



HAM HUM



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October 1975

NEXT MEETING

- WHEN: FRIDAY, OCTOBER 10, 1975
- TIME: 7:30 P.M.
- WHERE: NATIONAL GUARD ARMORY
6929 Mercy Road, Omaha
- PROGRAM: RADIO ASTRONOMY

Mr. Arnold R. Johnson, Electrical Engineer Supervisor, Western Electric, combining his hobby of astronomy with his profession, built a "modest" radio telescope. Mr. Johnson notes that the first use of a radio telescope was by a Mr. Grote Reber, an amateur Radio operator. Mr. Reber used radio waves to observe the universe as compared to the customary visual observation through an optical telescope. Mr. Johnson's presentation will focus on "the radio window," the electrical magnetic spectrum, vs the optical window of observation.

REFRESHMENTS -- EYEBALL QSOs VISITORS WELCOME

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: October 24th

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Regular member \$7.50
 Regular member and XYL 9.00
 Student member 3.50
 (due and payable each Jan. 1)

MEMBER NEWS

Gentlemen: Thought I would drop a line and let you know my new location. I am now attending Peru State College in Peru, and plan to major in industrial arts. My new place is: Bill Snyder, Box 21B, Mathews Hall, Peru State College, Peru, NE 68421; phone (402) 872-9125. Please send Ham Hum to above. Tnx.

73s
 Bill Snyder
 * * *

Gentlemen: Please find enclosed a donation for the repeater fund. Hope to be using it soon.

Passed my general in August and am checking the mail daily for my license.

Joe McCool, WNØNFF

(Ed. Note: Sincere thanks for the check, Joe, and congratulations on passing your general. Let us know the new call.)

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AK-SAR-BEN RADIO CLUB, INC.
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New member initiation fee \$1.00

Quarterly for balance of year:

Regular member \$2.00
 Regular member and XYL 2.45
 Student member 1.00

RECENT CONTRIBUTORS

Repeater Fund

Amateur Radio Missionary Service
 Larry V. Donnelly, WØKCK
 Joseph A. McCool, WNØNFF
 James M. McIntosh, WØAPV
 Kent A. Sinram, WBØBOR
 Thomas L. Thiessen, KØPQR

Ham Hum Printing and Postage

Lawrence A. Hiltner, WAØQCI
 Clarke W. Kelley, WØQHE
 Wayne K. Porter, WØHXM

Sincere thanks to all!

Pastor: "Good morning, Betty, I hear God has seen fit to send you two little twin brothers."

Little Betty: "Yes sir, and He knows where the money's coming from, too. I heard daddy say so."

de Pueblo Grid Leak

THE FALL PICNIC

By — WAØZUR

LABOR DAY ACTIVITIES

Approximately 100 people enjoyed a beautiful Fall afternoon at the picnic Missouri Valley.

Would you believe that only 17 of 25 silver dollars went in the Jart and egg-throwing contests? Mike, WBØBMV, and Pat, WBØEGR, had trouble getting the older crowd interested in participating in the contests. Several of the younger hams and prospective ops did keep people jumping with their not-too-accurate egg shots. (On second thought, maybe they were more accurate than we thought.)

Bob, WBØLYU, won the digital clock. Sorry, but I don't have the names of the lucky individuals who won the 3 and 5 silver dollars in the drawing.

It looks as though Mike (our President) has found a permanent job. He brought and cooked the hot dogs. He brought 200 of them, and it appeared to be the exact number needed. Jon, WBØMNK, with some help (?) from prospective ham Jim Leatherwood, managed to mix the cold drinks in a coffee can.

We were glad to see those who came, and we missed the ones who didn't. Maybe next year!

Teacher: "Jimmy, if your father earned eighty dollars a week and gave our mother half, what would she have?"

Jimmy: "Heart failure."

The Bagpipe

On August 30th and 31st, members from the Ak-Sar-Ben Radio Club and the Douglas/Sarpy Counties AREC handled communication needs for the Omaha Open Water Ski Tournament. The event was held from 6:30 A.M. till 8:00 P.M. on both days at Carter Lake. The event was very successful and showed a lot of people the ability of amateur radio to supply communications for this purpose. Many of the contestants that were in the contest were so shocked at how we were able to provide immediate and accurate communications that they were going to approach the Amateur Radio Clubs in their respective areas for help in other tournaments held throughout the country.

My special thanks goes to the following Hams for their help in making this event very successful: WBØGQT, WBØNVL, WAØWRI, WBØMWB, WØRMB, WØGFQ, WAØZUR, WBØMNK, WAØJTW, WBØNGD, WAØODH, KØPQR, WAØGQG, K3CRF/Ø, WBØPFS (from Kansas City) and WA7VIL/Ø.

The following Hams should also be thanked for donating their equipment for this event: WAØDHU, KØQVL, WBØBOR, WBØBCB, and WBØCMC.

Again, I want to thank everyone who helped and everyone that gave up the use of 52 so we could have a clear frequency.

de WAØROP

P.S. Any volunteers for next year's tournament????

1975 REGATTA

By—Bob Lockwood, WAØDHU

The great river raft regatta 1975 got off to a good start on Sunday, August 30th, with 38 canoes entering the Missouri River at the Cottonwood Marina north of Blair for their race down the river to the Omaha Marina. Sunday found over 175 rafts following the same path down the river as they raced toward Omaha.

Ak-Sar-Ben Radio Club AREC was on the job both days supplying

communications for officials and the news media. Stations were set up at the Cottonwood Marina which was the starting point, at Wilson Island which is 10 miles south of Blair, at Dodge Park north of Omaha, and at the Omaha Marina, the finish line. Also, a mobile unit was set up in the press boat. A base station was utilized both days for relaying information to the news media.

Following is a chart showing assignments:

Location	Saturday	Sunday
Cottonwood Marina	KØDKM	WØOXT
Wilson Island	WØOXT	KØDKM
Dodge Park	WBØPGX plus KØDKM	WAØABT plus WØOXT
Omaha Marina	WAØORC plus WØOXT	WBØPGX plus KØDKM
Press Boat	WAØDHU	WAØDHU
Base	WBØBMV	WAØCMK

In addition, WBØBKZ stood watch at the Mormon Bridge. He radioed in an overturned raft at that point. The crew was later helped by a passing boat. We kept the Coast Guard informed of the incident.

The AREC had two major exercises

on the Labor Day weekend and did an outstanding job on both. Once again Omaha amateurs performed valuable public service utilizing communications of a professional quality. Nice job well done!

31 August 1975

Ak-Sar-Ben Radio Club, Inc.
Omaha, Nebraska

Greetings from far Northwest. Busy on house between trips. Spent time at Lake Louise and Banff. Canadian Hams very friendly. I can contact Kimberly, B. C., 34-94, 60 miles north (antenna on 7500 ft. mt.) and Mt.

Spokane 120 miles southwest, 34-94. Tried 40 but my generator too noisy. Hope to be back at convention in mid-October. Came back from the P.N.E. at Vancouver, B. C. The VE7BAR Ham Club had a nice boat and were all very interesting.

Damon Nuckols, WØUIO/7
Star Route #2, Box 199
Bonners Ferry, Idaho 83805

SILENT KEY

Jerry D. Novotny, KØKKP
5450 South 50th Avenue
Omaha, NE 68117
September 4, 1975

Our sincere sympathy to Josephine Novotny and family in their loss. Jerry passed away suddenly as the result of a heart attack. Both KØKKP and his XYL joined the Club in May 1974

We quote the following letter which was received from the Carter Lake Water Ski Club, Inc.:

September 3, 1975

Ak-Sar-Ben Radio Club
Mr. Rick Stansbury
Coordinator - 1975 Omaha Open
9348 Camden Ave.
Omaha, Nebraska 68134

Dear Rick:

The Carter Lake Water Ski Club wishes to sincerely thank you and the Ak-Sar-Ben Radio Club for their work at the highly successful 1975 Omaha Open Water Ski Tournament. They were most helpful and necessary. Their presence at the site took a great load off our minds. They did a most outstanding job and we greatly appreciate their presence and assistance.

Sincerely,

Signed Walt Peterson, Tournament
Chairman
and Bud Piercy, Assist. Tournament
Chairman, Chief Judge.

October 1975

ARMS ANNUAL CONVENTION

Gentlemen:

Back in June the Amateur Radio Missionary Service held their annual convention at Grace Bible Institute here in Omaha. Radio operators from sixteen states converged on our city for that weekend. It also was a field day weekend. It was great to have the 34/94 repeater available as a "talk-in" convenience.

In appreciation of the use of the repeater as well as the interest and cooperation of the local "hams" in helping the visiting "hams," the Executive Committee of the ARMS voted unanimously that a cash donation be sent to the repeater fund. Enclosed is my check for the amount so designated. As you can see from the date on the check this action was taken back in June. I must assume full responsibility for this being so late. Please forgive me.

On behalf of the ARMS,
Nat Perry, WØOCZ
Convention Chairman
September 12, 1975

(Ed. Note: Sincere thanks to the members of ARMS for the generous contribution.)

A young lawyer pleading his first case had been retained by a farmer to prosecute a railway company for killing 24 hogs. He wanted to impress the jury with the magnitude of the injury.

"Twenty-four hogs, gentlemen!
Twice the number there is in the jury
box!"

Hejaz Commentator

HAM HUM

Page 5

DOES YOUR RECEIVER NEED ALIGNMENT?

By: Jim Sellers, K9ZBM

How many times have you said to yourself, "I wish my receiver had better ears" and thought about adding that latest RF pre-amp advertised in "73" or "QST"?

Before you go out and plunk down your hard earned bucks for that new gadget, maybe it would be worth your time to look into that FM receiver of yours and see if it is properly aligned or in need of alignment. If it needs alignment, you may be pleasantly surprised at the improved performance.

First, the basic items needed are:

(1) a frequency counter capable of reaching the receiver's operating frequency, (2) a signal generator with a calibrated attenuator and (3) an AC VTVM (a suitable VOM with a decibel scale will do).

Next, after setting up the equipment and allowing the generator and counter to warm up, connect the VTVM to the speaker terminals, open the squelch, turn up the volume to a reference point and apply an on-frequency signal. Note how much signal is required to "quiet" the receiver (manufacturers usually specify a 20 dB quieting point).

If your receiver "met specs" you're home free. Sometimes you can better the manufacturer's specs by tweeking the RF stages carefully. But, before you do, consult the receiver manual.

If your receiver didn't meet specs by a few tenths of a microvolt, careful realignment will probably improve its sensitivity. First, check the discriminator idling voltage. It should be near

zero on the 0-1 volt scale of your VOM. If it didn't idle near zero, the lo-IF and discriminator frequencies are not lined up with each other.

Apply a 455 KHz or 290 KHz (depending on the receiver) signal near the discriminator and realign it. It should idle near zero now. If your receiver has a "Quadrature detector," simply apply a modulated 455 KHz signal and tune for maximum audio output.

Next, using a pickup loop connected to the counter, measure and adjust the first oscillator frequency, or check the signal generator with the counter and apply a signal to the receiver. Adjust the first oscillator trimmer for a "zero" discriminator reading. Then reduce the generator output to about the receiver's 20 dB quieting point and adjust the RF stages and hi-IFs for minimum noise, taking care to reduce the generator output as the receiver sensitivity improves.

Recheck the receiver's 20 dB quieting point and compare with your original measurement. Hopefully these efforts will have been worth your time and effort.

Happy Listening!

de N.E. Indiana UYF Associates

PUTTING UP A NEW TOWER, FRIEND?

By - WBØCMC

For obtaining a permit to erect any and all antenna towers in the City of Omaha, the following is the required procedure:

1. Sketch 3 copies of the proposed structure and take them to Police Communications for approval (it's at Police HQ, 911 Fireboard). Don't ask why, 'cause I'll tell you it's bureaucratic red tape. (Ed. Note: The other answer is because we have always done it this way.)
2. Take your 3 approved copies to City Hall, Permits and Inspection, for a building permit. (\$1.00 / \$250.00 cost of tower). If it's less than 44 feet, you're done; they'll send it to you.
3. If it's over 44 feet, it will cost an extra \$15.00 for the Zoning Board of Appeals. Fill out the forms while you are there, pay your \$16.00 or \$17.00, and then go home and get a written statement from your neighbors on either side (only one side if a corner lot) to the effect they have no objection to your putting up a tower. Take this to the Board of Appeals when your turn comes. The Board will notify you of your time and place for appearance.
4. Sit quietly and wait.

A SPECIAL THANKS

On September 4, the impossible finally happened. I went to Kansas City and passed my general exam. I would like to publicly thank those people that spent their time to help me study and practice for the code portion of the test. This thanks goes to: KØHHP, WAØDHU, WBØDRS, WBØMQK, WØNVE and WAØTTW.

October 1975

HAM HUM

I would also like to give a *Very Special Thanks* to Bill Leatherwood, WAØZUR. Bill gave up his lunch hour for about two months to help me with my code. Again, thanks Bill!!!

It is people like these who make me proud to be a part of the fantastic Amateur Radio Fraternity.

de WAØROP

A WORD OF WARNING – from the Akron Ohio area which sent the report of one amateur who rather carelessly announced his location at one of the shopping malls over the local 2-meter repeater. He also announced that he would be back in the car after doing a few hours of shopping. Needless to say, thieves also did some shopping in his absence, and when the unlucky ham returned to his car, all ham equipment and stereo tape deck had taken their leave. Obviously, no one can restrict the use of scanning receivers which often manage to copy more than one station at a time; as a result the burglary rings can now not only be alerted to approaching police, but can also pick out new targets. A further report from one of the radio distributors states that callbook sales are on the rise, but the sales aren't made to hams; apparently the above mentioned groups have also found that your basements can be cleaned up and out when vacations are due and discussed on the air.

WESTPARK RADIOPS
February '75 Zero Beat
de Grid Leak, PUEBLO, COLO.

Page 7

FACTS FOR ALL OF US!

If you don't do anything else today,
Please Read This Letter!

Dear Driver:

A few weeks ago, I saw a little girl struck by a car as she tried to cross the street. I saw a father race toward her and hold her to him as she struggled in the agony of death. I saw all the plans that had been made for her dashed, and I saw the look of despair that came over his face. I could only offer a prayer that such a thing might never happen again.

Today my daughter, who is 6 years old, started off to school. Her cocker spaniel, whose name is Scoot, watched her leave and whined his belief in the folly of education.

Tonight we talked about school. She told me about the girl who sits in front of her, a girl with yellow curls, and about the boy across the aisle who makes faces; about the teacher who has eyes in the back of her head; about the trees in the school yard and the big girl who does not believe in Santa Claus.

We talked about a lot of things – tremendously vital and unimportant things.

Now, as this is written, she is sound asleep with her doll "Paddy" in her arms.

When her dolls get broken or her finger gets cut or her head gets bumped, I can fix them. But when she starts across the street – then, Mr. Driver, she is in your hands.

Much as I wish I could, it's not possible for me to be with her all the time. I have to work to pay for her home, her clothes, her education.

So, Mr. Driver, please help me to look out for her. Please drive carefully. Please drive slowly past schools and at intersections. And please remember that sometimes children run from behind parked cars.

Please don't run over my little girl.

With deepest thanks for whatever you can do for her, I am,

Very sincerely yours,
A FATHER
* * *

The Elmira (New York) Advertiser made the following observation on the above letter: "If any driver can resist its appeal, he has no business with a driver's license."

de MIDWEST CB9er's

GOLDEN MC AWARD

K9KCM WINS

This month's Golden Mike award goes to a repeater user who is a member of CFMC and is heard infrequently. When he was heard, he did not identify. Here is the sequence of transmissions:

K9KCM, this is WA9NSO. Cal, are you there?

Ten Four.

What is your ten twenty?

I am home.

OK. See you later. WA9NSO clear.
(No further transmissions)

It sounds like CB chatter on channel 9. This month we zap Cal, admonish Gary for improper sign-out.

K9RRF, after learning of his Golden Mike award last month said, "I have reached the pinnacle of success." We wish him a speedy recovery and

NEW IDEAS

hope he will be back playing tennis by the time he reads this. When WB9GMO asked K9HMB what happened to RRF, Frank explained, "He was driving and someone said 'look at [him]!' Dick turned his head and [he] turned his back."

WA9QGY in QSO with our esteemed president, WA9LRI and two others, left the round table by saying "WA9QGY clear." Poor procedure and illegal. Here are some more operators who did the same thing: K9DVC, WB9KDL, WB9LUE, W9MOL.

K9KEJ broke in to offer phonetics for WB9KSF. KEJ said, "Kosher sausage factory." Great phonetics, but illegal procedure.

Overheard at Dayton: With all he drank, we should call Jim the Beer Drinking Souse (referring to WB9BDS). Incidentally, Jim is the big wheel on the tech committee and has done a superb job.

On 5/8 WA9RPD called a station while the repeater was in use. How long did Ron listen?

WB9GPM who used "George Porge Morge" suggested the Golden Mike award be changed to the Golden LAP award because WB9LAP is mentioned so often. Howard (LAP) has been critical of the column because he wants it to be funnier.

K9KEJ signed only with his call. Shame on Orrin. 5/21.

W9MOL gracefully accepted his award for last month and acknowledged his error. Thank you Lee.

de CFMC

Speak when you're angry and you'll make the best speech you'll ever regret.

— John S. Swift Co., Inc.

A man worked in a printing plant once who had poor health. He found that it helped him in his work to stand on a rubber mat. The shock of the machinery was lessened, and he had more strength for his work.

Other workers in the shop noticed the mat, thought it was a fine idea, and whenever he would leave the machine, they would come and borrow the mat. The printer would come back and find the mat gone. Displeased with this arrangement, the printer thought to improve the rubber mat idea. He cut pieces of rubber into little squares and nailed them on the soles of his shoes. In this way he carried his mat with him wherever he went.

It worked so well that the other men in the shop came along and asked him to make rubber mats for their shoes. Before long, the "rubber mat man" was busy every noon cutting out rubber heels for his shop mates.

The man's name was O'Sullivan.

Now, those rubber heels are made by the hundreds of thousands, and sold all over the world. The business was born when O'Sullivan let an idea come into his head. The little idea developed into a great industry that has made life easier for thousands of men and women.

That wasn't the last idea in the world. For every old idea there are a thousand new ones, undiscovered and untried. Next to character, ideas are the most valuable things. And it doesn't take any money to get one!

de Pueblo Grid Leak

I C BUILDING PROJECTS

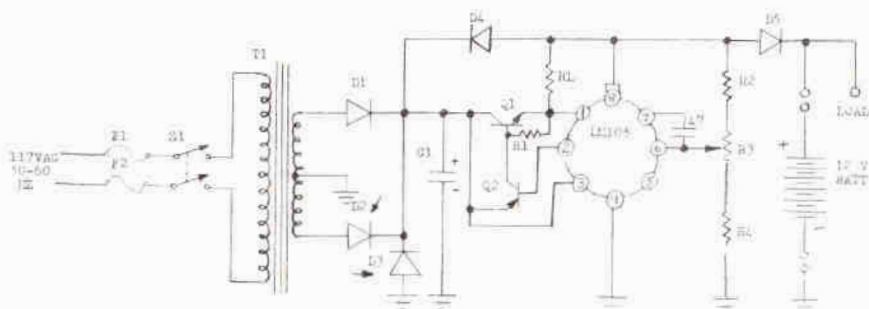
This month's building project is a very versatile, short proof, variable 12 VDC power supply. The supply may be used as a fixed source or varied over a range of approximately 6 to 14 VDC. The supply is designed to deliver up to 1 amp at 12 volts; however, loads in excess of this current may be drawn with interesting results. When the current limiting threshold of the LM105 is reached, the supply essentially becomes a constant current source independent of output voltage below a predetermined level.

One application would be a lead-acid battery charger supplying a constant charge current until a selectable predetermined battery voltage is reached. Once this battery voltage is reached the charge would decrease to a trickle. This supply has been used to simultaneously supply a load and charge a battery as illustrated in the schematic. To use the circuit

as a straight voltage supply, D5 and the battery are removed from the circuit.

RL is a combination of four 1 ohm resistors in parallel. RL is the resistance that determines the short circuit current that can be drawn from the supply, the lower the resistance the higher the short circuit current. R2, R3 and R4 determine the voltage output of the supply. These are about the optimum values for a 12VDC output. R3 varies the output voltage above and below 12VDC. The LM105 provides voltage regulation and current sense functions with the combination of Q1 and Q2 boosting the power handling capabilities of the regulator. D3, D4 and D5 are protection diodes for the circuit. T1, D1, D2, and C1 form a conventional full wave center tapped supply to the input of the regulator.

73, Gene Carlson, WA6FRQ



F-1, F-2 1 amp
D-1, D-4 2 amp 100 PIV
C-1 20,000 MFD 30 VDC
Q-1 2N3055
Q-2 2N4918
R-1 68 ohm half watt

R-1 see text
R-2 12,000 ohm half watt
R-3 3,000 ohm pct
R-4 1,800 ohm
D-5 6 amp 100 PIV
T-1 30 VCT 1.2 amp sec 117 v. Fr.,

de FRESNO SKIP

HAM HUM

HAM HUM SWAP

- WANTED: Heathkit "Senneca" or similar 2 and 6 meter xmtr.
- FOR SALE & TRADE: Pair (2) 40 MHz beams with all stacking hardware. Very rugged construction. Will trade for rotor or make offer.
Bill Frost, WBØMAH/Ø, 2245 Calvert, Lincoln, NE 68502
Phone: (402) 432-3219
- FOR SALE: Yaesu FT 101-B, only 1 hour use, with muffin fan, mike manual, etc. \$595.00 plus shipping.
Dave Hollander, W6COJ, 225 So. Prospect St.,
Orange, CA 92669; (714) 541-9133 after 2000 PDT
- WANTED: To buy or borrow a maintenance manual for an ELDICO SBA-1 Single Side Band Slicer.
Chet Doll, KØPTG, 7806 Manderson,
Omaha, NE 68134; phone 571-1254.
- FOR SALE: 2 meter transceiver, standard SR-C826M with the following crystals: 94/94; 34/76; 76/76; 34/94; 22/82. Price \$195.00.
Contact Charles B. Juvenal, KØKKL
6923 "B" St., Omaha, NE 68106; phone 393-2650
- FOR SALE: 1 hp - 110/220V reversible motor, 1750 rpm, 3/4" keyed shaft - \$10.00. VHF 152 (10-6-2-M conv.) Make offer.
John Gebuhr, WBØCMC; phone: 553-6414
- FOR SALE: FROM THE ESTATE OF KØKKP
B&W Grid Dip meter w/coils-\$15.00; Sylvania VTVM Type 134-\$20.00; Heath VTVM Model V-4A-\$15.00; CDR TR44 Rotator-\$135.00; Mosley TA-33 JR-\$35.00; Calrad Microphone Mixer-\$3.00; Challenger P.A. System with 2 speakers-\$35.00; Hallicrafters SX96-\$115.00; Johnson Valiant and Frequency calibrator-\$125.00; Heath HD-10 Keyer-\$25.00; Johnson SWR/PWR Mtr-\$5.00; Johnson Low Pass Filter-\$5.00; Coaxial Antenna Switch-\$5.00; Johnson Viking Ranger-\$80.00; Trapped Vertical 40 Mtrs-\$25.00; Antenna T/R Switch-\$5.00; Aluminum Wire-\$1.00.
For further information, please contact Mrs. Jerry Novotny; 731-0161.



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de WØJJK



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