

HAM HUM

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



Vol. XXI No. 12



1971 ANNUAL MEETING and CHRISTMAS PARTY of Ak-Sar-Ben Radio Club, Inc.

December 10, 1971 — 8:00 P.M.
World Insurance Company
Cafeteria
203 South 18th Street, Omaha

DUES DUE before meeting

December 1971

MOVIE for

Jr. Ops

REFRESHMENTS

ELECTION of officers. Paid Club members will vote on officers for 1972.

EXCHANGE of gifts. ADULTS—please bring a gift of one dollar or more value. Paid Club members will exchange gifts. Non-members who bring gifts will be eligible for the guest exchange.

SPECIAL ENTERTAINMENT – ACCORDIONISTS Chris Bojanski and Susie Sander.

BRING YOUR FAMILY AND FRIENDS – GUESTS WELCOME

BEST WISHES TO YOU AND YOURS FOR A VERY MERRY CHRISTMAS AND A HAPPY NEW YEAR FROM THE BOARD OF TRUSTEES OF AK-SAR-BEN RADIO CLUB, INC.

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.



Next copy deadline: December 24th

Published by

AK-SAR-BEN RADIO CLUB, INC.

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(Ed. Note: We note from the Application for Membership of W7OJJ that he is a charter life member of ARRL. To the best of our knowledge, he is the only charter life member we have. Are there any other life or charter life members of ARRL in our Club?)

FOR SALE

Galaxy Duobander with G35DCA and AC48A power supplies\$150.00

Am selling the gear to finance a FM repeater here in Norfolk which is the construction stage.

Write — Lyle C. Johnson, KØHKE 710 South 4th Street Norfolk, Nebraska 68701

NOMINATIONS FOR 1972

The annual meeting of the Ak-Sar-Ben Radio Club, Inc. will be held on December 10, 1971 at which time officers will be elected for 1972.

The Articles of Incorporation and Bylaws of the Club provide for the election of a President, Vice President, and four members of the Executive Council each year. The President and Vice President are elected for a one-year term; the Executive Council members are elected for a two-year term. The outgoing President remains on the Board of Trustees as Immediate Past President for one additional year.

Remaining on the Board for 1972 are: James C. Droege, WØYCP; Leo F. Connolly, KØJIU; Raymond F. Kydney, WAØWOT; Russell A. Minks, WAØVEE; and Marion (Mike) Wilczynski, WBØBMV.

These five together with the new officers and members of the Executive Council to be elected will comprise the Board of Trustees for 1972. The Board will then elect a Secretary and a Treasurer from the Executive Council.

At the annual meeting the Nominating Committee will place in nomination the following members:

For President

Edward F. Askew, WAØRDZ

Age:

43

Address:

Thurman, Iowa

Phone:

(712) 628-2591

Wife:

Marjorie, WAØRDY

Children:

Margaret, Edward, Rebecca, John and Catherine

Employment:

Farmer

License:

4-21-1967 (General)

Hobbies:

Ham radio, hunting, camping

For Vice President

Robert D. Andrus, KØLUG

Age:

49

Address:

4116 North 100th Street, Omaha

Phone:

571-2594

Wife:

Audrev

Children:

Robert, Richard, Ann

Employment:

Heyden Tile Co.

License:

1957 (Tech)

Hobbies:

Ham radio, woodworking

For Executive Council

Alvin (Al) Comisar, WAØSTK

Age:

40

Address:

5514 North 69th Street, Omaha

Phone: Wife: 571-6001 Edith

Children:

Frank, Sharon, Barbara

Employment:

World Radio

License:

1967

Hobbies:

Ham radio, fishing, camping, woodworking

Dr. Edward A. Holyoke, WAØVSR

Age:

63

Address:

5444 Western Avenue

Phone:

553-6464 Wallace

Wife: Children:

2 married sons

Employment:

Professor, University of Nebraska

College of Medicine

License:

1968

Hobbies:

Astronomy, hunting, photography, ham radio

Charles F. Kelly, WAØUZX

Age:

58

Address:

561 North First Street, Missouri Valley, Iowa

Phone: Wife: (712) 642-2821

Children:

Marjorie

Cimuten.

1 daughter in college

Employment:

Jeweler

License:

1968

Hobbies:

Hunting, fishing, photography and ham radio

Brian R. Zdan, WBØAJI

Age:

18

Address:

6818 Hartman Avenue

Phone:

571-6008

Employment:

High school student (honor)

License:

1969

Hobbies:

Hockey, writing, hopes to become

a radio announcer

PAST PRESIDENTS' LOG By Erv Heinz, WAØEEM

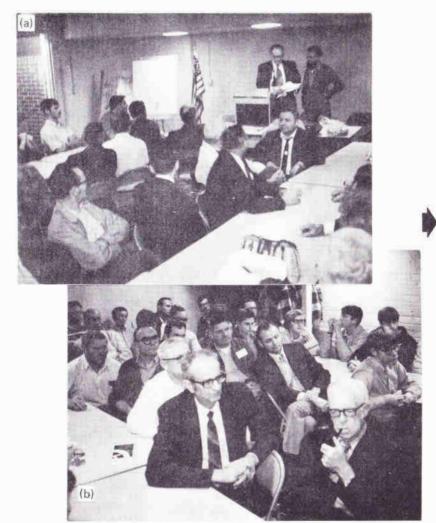
I arrived at the November meeting a minute late and found a standing room by crowd greeting the Past Presiments. It was a night of accepting new members and remembering the old ones. (See pictures a and b submitted by President Jim Droege.)

Past Presidents had a chance to reminisce to a captive audience,

Car

letters were read from some Past Presidents who could not attend telling of their whereabouts, and an eyeball QSO was participated in by all.

A couple efforts were expended to group the Past Presidents for photographing so you'll see some of them in both pictures.







Picture 1 — left to right (standing): Current President James C. Droege, WØYCP; Harold E. McClenahan, Jr., WAØDGA (1970); Arthur R. Gaeth, WØFQB (1947); John W. Orr, WØPHW (1952); Royce E. Johnson, WAØKIL (1969); John A. Droescher, KØKWB (1961); and Herbert D. Curry, WØQXR (1948).

Left to right (seated): Ervan D. Heinz, WAØEEM (1967); Robert C. Lockwood, WAØDHU (1968); Dick L. Eilers, WØYZV (1956); Louis A. Cutler, WØVLI (1964); Max N. McKinney, WØYVV (1960); Royal M. Enders, KØLYO (1962);

Picture 2 — Rev. R. J. Strange, WØQHG (1953) arrived a little late and is shown standing second from left in picture 2.

Letters received from some former Presidents of the Club are quoted for your interest. Phoenix, Arizona 10-30-71

Dear OMS:

I retired 2½ years ago after 18½ wars at Motorola in the Gov. ctronic Dept.

Have a YAESU FT101 which I use at home. In my pickup and camper, work 10 most of the time; also 15-20-40 & 75. For seven weeks this summer and fall I was portable VE7.

My best to all and will look for you on the bands. Thanks for the invitation. Maybe sometime I can be there.

73s N. P. Nelson, W7RCF 1836 27th Place Phoenix, Az 85008

24 October 1971

Ak-Sar-Ben Radio Club C/O Dick Eilers WØYZV Omaha, Nebraska

Dear Dick:

Many thanks for the invitation to attend the meeting on 12 November honoring the past presidents. Since I was supposed to be in Europe this week and did not make the trip, perhaps I can come to Omaha instead to attend this meeting. Although the XYL and myself will be in Omaha for the Thanksgiving weekend for sure I will nevertheless try to make this meeting. If the Air Force is still good to the old retired blue suiters I can get the SAC airplane at March Air Force se for the trip into Offutt AFB.

We are quite busy here with the three Fish & Chip Shoppes and the printing business I went into a year ago and it is steadily increasing in volume, hence I really don't have a lot of time to myself to pursue recreational items. I am not on the air too much these days, although I do manage to check in with Ferris Kramer WØYZK every Sunday on 20 meters at noon your time. I finally got the TH-6 up and am now working over the Galaxy rig just to have in case I do find a few minutes to get on the air.

Pearl and I haven't gone anywhere for quite some time now due to the nature of the business. We are the "5th wheels" or spares just in case some of the help cannot make it. I wanted to start flying again and was going to purchase a light airplane, but she bought a Cadillac instead. We do get to the SAROC hamfest in Las Vegas in January from year to year. One of the daughters is married and lives in San Francisco Bay area as does her sister who is still single, so that is another place we visit from time to time. Pearl mainly runs the fish shoppes while I manage to stay busy in the print shop but at times I take care of the maintenance and K.P. when required. I think I am the only "fish frying printer or printing fish fryer" in Orange County. We both feel OK but are growing a bit older.

This just about sums up the activities here, Dick. Our best personal regards to the gang back there with whom we are acquainted. Hope to see you at this meeting and if not I will contact you over the Thanksgiving weekend when I am there.

Best 73's David A. Hollander Major, USAF (Ret.) W6COJ

Dear Dick: Sure wish I could be with you for ex-pres. night on the 12th, but no can do.



I recently moved to Merced, Ca., 3000 Park Ave., Apt. 32, 95340. Now in practice here. Ham radio pretty slow now - have been on VHF repeater past 9 years but in last 3 years have taken up flying, so that uses up most of my spare time. However, no room here at the moment for radio gear. All my gear is still in San Jose except for some mobile VHF stuff.

Last time I was in Nebraska was last summer (70) when I flew east to a fly-in in Wisconsin. Dropped in on Bud Rudolph one night, then on to Oshkosh next morning. Wish I could spend a little time in old Omaha and renew some old acquaintances. One of these days!

Well, Dick, remember me to all the oldtimers, and hope to see you one of these days. I'll be there in spirit anyway on the 12th.

Doc Becker, W6AID

APPLIANCE OPERATORS

For some time I have noticed the increased amount of "crud" on the various bands. I thought it was the growing number of SSB stations; however, after some concentrated listening I have concluded most of it is from two sources: one, the pushing the daylights out of these cheaper transceivers that were never made to do what most people are trying to do with them; the other, the use of linear amplifiers that are linear in name only. Another thing that bugs me is how these transceiver boys monitor their signals? Monitor scopes? What makes you think they have the savvy to interpet the pictures? . . . - Onyx

Florida Skip, Miami Springs, Fl.

SIGNAL ONE MOVES OUT

Electronic Communications, Inc. of National Cash Register sold its Signal One Amateur Radio Division to Computer Measurement, Inc. of I Angeles. Computer Measurement Board Chairman Edward B. Jay said that his firm will form a new subsidiary to produce the Signal One in the Los Angeles area. The Signal One name will be retained and price will be held about \$2,195 but several improvements will be incorporated immediately and the unit designation will be changed from CX-7 to CX-7A. Signal One inventory and specialized production equipment is being moved from St. Petersburg, Florida to Los Angeles, (LERC Bulletin W6DDB ED) de Florida Skip

ANYBODY HAVE AN OLD POWER TRANSFORMER?

I am a 14-year old novice. I built a transmitter that ran 26 watts and have a BC-224-H receiver. The receiver ran off of the transmitter's power supply. The transmitter blew a transformer and the receiver quit. That was all the money I had. I have a job once a week and get paid about 2 dollars. It took me six months to get the transmitter, but now I need all the help I can get to get back on the air.

I would appreciate any help I can get. Thanks!

Yours truly, Mark Thiem, WNØETF 2007 Victoria Avenue Bellevue, Nebraska 68005 Phone: 291-8831



These photos were recently submitted by WØVLI who took some kind of an audience check at the annual Steak Fry at Cooper Farm on September 12th.















1972 CODE AND THEORY CLASSES

Outline for General and Advanced Theory Classes

Jan. 3, 1972	Ohms Law - Film "Safety Precautions for Electronic Personnel"
Jan. 10, 1972	Ohms Law - Film "Ohms Law"
Jan. 17, 1972	Inductance - Film "Inductance"
Jan. 24, 1972	Capacitance - Film "Capacitance"
Jan. 31, 1972	R.C.L. Circuits - "R.C.L. Resistance Capacitance"
Feb. 7, 1972	Vacuum Tubes - Demonstration
Feb. 14, 1972	Transistors and Diodes - Demonstration and Slide Presentation
Feb. 21, 1972	Power Supplies - Demonstration
Feb. 28, 1972	Oscillators - Demonstration
March 6, 1972	Buffers and Finals - Use of Transmitter
March 13, 1972	Antennas - Demonstration
March 20, 1972	CW, AM and SSB Transmitters
March 27, 1972	Review
April 3, 1972	Review
April 10, 1972	Review

Outline for Novice Theory Classes

Jan. 3, 1972	Ohms Law - Film "Safety Precautions for Electronic Personnel"
	(Joint Meeting)
Jan. 10, 1972	Ohms Law - Film "Ohms Law" (Joint Meeting)
Jan. 17, 1972	Inductance - Film "Inductance" (Joint Film Showing)
Jan. 24, 1972	Capacitance - Film "Capacitance" (Joint Film Showing)
Jan. 31, 1972	R.C.L. Circuits - Film "R.C.L Resistance Capacitance"
Device Total Services	(Joint Film Showing)
Feb. 7, 1972	Discussion of Tube Principles
Feb. 14, 1972	Discussion of Transistors
Feb. 21, 1972	Power Supplies - Demonstration (Joint Meeting)
Feb. 28, 1972	Crystal Oscillators
March 6, 1972	Buffers and Finals Discussion
March 13, 1972	Antennas Discussion
March 20, 1972	Receivers Discussion
March 27, 1972	Review
April 3, 1972	Review
April 10, 1972	Review

Volunteer members of the Ak-Sar-Ben Radio Club, Inc. will conduct code and theory classes in accordance with the above schedule.

Classes will be held at 7:30 P.M. at the Red Cross Chapter House, 432 South 39th Street, Omaha.

No fee—no prior registration required—anyone welcome to attend.

FREQUENCY NETTING OF THE OLDER MOTOROLA FM UNITS

Submitted by— Arnold Krauel, WAØGUD 301 Washington Audubon, Iowa 50025

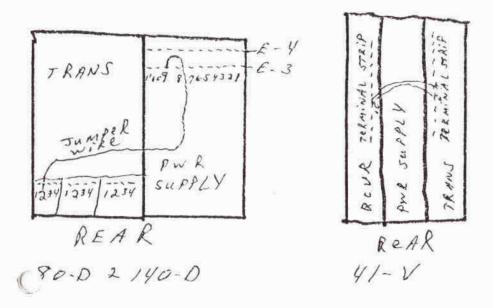
Use a 50 microamp meter with the positive lead to ground and the negative lead to pin no. 4 on the receiver meter plug. The repeater can be used for a frequency standard.

While listening to a conversation on the repeater, check the meter reading; it should read zero. If it does not, adjust the receiver crystal oscillator for a zero reading (the small can right next to the crystal). An insulated tool is needed for this. If the meter reading is below zero, reversing the meter probes will provide an up scale reading.

To net the transmitter to the receiver, jumper the receiver B-plus voltage to the transmitter low B-plus. This will provide a signal from the transmitter and if it does not read zero on the meter, adjust the transmitter oscillator capacitor for zero reading on meter. Transmitter adjustment is a slotted shaft on top of chassis near crystal (ordinary screwdriver may be used).

On the Motorola 80-D and 140-D, jumper from power supply terminal strip pin 9 to oscillator deck pin 2 on any of the 3 decks.

On the Motorola 41-V, jumper between receiver terminal strip terminal 10 and transmitter terminals 6 and 7.



Jumper for a short period of time only.

THE SCM SHACK by Clyde Penny, WAØHLQ

Interest in two-meter FM repeaters has grown by leaps and bounds in recent months. There are several new repeaters either in operation now, or soon will be, in the Rocky Mountain Division. More Amateurs are getting on the repeater frequencies every week.

This is certainly understandable in view of the excellent coverage available through the repeater networks, and the clarity of communication that is obtainable through the FM mode.

The overwhelming majority of repeater users display excellent 'manners' in their usage of the repeater frequencies. However, there are a few users who are jeopardizing the entire operation by the manner in which they use the repeater frequencies. I am referring to the practice of testing on the repeater frequency without identifying your station. As all amateurs know, or certainly should know, they are required to identify their station whenever they make an on-the-air transmission, even if that transmission is for test purposes. Failure to identify is a violation of the FCC regulations, and such stations can lose their licenses if they are apprehended by the FCC.

Herein lies the problem where repeaters are concerned. If you fail to identify your station when testing or transmitting on a repeater frequency, the FCC may have considerable difficulty in identifying your station, but they have no problem whatsoever in identifying the repeater through which your unidentified transmission is made.

Therefore, when you make transmissions through a repeater without identifying your station, you are placing the repeater license in jeopardy, and continued violations of this nature will lead inexorably to to revocation of the repeater station license by the FCC!!!

So please, fellas — don't jeopardize the license of the repeater station! This is grossly unfair, both to the users, and to yourself! So please do all of the testing you possible can off the air, using a dummy load, and when it is absolutely necessary to test on the air, and especially when testing over a repeater frequency, please identify your station!

- The Round Table de Pueblo, Colo.

VOLUNTEER EXAMINERS

There has been some confusion about the time frame within which a volunteer examiner was obliged to return an examination envelope, FCC has now cleared up the matter with a minor rules change effective immediately: Section 97.29(b) (3) now reads, "The examination papers, either completed or unopened in the event the examination is not taken, shall be returned by the volunteer examiner to the Commission's office at Gettysburg. Pennsylvania, no later than 30 days after the date the papers are mailed by the Commission (the date of mailing in normally stamped by the Commissi on the outside of the examination envelope,"

(From ARRL Dir. Letter 1391) de Florida Skip

ICAO PHONETIC ALPHABET

Word list adopted by the International Civil Aviation Organization.

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FOR SALE

R-390A receiver, excellent condition\$500.00
Professional 351 Ampex
recorder \$500.00
ease call after 7:00 P.M.
Phone: 291-8288
Charles D. Burton
1014 Normandy Drive
Bellevue, Nebraska 68005

A SPY IN THE MAIL

Mailmen in West Germany are working extra hard these days. No one knows when a mini-spy may be at work.

Government officials are concerned about the delays in mail delivery. So they are sending ordinary-looking packages through the mail that really are not ordinary at all.

The packages contain special devices like those used to record earthquakes. A needle moves back and forth on a roll of paper tape. Later, experts can examine the tape to tell when the package was moving, if it was riding on a truck, train, or in the mailman's pouch, or if it was just sitting at the post office.

The mini-spies are so light that they can be disguised as letters. The equipment, however, is used only to find out if the postal system is up to standard. It is never used to spy on individual workers.

From Florida Skip de FEARL News

CITIZENS RADIO OPERATOR ARRESTED

A Hollywood, Fla. man has been arrested for operation of an unlicensed Class D Citizens radio station. James L. Maxson was released on \$2500 bond after a preliminary appearance before U.S. Magistrate Peter R. Palermo. He is scheduled to appear in court July 27. An injunction suit for unlicensed operation is pending against Maxson. (FCC News Release)

de Florida SKIP

13

(Editor's Note: Here is some basic information which is pertinent to any kind of electronic equipment. Moral: be sure that filtering and decoupling is adequate.)

TRANSISTOR RADIO AUDIO AMPLIFIER OSCILLATIONS CURED By ADØVMT, Ted VonKampen

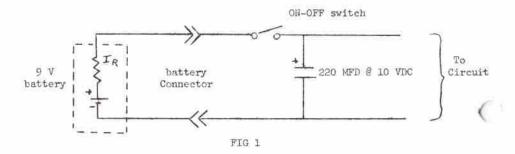
While servicing several small low cost imported transistor radios a peculiar problem was uncovered. When advancing the audio gain control the audio became distorted and eventually broke into oscillation. While monitoring the battery voltage two things were observed:

- A. The voltage was low.
- B. The terminal voltage was fluctuating with the audio signal.

Replacing the battery only cured the problem for a short time and when low cost 9 volt batteries were used the replacement batteries were no help.

Analyzing the problem produced an interesting cure. Many of the radios encountered employed Class B audio amplifiers. The Class "B" situation provides for maximum battery life; however, they require high peak current demands from the power source. If the source is not stiff enough, then the amplifier will oscillate. Usually a battery builds up an internal resistance. Widely varying current loads produce widely varying terminal voltage. The situation is particularly bad when low cost batteries are employed. To cure the problem I found it advantageous to hang a high capacitance across the battery. This allows the capacitor to deliver its stored energy to satisfy the peak current demands of the audio amplifier. I chose a tantalum electrolytic capacitor because of its low leakage and small size. The value of capacitance needed varies from set to set; however, a 220 MFD at 10 VDC works quite well. Using this setup allows the 9 VDC battery to degenerate to 5 or 6 VDC before being unacceptable. Previously the battery had to be discarded at slightly less than 8 VDC.

Figure 1 shows how to connect. Placing on the switched side helps preserve battery life since a small leakage current exists. Usage on the unswitched side will work, however.



de Nebraska Army Mars News

(Editors note) If you have a problem with paying your dues, read the following article.

Interesting Letter But He Paid Dues

In reply to your requests to send a check for dues. I wish to inform you that the present condition of my bank account makes it almost impossible. My shattered financial condition is due to Federal laws, State laws, County laws. Brother-in-laws. Sister-in-laws and outlaws. Through these laws I am compelled to pay a business tax, amusement tax, school tax, gas, light, water, and liquor tax, income tax, furniture tax and excise tax. I am also required to get a business license, car license, operator's license, truck license, not to mention a marriage license and a dog license.

I am required to contribute to every society and organization which the genius of man is capable of bringing to life: Women's relief, unemployment relief, and gold digger's relief. Also to every hospital and charitable institution in the city, including the Salvation Army, Community Chest, Red Cross, Purple Cross, Double Cross, Boy Scouts, Girl Scouts, Cub Scouts, YMCA, YWCA, as well as way stations for Wayward Girls, Boys' Ranch, Boys' Town.

For my own safety I am required to carry health insurance, life insurance, fire, property liability, earthquake, hado, and old age insurance, not to mention unemployment compensation. My business is so governed that it is no easy matter to find out who owns it. I am expected, inspected, suspected, disrespected, rejected,

examined, reexamined, informed, required, summoned, fined, commanded, and expelled, until I provide an inexhaustible supply of money for every known need, desire or hope of the human race.

Simply because I refuse to donate to something or other, I am boycotted, talked about, lied about, held up, held down, and robbed until I am almost ruined. I can tell you honestly that except for a miracle that happened I could not enclose this check. The wolf that comes to so many doors these days just had pups in my kitchen and I sold them, so here is the money for my dues!

-Reprint VFW Missourian de Barracks Bugle, St. Louis

THOUGHT FOR THE DAY

Peace is a rare commodity in today's society. With war, racism and all, it's hard to find that true peace mankind has searched so many years for.

But peace cannot be instantaneously produced. Like love, it forms knowing its own time. No one nation, no one person can cause peace to come about. It can only form by a combined effort of all mankind.

Yet peace can be found. It always exists in oneself, if and only if man can be honest with himself. It acts as a communicable disease, infecting all that come in contact with it.

May God allow us all to practice peace and make this hell on earth a little more agreeable. (Submitted by WB4IME-St. Pete.)

de Florida Skip

HAM-HUM DECEMBER SPECIAL

300 WATT HOME & MOBILE SUPPLY POWER

* MOBILE 12VDC SUPPLY DUO-POWER 300

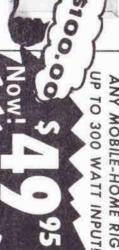
* HOME I ISVAC SUPPLY











quiring voltages in this range, such as single-band Swam, Heath HW series, etc. Suitable for many rigs up to 300 watt level (SSB). Demodule with quick snap-fastners for use as a home supply like Fig. III, or V, and may be field wired to adapt to many other SSB rigs re-#2. Wired for direct plug-in on World Duc-Bander 84 or 11, or Galaxy A complete mobile supply, as shown in Fig. #1, or remove the DC

livers 700 VDC @ 430 Ma. peak; 325VDC @ 150 Ma.; negative bias up to 120 VDC @ 20 Ma.; 12VDC @ 400 Ma.; 12 VAC @ 5 Amp. Approx. size 5-5/8x6-1/8x9-1/8". Complete with cables for operation from 120 VAC (60 Hz) and 14 VDC, both primary and secondary. Shipping weight 16.5 lbs.

49.95



