



Holmesburg Amateur Radio Club
 P.O. Box 6253 - Philadelphia, Pennsylvania 19136 - 215-271-8898
 "Serving the Community Through Ham Radio"

NEWSLETTER

PREZ SEZ

If you missed the last meeting you missed a good one. We had four representatives present from Bell of Pa. and they reviewed some interesting subjects including use of fiber optics to carry voice communications. To bring you up to date a purchase has been made for a backup Motorola Micor unit that will be a direct plug in plug out replacement for the main repeater. This unit arrived the other day and seems to be in great shape. Primary function is to eliminate any down of the repeater or auto patch. A decision has been made to suspend business meetings for July and August however a club sponsored SUMMER BASH is scheduled for August 1st at the home of N3CDW and K3RLE. This will be our only summer get together, details enclosed. Our next business meeting will be held at the Landmark Inn on Sunday, September 12th, 1982. (Note: Sept. 5 is the first Sunday but falls on Labor Day weekend this year.) Thanks, Tony Musero K3UKV, President of HARC.

QSL cards for W3VF event for October 24, 1982 have arrived and look real nice. This is the day we will operate a high frequency station from Penns Landing.

CHAVERIM BRUNCH BY RICH K3HIN

Several weeks ago Bill, W3QXT sent a notice about a brunch to be promoted by the Chaverim of Delaware Valley. Being undernourished like I am I looked at the menu and decided to go. I also decided to take my son and his yf. We arrived on a very wet rotten day, but I guessed that the Ham Fraternity would take care of that. Jay, W WA3IFY met us at the door and we proceeded to sign in and find a table (close to the food of course). After a short meeting we ate. Larry, BFQ and Herb IRE and their families were at our table.

Let me say I have been to some brunches, but this was outstanding. All you could eat and the food was excellent. After almost bursting we sat back and heard a delightful trio called the Balalika Gypsies, who played and sung music from the eastern countries and Israel. I must tip my hat to Bill, W3QXT for a great job of setting this up. or those of you that missed this, you sure don't know what you missed. Please try to make the next one. 73's

1982 • JULY • 1982 • JULY

- A ALFA
- B BRAVO
- C CHARLIE
- D DELTA
- E ECHO
- F FOXTROT
- G GOLF
- H HOTEL
- I INDIA
- J JULIETT
- K KILO
- L LIMA
- M MIKE
- N NOVEMBER
- O OSCAR
- P PAPA
- Q QUEBEC
- R ROMEO
- S SIERRA
- T TANGO
- U UNIFORM
- V VICTOR
- W WHISKEY
- X X-RAY
- Y YANKEE
- Z ZULU

From time to time, I hear on the repeater some real crazy phonetics. It would be much better to use the right ones, and it isn't very hard to memorize them. For anyone who would like to learn them, they are printed here. Cut them out - one for your base station - one for your mobile station.

AVOID USING CUTE ID'S

JAY WA3IFY

- A ALFA
- B BRAVO
- C CHARLIE
- D DELTA
- E ECHO
- F FOXTROT
- G GOLF
- H HOTEL
- I INDIA
- J JULIETT
- K KILO
- L LIMA
- M MIKE
- N NOVEMBER
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- S SIERRA
- T TANGO
- U UNIFORM
- V VICTOR
- W WHISKEY
- X X-RAY
- Y YANKEE
- Z ZULU

146.685 MHz



Calendar of events- - - July- - -

4th Independence Day

" Harrisburg Annual Firecracker Hamfest
Located at the Shellsville VFW Picnic Grounds
Exit 27 of I-81, north of Harrisburg, East of Exit 27
one mile. Talk in 16/76 or .52 simplex. For additional
details contact KA3HZW, 131 Livingston St., Harrisburg,
Penna. 17111. Telephone (717) 939-4957.

17-18 Ten-Ten Summer QSO Party.

26 El Weissman is scheduled to present the Pack Rat Moonbounce
DXpedition to Columbia South America to the Penn Wireless
Assn. this evening. If you missed his talk this is a good
chance to catch up on an outstanding presentation.
Contact El to find out location and time.

Attention Members: There will be no HARC business meeting in July
or August. Next scheduled business meeting will
be SEPTEMBER 12, 1982 at the Landmark Inn.

What do you think of a club picnic? Yes but it's on us. Yes the club
will sponsor a SUMMER B A S H on August 1, 1982 at the home of K3RLE
and N3CDW. This is a family outing. We will need manpower to hold
this event so if you would like to cook or be on this committee give
me a call, Tony K3UKW. We hope you will be part of this event.

Remember Saul, WB3JVV well he relocated to six land and if you would
like to write to him here is his new address: Saul Detofsky, 15339
Florwood, Lawndale, California. 90260. Telephone, (213) 675 2456.
He can be found on the 14.313 net on twenty meters daily.

CORRECTION: In our last newsletter it indicated that the 146.76 machine
was sold. It should of read the 146.79 repeater was sold
and now is the Lower Bucks Repeater Assn. Mail address
was correct as printed in that issue.

If you are aware of any ham function that may be upcoming let us know
by sending the information on a post card to the P.O.Box and we will
incorporate it in the months calendar when it is scheduled. Thanks.

NETWORK NEWS by Jim N2BVA

The operation of the net last week points up a serious problem
facing Amateur radio today. The formatipn and operation of the
network was greatly hampered by the deliberate and malicious
interference by unidentified radio transmissions.

Such wilful interference is regarded by the federal authorities
as a most serious matter, but the field forces of the F.C.C. are
limited by money problems. The few forces of the Commission are
spread filament thin trying to perform their widespread mission.

Amateur Radio has long been a self policing service. As a group we
accept the need for discipline and, because of that, we have been
able to enjoy our hobby as the crowding in the R.F. spectrum builds
up. Now, once again, the insane actions of a pitiful minority
threatens the welfare of the entire group of normal operators.

This situation can not be permitted to continue. If the Commission
can not locate these psychotic threats to our enjoyment of ham
radio then we hams must do the job ourselves.

No, I am not advocating putting on a ski mask and riding in the night.
I am suggesting we put in a little time using radio location tech -
niques.

Modern Doppler methods are far superior to the old loops of the
Hamfest fox hunts that were popular twenty years ago.

NETWORK NEWS (Cont'd)

Three Doppler shift locators properly sited around the city, and three mobile sniffers guided by the Doppler operators could trap any Banana Head in a short time. These facilities could be used to guide fox hunters in contests when not needed to track down the insane ones.

In view of the large number of repeaters in the greater Delaware Valley area it should be a simple task to raise a couple of thousand dollars to fund the Doppler stations, and the sniffer construction could be an interesting week-end construction project. Once the facilities were in place the formation of a VHF R.D.F. team would be a simple matter. Such a team could provide service over a large area of blighted amateur operations.

Think about this the next time a Banana Head spoils your QSO. Is it worth ten bucks to rid the air of these parasites who exist to spoil the pleasure of others? Think about this.

End of message. End of soap box. End of paper. See you on 685.

73 Jim, N2BVA

Technical Committee Report

As of Monday June 7th the voting system was installed, by the 9th it was adjusted and working about 90%. The results of testing show that the coverage is about what we expected. Some problems we have are intermod on the link from out of band signals which will bother the weaker signals on the N.E. input. We will correct it with some filters on the link receiver. Also the N.E. receiver has some fine tuning needed, and there is ignition noise from the Boulevard traffic which will bother weak signals, (we may have to live with it)!

Now what do you expect to hear from the link? Unless you have a good ear you won't be able to tell which one your hearing. Two squelch tails doesn't mean your on the N.E. input!! What that means is both inputs are hearing you and it selecting the better signal. The only sure way to tell is if the N.E. input id's when someone is talking on it; both transmitters id on their own bands, the high tone is two meter i.d. The low is 70 cm, they both time themselves differently. You may also hear half an id, if the N.E. starts and someone who is on lets go of there: > Mike in the middle of it, it does finish iding on 70 cm! Also the 70 cm id's WA3AOP/A.

You may hear some strange noises on the squelch tails if the intermod is on freq, the intermod will not key the repeater by itself. Nothing on the 70 cm link will key up except the proper signal from the N.E. input!

There may be spots that the selector can't make a decision, then usually the main location will select but, the reverse is also possible. There will still be good and bad spots for both locations can't expect miracles. Only time and tests will tell where its good or not.

Guess that covers it for now. See you on 6.85.

One more thing to report, we have our second micor unit, "A duplicate of the main one" now and we are preparing it for back up service.

73's
KB3SM Bob



HARC News Briefs by K3RBO

Yes, here's that column that has become a regular (or irregular) edition each month. I know all of you wait with baited breath to see if your name, call, and indiscretion will make the news this month. Well, read on, and we'll see who we can offend this time around. So here is the news that's fit to print. The source, as usual, is you, the regulars of 685.

Of course the big news this month is the re-installation of the MICOR repeater, lashing it together with all those wires, flashing lights, 430 MHz transmitters, receivers, PL's, voting units, etc., to get the main repeater and the Northeast Input in operation. As anyone who monitors the machine on a regular basis knows, it sure wasn't easy... Mr. Murphy had taken up residence at John, WB3BYM's house. But we haven't gotten the best repeater in the Philadelphia area because we have a lazy, untalented Technical Committee. The impossible just takes a little longer...

Everyone has been thanking and praising the Technical Committee for their efforts in getting the "system" on the air. No one can resist the temptation to test out the capabilities of the N.E. Input. Consequently, the writer has heard a lot of conversations that sound a lot like this:

"I'm in the basement, with one watt and my rubber duck, how am I making it?" -Rich, K3HIN

"I'm 90 miles away from the machine, looking at the Northeast Input, using my super duper blooper antenna, am I getting into the input?..... Can anybody copy?????" -WB3FFW

"I'm in my bad spot, two hundred feet below sea level, in a water fall, with 3 milliwatts, and no antenna, am I doing any better than I usually do" -K3RLE

"Herb, I'm hanging from the chandelier in the living room with the HT, can you copy me?" -N3CDW

"KERCHUNK, KERCHUNK, KERCHUNK..." - The kerchunker who couldn't make it before

Some people still have noise on their signal, even with the N.E. Input... Rich, K3HIN, is it possible you just have a noisey voice?

KL7ABC, you're gonna be noisey into the machine until we get that Anchorage input installed.

Congratulations are in order for the following:

- Dick, WB3EVY and his wife for the birth of a baby grandson, all the way up in Pawling, New York. Leave it to Dick to be a grandfather by DX. He was heard the other night calling CQ, Poughkeepsie, trying to get a phone patch into Pawling. It seems his phone bills put the national debt to shame. So anyway, here's Dick trying to get a phone patch into New York state on 40 meters, and a station from Yugoslavia calls him. And the guy wouldn't even run the patch.
- Bill and Sylvia Seble, W3QXT and SLF, respectively, for a new grandson. Rumor has it that Bill was at a Hamfest at the time of the birth. What a HAM!

Well, I'm out of space again, and maybe I've said enough!!

73



THE AGONY OF TIME OUT

DE K3JJZ

"You get the Golden Bagel Award."

"You timed out."

"The last thing I heard was...."

All of the above are comments heard on 685 when one exceeds the three minute timing cycle. Having fallen victim to the punishment and embarrassment of timing out the repeat, I decided to construct a "time-out" alarm.

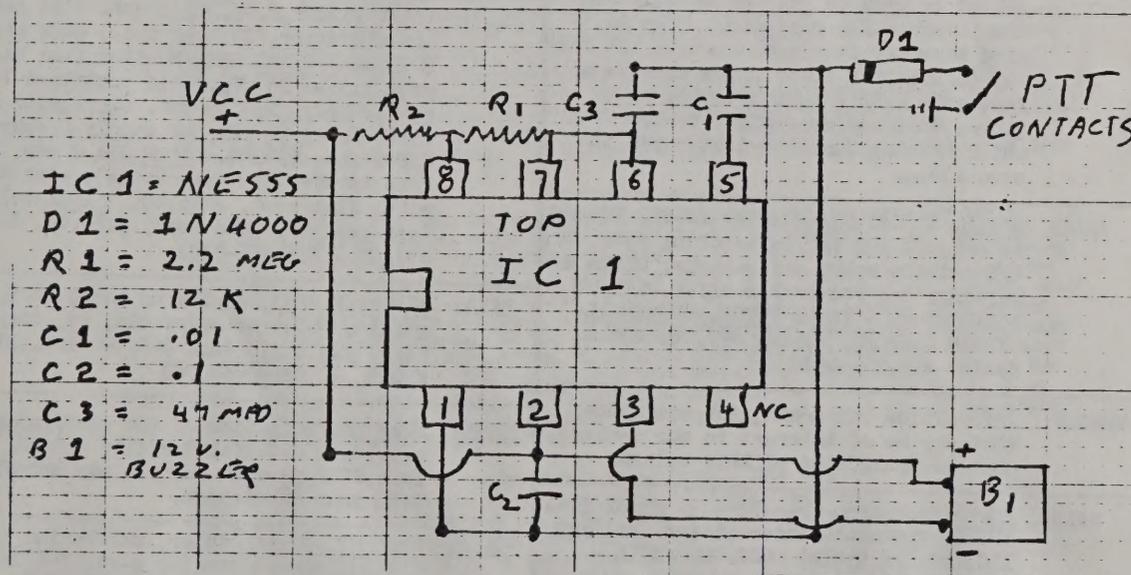
No longer would I be the recipient of the Golden Bagel Award!!!

The 555 timer chip has many application and my thanks to those who added to my store of reference material.

I make no claim for brilliant electronic design. What is shown in the diagram is more a result of trial and error rather than calculated precision, my timer, with the values shown, times out in 2 minutes and 30 seconds. Variations in the resistors and capacitors used will change the timing cycles.

The timer will operate on 9 to 15 volts and in my application is triggered by the PTT switch of the remote mike. The remote mike grounds in order to transmit, so I used it to complete the negative side of the power supply to the timer. In my case, the unit is powered either from the TR2400 or the D.C. mobile power supply.

Future modifications will be published as they become available.



**BUY ~ SELL ~ TRADE ~ OPPORTUNITIES** **JOB**

This service is provided free to HARC members. The club assumes no responsibility for the condition of any equipment offered. Space is provided on a first come basis. All insertions must be received by the editor of this column not later than the 5th of the month the HARC newsletter is scheduled for publication. The editor reserves the right to reject or revise any ad that in his opinion may bring discredit to the publication and/or HARC. Submit items to W. B. Soble, W3QXT by mail to 9357 Hoff Street, Phila., Pa. 19115. Please advise if your insertion produced successful results.

SALE: ICOM IC2AT Handy Talkie, Std. Chg., BP4 with nicads, spkr/mike. \$220.00. - COLLINS R390A .5 to 30 MHz, Xlnt. Cond. \$450.00 - HALLICRAFTERS HI37 Xmtr. \$175. SX-115 Triple conv. Rec. \$250.00 GUS - K3GYS, day 215-755-4960/609-767-3628 after 5:30 PM.

SALE: YAESU FT 101 EX transceiver, 10-80 mtrs, CW filter, hand mike. Xlnt Cond. \$450. DENNIS - KA3GHP. 215-627-7335

SALE: Pwr. supplies, home brew, clean & well built. 12 VDC at 4 amps and 12 VDA at 2 amps. 110 VAC input. Asking \$15.00 ea. YOSHI - KB3ZQ - 215-632-6034

SALE: ICOM 245/SSB w/matching AC pwr supply. Vy good cond. \$300.00. - KENWOOD 520 SE HF xcvr w/matching ant. tuner AT-200 and MC-50 desk mike. Like new. \$600.00 ED - N3CTB (ex WB3EBU) 215-676-4417 after 6:00 PM ONLY (Will Neg.)

NOTE: All of us want to get the maximum figure possible for our gear. Keep in mind however, it may be best in the long run to accept a lower price to make a fast sale rather than have the item gather dust and depreciate further while waiting for the right buyer to come along.

SALE: HEATH, DX60B, CW/AM xmtr. 10-80, 90 watt output, HG 10B VFO, w/matching rcvr. & T/R switch, spkr, and manuals. Clean & working. Any reasonable offer will be considered. - PHONE PATCH, UNIVERSAL HYBRID COUPLER, Asking \$30.00. RON - N3C10 215-271-8838

NEEDED: Information concerning job vacancies that may be of interest to our members. Contact the editor of this column.

SALE: HEATH Isolation Transformer, Model IT-1 100 to 200 watts intermittent. Voltage 110 VAC, variable. \$20.00. BILL - W3QXT - 676-6769.

SALE: COLLINS, "S" Line 75S3B, 32S3, Power Supply, CW filter. \$1,500.00 BRUCE - KB3TN -215-745-0383

SALE: TS-120S, MC-50 Microphone. \$450.00. JOE - WB3Euz - 215-423-0368

SALE: DRAKE L4B Amplifier, Xlnt cond. SID - K3SME - Can be contacted on 147.300 rprr.

SALE: DRAKE rcvr. 2C w/Q mult. and spkr. \$190. HA 460 6 mtr. AM xcvr with mobile ant. \$75.00 JAY - WA3IFY - 215-289-4531 NEG.

SALE: DRAKE C4 Console. Matches Drake "T" Series equipment. Contains clock, Ham M indicator, SWR bridge, phone patch, power output meter. Incl. Manual, relay box, AC control master. TONY - K3UKW 215-271-8898

SALE: KENWOOD (Trio) Scope, 6" screen, Zero to 5 MHz. Clean. Abt one year old. \$200.00 Will neg. YOSHI KB3ZQ 215-632-6034

SALE: YAESU FT207R, H.T., Dig. Synth, like new; spare battery, leather case, desk charger \$225.00 - DRAKE SP4 Monitor (Low band rec. 1.5 to 30 MHz. Self contained 110 AC pwr. supply, int. & ext. spkrs, with xtals \$395.00. ICOM 3PA pwr supply & spkr, 110 VAC input. \$30.00. ICOM 21A 2 mtr. xcvr. (can be used base or mobile), with desk mdke. Xlnt cont. \$275.00. TELEX teletype tape puncher, good cond. \$100.00. LARRY - WB3ACT - 215-342-3363

SALE: VIBROPLEX BUG, cast iron base, "original model". About 45 years old. Gd. cond. Mfr. plate missing. \$25.00 firm. BILL - W3QXT - 215-676-6769

WANTED: More participation of the membership in providing material for this column. This is a FREE service and you may benefit from your submission.

SALE: MARCONI RF xmtr tuner, WWI Marine type. (Navy). An antique for sure. T-335/1 \$15.00. BILL W3QXT 215-676-6769

YOU OUGHTTA BE IN PICTURES...

Dick Levy, WB3EVI

Well, if not in 'em... how about taking a few? You may ask what's an article on photography doing in a ham radio publication. I've had so many questions asked of me on the repeater about photography I thought this would be a good time to answer a few. It's spring time and summer is at a fast gallop right behind, immediately followed by you budding photographers anxious to record the wife and kiddies for all time. How about some shots of that new super-duper antenna installation?

So you see, there is a need for some info and I shall try to keep it simple; like me. One of the most often asked questions is what to buy for the first time out. I'm not trying to pry into your personal business but I always must ask how much you have to spend. The criteria these days is money. You get what you pay for (I hope). Most of you seem to pay for MORE than you need. All of you want more than you can afford.

Starting with an SLR (single lens reflex) in 35mm you will find there are as many models to choose from as Kenwood has low band gear. They are all good. It's really that simple. Staying with the top line manufacturers you will discover they all make quality cameras/lenses and only differ in bells and whistles. The state of the art has caught up to them all and most will offer good metering with a manual and auto mode. Smaller and lighter camera bodies are in right now. Good lenses are easy to find either from the manufacturer of the camera you want (or have) and from companies who make less expensive lenses out for the body in question. Some of the top line people are: Canon, Minolta, Nikon, Olympus, Pentax, to name a few. Vivitar and Tokina make nice lenses for most, if not all, the cameras mentioned.

So let's start from scratch and see what we might buy on a somewhat limited budget. Prepare for a bit of a shock though. That limited budget will usually bring you around \$300. Two ways to go. One- you could buy the camera and normal lens when you find it on sale. By the way, New York City is still the best place for super good buys. Two- you could buy just the camera body and pick up a used lens or buy one of those other brands. Confused? Wait a bit. How's this? Why not buy just the camera body and a zoom lens? Too expensive, you say. Think a little. Suppose you buy a Nikon FE with the normal (55mm) f2 lens. Let's assume the price was around \$275. It's a nice piece and Nikon lenses are fine. Later, you discover a need for a wide angle lens. So, you out you go to buy a 35mm wide angle lens. I'll guess around \$125. I think you know what's coming next. Right. Telephoto! If there is any thought that you will be going that route in the near future it might pay to try to make a good deal up front for one of the zoom lenses now available. They're smaller and better than ever before. Example: Tokina has a 35-105mm zoom lens that is sharp, clean, relatively light and can be purchased in NYC for around \$225. Couple that lens to a Nikon FE body that you wheeled and dealed for, and the saving in the long run could be enough for accessories you cannot live without.

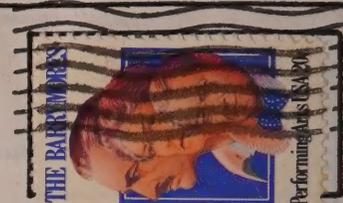
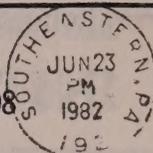
How about discontinued models? Don't let that phrase scare you off. Minolta came out with a new line and discontinued the SRT 101 and 201 models. Jack's camera shops were almost giving them away. A super buy of a nice camera that still serves its owners very well. Too old now, you say? No way! Those new bells and whistles won't do anything for you that you should be doing for yourself. Back to scratch; we need a body to house and transport the film. It also contains the focal plane shutter. Mirror and meter are in there too. Viewfinder should be clean and bright with a split image finder built in. That's better than white bread for us glasses wearers. Interchangable lenses are required too. All of the top line people offer all of the above. That's about it. The rest is what you want additional and what you can afford. Do you really need auto metering? Match needle works fine.

Motor drive? Poor baby is just too tired to crank the film by hand. How about this new innovation? Minolta has a liquid quartz readout on the back of the body that tells you everything and, I think, marks the film. If it could make coffee in the morning I'd think about buying one. There are many more little gems that can be built into the basic SLR and if your wallet can handle it and you cannot live without it... by all means buy it. Just keep in mind that most, if not all, the new SLRs are battery operated and some will shut down completely if the power source craps out. Others allow for one mode of operation in a mechanical setting. No meter-no auto this or that. As in radio, don't overload the power supply. One popular maker has LEDs in the viewfinder to display the meter setting. I tried it and spent so much time watching the little red lights go on and off I almost forgot what I was trying to photograph. Need I tell you the longevity of the silver oxide batteries was zilch!

We could go on and on and still not cover it all. Talk to others who own and use a piece you might be interested in. Same as buying a new rig. Drop in at your camera store and let the salesman show you a few SLRs. Handle them. Look through the viewfinder. Ask questions. Lots of questions. It's your money. Try to plan what your needs are and price range. Get the salesman to lay a few top line cameras side by side on the counter and you will see they aren't much different. The difference is really up to you.

So now you have your camera in your sweaty little hands. Why are you reading this then? Go out and take pictures! You ought'a.

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First Class

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W3AAU



NEWSLETTER

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