of some equipment, problems, antennae were topics of the evening, plus some planning to provide emergency communications for CD.

We now have ten operators on 2 meters, including KØURR, Betty, Wellfleet, Nebr. Ralph, KØURS and Betty KØURR, have just put up a seven element beam.

Next meeting at home of KOYRL, Joe, North Platte, Nebr. Febr. 10th.

Recognizing that most commercial gear is built for minimum balance of components to power output, even underpowered for economy models, it should be no surprise ending to any story you may hear about, "I changed this, and that, and got five times the output! But it isn't working now, something else went up in smoke." It is practical to make some improvements on most gear, but make it on tune-up, feedlines, antennae, couplings, not in increased power on a rig that is already drawing the maximum from its power supply, that is already loading capacitors and tubes to their maximum.

Did you ever hear about the dedicated ham who built a wonderful piece of gear? Spent months on it,

exclusively, finally finished it, and proudly called his XYL to see how it worked, but his son answered, "Pa, Ma ain't here, she left home six weeks ago."

Dayton WØVEA

P.S. Enclosed two bucks, keep Ham Hum coming.

1-14-67

His

Just read the new Ham Hum and really enjoyed it, as there were several letters in it from old exmembers I knew when I was active there, like Frank Cooper, I don't recognize as many names as I used to.

I got my new call and am now WØKZC. I'd sure like to meet some of the old gang on the air!

> Dick Reimund, WØKZC Ex-W5KTI, Ex-WØLFM 1516 Countryside Drive Liberal, Kansas 67901 **********

FOR SALE

HEATH HR-10

\$40,00

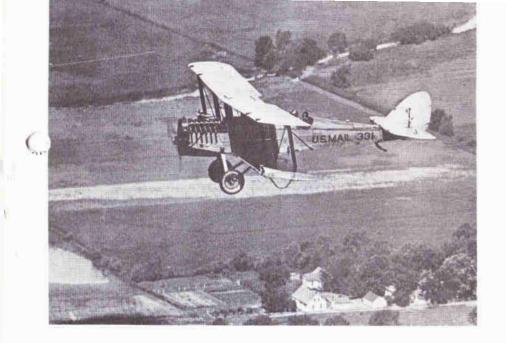
Receiver with headphones and instruction manual

HEATH DX-60A

Transmitter with instruction manual

Both for \$75.00

Call Bill Fries, WNØMNO 393-0564



The Ak-Sar-Ben Radio Club, Inc. will participate in kicking off the Nebraska Centennial by furnishing amateur radio communications at Eppley Field on February 22, 1967. The occasion is the reenactment of the first night flight of cross-country airmail service. We will cooperate with outstate ham radio operators by handling their radio traffic at Eppley Field. the destination station. Progress reports of the flight reenactment will be announced and posted from all given points along the bonfire trail originating at North Platte.

The first night airmail flight in the United States was flown n North Platte to Omaha in a 44 with Jack Knight, pioneer pilot for the Post Office Department at the controls. He took off from North Platte at 10:45 p.m., February 22, 1921, following a route of blazing bonfires placed at intervals

across the state, landing at Ak-Sar-Ben Airmail Field at 1:10 a.m., the 23rd. This historic flight was made to demonstrate to the Government the potentiality of night flights to speed up the coast-to-coast airmail service; hence the ultimate installation of the lighted federal airway systems.

WØSAI, Claude E. Longstreth of North Platte is the OM doing the fine job of organizing and coordinating ham radio mobile units at all given points along the flight. We are happy to work with him and the North Platte club who have accepted the responsibility of setting up mobile communications along the entire route. All amateur radio hams in the area are urged to give their fullest support to insure 100% copy from Originating Station, Relay Stations, to Destination Station. General Class operator, Lou Cutler, WOVLI, will handle the air radio traffic as Destination Station, Eppley Field. Progress report of the flight reenactment will be given at all points. (Frequency: 3982 Kcs).

Bonfires will again light the way and will be controlled by the respective Fire Departments en route, to guide the old-type plane piloted and owned by Harlan (Dusty) Rhodes of Sidney. The plane will again carry a load of airmail first cover envelopes to various destinations, and it will terminate at Eppley Field with a grand program according to Mr. Goffin, head of the Centennial Commission, and his assistant, Mr. Ed Sykes.

Publicity Committee Dave Moses, WAØGED
Erv Heinz, WAØEEM

Dear Ed:

Let me take the opportunity to exercise another New Year's resolution and thank you once again for continuing to send me the Ham Hum.

I don't know many of the Omaha Hams any more but certainly enjoy reading about them. One I do know, and congratulations to him - the new Vice President John Snyder. Two meters here in Calif. just isn't the same without WRT.

About the only regular schedule I keep is with my father, WØPQP, but always on the lookout for Omaha.

That article about SWR by K3ZPQ in Jan. was certainly good.

Wishing the Ak-Sar-Ben R. C. another good year.

John Haley, WØNOW/6

OFFICIAL BULLETIN NR 94 FROM ARRL HEADQUARTERS NEWINGTON CONN JAN 5 1967 TO ALL RADIO AMATEURS BT

A reciprocal operating agreement is now effective between Netherlands and the United States. Amateurs of one country visiting or residing in the other may obtain permission to operate their own stations there. The United States has previously reached reciprocal agreements with Australia, Belgium, Bolivia, Canada, Colombia, Costa Rica, the Dominican Republic, Ecuador, France, Germany, India, Israel, Kuwait, Luxembourg, Nicaragua, Panama, Paraguay, Peru, Portugal, Sierra Leone and the United Kingdom, Many others are being negotiated and successes will be announced as they occur AR *********

OFFICIAL BULLETIN NR 96 FROM ARRL HEADQUARTERS NEWINGTON CONN JAN 19 1967 TO ALL RADIO AMATEURS BT

All amateurs in the ARRL Field Organization are urged to take part in the 1967 Novice Roundup to be held February 4 through 19. The leading Novice in each ARRL section will be awarded a certificate of achievement, Page 55 of January OST has all the details on how to participate. Free log forms and a WAS map are available from the ARRL munications Department, 225 Main Street, Newington, Connecticut 06111. When requesting please be sure and include your zip code along with your address AR *********

Micro-wave "Would You Believe"

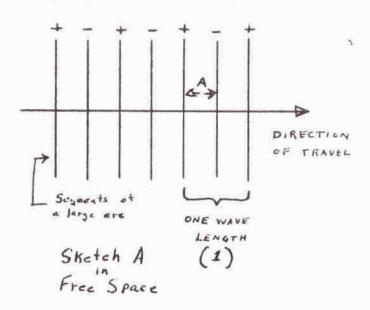
The wavelength of a micro-wave signal is longer when it is traveling down a wave-guide than when it is weling in free space. The frequency will be the same however.

The January meeting of the Club provided an introduction to the micro-wave region. At that meeting we found out how a reflex klystron generated R.F. energy, how it was fed into the wave-guide. It is more or less radiated into the wave-guide much as we know radiation from any antenna. In this case the R.F. is contained in the wave-guide until the end of the guide is reached. At the end of the guide we often let the R.F. bounce against a reflector. If the reflector is shaped like a parabola, the energy will be directed away from the reflector in a narrow beam. This beam may be as narrow as one degree at the half power points.

Even a beam as narrow as one degree produces an expanding wave front. This is in contrast to the wave front in the wave-guide. In the guide, the front bounces from side to side and is always at an angle to the walls. When the wavelength is measured in the guide it is always measured at an angle to the front. In free space it is measured as the front passes the measuring point.

The sketches will help you understand this difference in wavelength. Sketch A shows the path of the free space wave front. Sketch B shows why the wavelength is longer in a guide than that in free space.

Now "would you believe" that the components used in a wave-guide must be built to match the internal wavelength. This holds true of

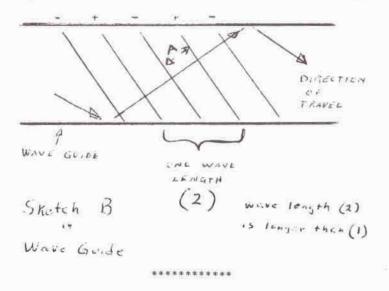


signals being transmitted as well as those being received.

See you on the 10 GHz band

next month with some hints on equipment design.

WOPHW



OFFICIAL BULLETIN NR 95 FROM ARRL HEADQUARTERS NEWING-TON CONN JAN 12 1967 TO ALL RADIO AMATEURS BT

Attention DXers. Announcement is hereby made of an addition to the ARRL Countries List. The addition is Farguhar, Farguhar, formerly one of the Seychelles, is now one of the islands making up the British Indian Ocean Territory. Contacts made with amateur stations on Farguhar November 10, 1965 or later will be counted as separate from the rest of the Seychelles. Honor Roll credits for Farquhar OSLs may be claimed in March, all others in accordance with DXCC submission rules announced in January, 1966 DXCC Notes AR *******

OFFICIAL BULLETIN NR 97 FROM ARRL HEADQUARTERS NEWINGTON CONN JAN 26 1967 TO ALL RADIO AMATEURS BT

With the approach of the ARRL International DX Competition, the first and third weekends of February and March, UNITED STATES amateurs are again reminded that the following countries object to communications between their amateurs and those of other countries. Cambodia, Indonesia, Thailand and Viet Nam forbid such radio cor munication. The prefixes to avoid are HS XU 3W8 (or XV5) and 8F. KIYPE/XV5 is operating from Viet Nam with the express authority of the local government and the FCC. therefore, has no objection to U.S.

amateurs working K1YPE/XV5.
CANADIAN amateurs may not communicate with Cambodia, Indonesia,
Laos, Thailand, Viet Nam and
Jordan. Prefixes to be avoided are

JY XU XW8 3W8 (or XV5) and
8F AR

NOTES FROM WAGGED

The Ak-Sar-Ben Radio Club would like to call attention to some changes in the upcoming Ham auction in April. In the past, a minimum price could be set on the articles brought to the auction for sale. The Club will still charge the same ten per cent auction fee, but the minimum price feature has been dropped. Instead, if the owner of an item sees that his item is not bringing the price he wants, he must bid on it himself.

Bill Fries, WNØMNO, was the lucky winner of a \$6.00 attendance prize at the January meeting. Congratulations, Bill!

* * * * *

The Club is holding some unclaimed QSL cards. If you recognize them as being yours or know to hom they belong, please contact ave, WAØGED.

 TO:
 FROM:

 WNØPMW
 WN8SYW

 WNØNZI
 K5KDG

 WAØKOF
 KØKKV

ACTACLE IN

Here is the fine set-up of Ed Kilton, KØEYR. Ed works 6-1Ø-15-2Ø-4Ø meter AM and SSB with the following gear: G-76 xmtr-rec, Galaxy 5 transceiver with remote VFO and accessory console. The microphone is a SB44 and the antenna is a 14 AVS. Ed started in amateur radio as a Novice in 196Ø. A year later, he became a Tech and since 1965, has held a General license.



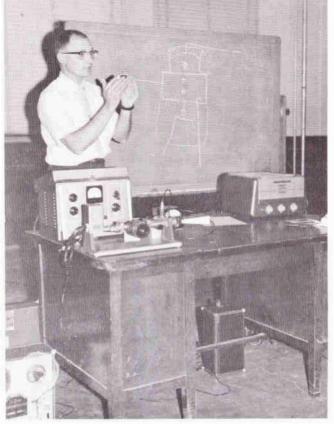
FOR SALE

Moving this summer. Have for sale 15 or 20 good crystals and a Hy Gain 10 meter beam. Most crystals 40 and 80 meters, some good novice frequencies.

> Michael J. Wagner, KØTCD 4216 Pratt Street, Omaha Phone: 453-1431

Success consists of getting up more times than you fall.

9



PHOTOS
FROM THE
JANUARY
MEETING

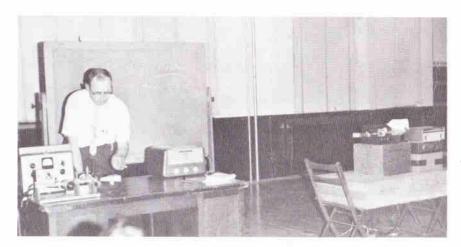
John Orr, WØPHW, demonstrates a 10.2 GHz transmitter and receiver.

Dave Moses, WAQGED, giving a brief discussion on the use of filters.





Erv Heinz, WAGEEM, promotes membership in the American Radio Relay League.







"Just found out how much I could have SAVED by buying a WRL Duo-Bander 84 !"

THREE Great Package Options!

ECONOMY **FIXED STATION** PACKAGE

INCLUDES

DUO-BANDER 84 AC48 Power Supply

10 DOLLARS \$70095 MONTHLY

FIXED STATION PACKAGE

INCLUDES: WRL Duo-Bander 84; Model AC-384 Power Supply; WRL 3N1 Mike w/stand, WRL 80-40 Meter Doublet; (100') RG58/ U Coax; All plugs.

\$26500 14 DOLLARS

MOBILE PACKAGE

INCLUDES: WRL, Duo-Bander 84; DC Power Supply with cables; WRL 3N1 Mike; Body Mount; New-Tronics RSS2 Spring; MO-1 Mast and 40 & 80 Resonators; (25 ft.) RG58/U Coax; all plugs.

\$30500 15 DOLLARS

MONTHLY

"The House the HAMS Built!"



NOT A KITI

WIRED — Ready for Operation

Designed for the Amateur who's interest is 80 and 40 meter SSB. Power and high-performance at a very reasonable cost! Power to make good contacts...a selective Receiver, Stability and Compactness! (5x111/4x10") Smaller by far than anything in its power class!

LOOK AT THESE FEATURES: 300 Watts PEP/SSB • 2 Ke Dial Calibration • Rugged Reliable Printed Circuitry • Stable-Transistor VFO . Dual-Speed Vernier VFO Tuning Built-in Speaker • Mounting Bracket • Combination "S" Meter and Output Meter · Sharp 4-Crystal Lattice Filter.

Why wait? Enjoy it now for only \$8.00 monthly!

WORLD RADIO LA 3415 West Broadway,			Dept. HF 51501
Please ship me the fe	ollowing:		
☐ Duo-Bander 84—\$150 ☐ Information on Duo-I ☐ Economy Fixed Stati ☐ Fixed Station Packag ☐ Mobile Package—\$30 ☐ Check or Money Ore	Bander 84 on Pkg.—\$199 e—\$265.00)5.00	.95	7 Catalog
Name		Cal	1
Address			
City	State	Zip	