

IBULLETIN

ALBEMARLE AMATEUR RADIO CLUB

NOVEMBER 1996

Election Results

Here they are, the Albemarle Amateur Radio Club officers for 1997. The offices of President, Vice President, Secretary and Treasurer were uncontested. For the Directors, five officers were elected by written ballot. Congratulations to the winners, and thank you to all who were willing to serve.

President: Bill Bearden, KC4TQF
 Vice-President: Joe Giovanelli, W2PVY
 Secretary: Joe Fritz, KD4RWX
 Treasurer: Sharon Duvall, KO4OC

Directors: Rick Berman, KO4WQ
 Dave Damon, KE4YLR
 Hein Hvatum, N4FWA
 Bob Pattison, KM4DU
 Jessie Preston, KE4OID

November Club Meeting

Tuesday, November 12*
at 7:30 p.m.

National Radio Astronomy
Observatory Auditorium
Edgemont Road
(UVa area)

*Really. We counted.
Twice!



It's coming November 23, so keep studying those license manuals! See p. 2 for complete details on the VE Test Session this month.

Directory Available Soon

The 1996 Directory which was to be published in September will now come out in November as soon as the many new callsigns are assigned through the Vanity program. They will be mailed or handed out as soon as they are available.

Two new callsign changes of note:

KF4FRQ to W2HTJ
 W4OTF to K3RWH

from Joe Fritz, KD4RWX

Hams often mention winter as the perfect time to work on antennas and towers, this of course with tongue planted firmly in cheek. I've done my share of antenna work in inclement weather and it is definitely no fun! So, for once I learned from my mistakes and embarked on my most recent antenna adventure during a more pleasant time of the year.

Over the last couple of months I've been planning to put up a 40' rotating tower and I finally got started last week. I chose the easy way out and dug the hole with a backhoe. This was probably a good idea as the hole was 6' square and 4' deep. Digging that by hand would have taken over a day in the rocky soil, but with the backhoe it took about 15 minutes. I observed an old ham tradition and blessed the tower by burying a prized QSL card in the hole, hopefully that will bring some good DX! I then welded together a rebar reinforcing cage to go in the base.

The next stage was framing around the hole and pouring the concrete. By the time the hole and form were full to the top, close to 6.5 cubic yards of concrete had gone in. In case you're curious that works out to about 27,000 pounds of wet concrete. The exposed surface all had to be troweled to make it smooth and to create a slope for water runoff.

The last and most crucial stage was to scratch my initials into the hardening concrete. All that is left to do now is wait for the concrete to cure before I raise the tower and start attaching the antennas. No muss, no fuss, no frostbite!

I can definitely say that this job has been more pleasant than stringing dipoles in the snow or tuning a vertical during an icestorm. I think I'll do all of my antenna and tower work in the fall from now on!

73 de Pete, AD4TU

VE Test Session Planned

The AARC VE team will conduct an ARRL Examining Session on Saturday, November 23, 1996 at 9:30 AM. The test location is once again the Auditorium of NRAO, Edgemont Road, UVA grounds, in Charlottesville. **ADVANCE REGISTRATION IS REQUIRED.** To register, send the following items to John Gray, W6UZ, 110 Carrsbrook Court, Charlottesville, VA, 22901.

1. A completed FCC Form 610 dated November 1993 or later
2. A list of examination elements you desire to take
3. A check for \$ 6.05 made out to AARC VE Session
4. Photocopies of your current license and relevant CSCE's, if presently held

Registration materials should reach the VE team on or prior to November 20, 1996.

The code examinations will begin promptly at 9:30 AM with the theory exams following. You should bring to the examination session the following items:

1. Your CURRENT ORIGINAL Amateur Radio License, if any
2. Original of CSCE's for element credit you wish to claim
3. At least one pencil (#2 lead) and suitable eraser
4. An ink pen
5. Two forms of positive identification (in addition to your original license) from this list:
 - A photo ID plus one of the following, OR two of the following:
 - non-photo drivers license or other ID card (school or employer)
 - Birth certificate with appropriate seal
 - Passport
 - any business or personal correspondence addressed to you

For a Form 610 send a Stamped Self Addressed Envelope to the above address. Any questions contact John, W6UZ, at 973-1094.

IT'S GRADUATION TIME

Harry Dannals, W2HD

In a few short weeks after you read this column, the final class of this year's Novice/Tech course will have been held. VE exams are scheduled for the 23rd of November and it's GRADUATION TIME!

Many of us remember our graduations and others will soon have the experience, especially our younger AARC members. Yours truly recalls those days... many decades ago... as happy, expectant times in life. There were frequently parties and family gatherings to celebrate the occasion. There were parents thankful that tuition payments had finally ceased. There were the graduates wondering what the future had in store.



Yes, whether the graduation was from Kindergarten, Elementary or Middle School, High School or College, those were the days! It isn't much different for those completing their classes at CATEC. What will they receive for their FCC-assigned call? What type of greeting will they receive from their newly-found friends in Ham Radio? Surely these are fascinating times. Do you remember them?

It is almost certain that your first contact is indelibly recorded in your memory. You probably remember the call, time and date plus the circumstances of that contact. I do! Here are just a few points to remember as you say hello to these newly-licensed fellow Hams:

- 1) Welcome them with open arms,
- 2) Greet them as equals even if your decades of experience far exceed their hours, and
- 3) Provide constructive suggestions for their operating if theirs is not exactly correct (after all, take a look at some of those old Extra Class guys and gals... they aren't perfect!)

Help make this a special occasion for our newest Hams.

73... /s/ Harry, W2HD

AN/GRC-9

by Mike Dean, KE4UKX

The AN/GRC-9, or better know to me as Army Gear, is an old army radio that was built in June of 1956. It has bars across the front of it, I guess in case you drop it on its face. It's about two feet tall, a foot wide and a foot across made of sturdy metal. The AN/GRC-9 is army green, and it has a canvas backpack that you can open up from the front and operate with it still in the pack. The antenna sticks out of the top of the backpack. The manual said it was supposed to float!

We got the AN/GRC-9 at the BART hamfest in Baltimore. It was a long walk back to the car! Of course the AN/GRC-9 didn't work right away. It took my dad a while to fix it because there was tar on the dial. He had to take the whole front off the radio to clean the dial. It needed two tubes, and then it had to be tuned.

We had to order the antenna and backpack from Fair Radio. We didn't get the key until the Virginia Beach hamfest. It was still in the box and had never been used, so it was new even though it was pretty old.

The antenna is a whip that has its own bag that you have to carry separate. It comes apart into five pieces. It goes about eighteen feet high. The paddle is a black straight key attached to two metal straps that go around your leg. Your leg has to be pretty small to have the paddle fit. It barely fits me. You can also use a microphone.

The power supply is the same color and it's a Dynamotor that really hums when you set the radio to transmit. You have to look at a chart and tune it to get the transmitter close to where you want to transmit and then put the receiver there with a simpler dial. Then you have to set it so you can transmit, then set the dial from CW or PHONE to NET and tune it so you're transmitting on the same frequency you're receiving.

The AN/GRC-9 runs 20 watts on high power and 10 watts on low. It will do two through twelve MHz. I talked to Georgia on high power at 4 o'clock p.m. (EDT) on 40 meter CW from my back yard the very first time I used it.

Taking practice exams is a tremendous help when working towards a new license or upgrade. It is not only a confidence booster, but it also gives you an indication of which sections need more work. But how to find a practice test, especially one that is on the current question pool, and with the correct number questions per section?

Simon Twigger, AA9PW, has a site on the Internet: AA9PW's Amateur Radio Exam Practice Page. The url is: <http://www.biochem.mcw.edu/Postdocs/Simon/radio/exam.html>

It is possible to save the results for each exam you take, allowing you to see how you are doing on each question and each subelement. The data collected can even be used to tailor the generated examinations to ensure that you get asked all the questions from the pool and increased practice at the ones you get wrong.

Once you have registered your account, when you have completed an exam paper you should fill in your username and password at the end of the exam script. Your scores will be automatically added to your personal statistic file.

When you have taken at least one exam where you have correctly filled in your username/password, you will have a personal statistics file which you can view to see how you are doing. This can be done either from the end of the graded exam paper or from the opening page of this site. You simply enter your username and click the 'View Stats' button and your own results will be displayed.

After you have established your personal file with a few exam results stored in it, you can use these statistics to tailor the generated exams. The default method of exam generation is to select the questions at random from the question pool. This doesn't always ensure that you get asked all the questions from the pool.

In order to correct this you can use the "Selected" or "Personal Selection" option to customize the generated exams based on the results you have saved in your personal file.

By choosing the "selected" option, the exam generator will first compile a list for each subelement of the questions you have been asked the least. From this list you will be asked the questions you have answered incorrectly the most.

This way, you should get asked all the questions, and the questions you are having difficulty with will be asked before those you already know well.

Taking Exams Off-line

By using the Exams-by-Email interface it is possible to have exams generated and emailed to you, or to someone else, for later use. This might be used to simulate a real examination at home when you are away from the computer. The Remote E-mail Request enables those people without WWW access to request and receive generated examinations.

There are two ways of receiving generated exams by E-mail:

1. *Via the Exams-by-E-mail Form*

The Exams-by-E-mail page has a form which you can fill in indicating which exam you would like to receive and to

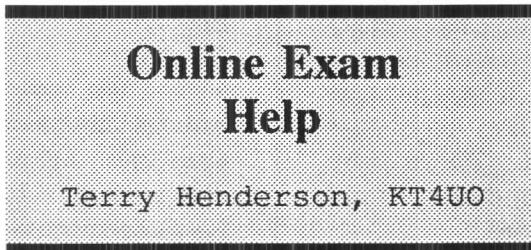
which E-mail address you would like the exam sent. Fill in the details, click on the appropriate button and the generated exam should be sent out in a very short time.

2. *By remote E-mail request*

You can also request exams by sending an E-mail to exams@eeyore.biochem.mcw.edu with the line "generate novice" as the body of the message. This is received by the server and a novice exam would be sent back to you. (For other license class exams, replace "novice" with any of the other exam names--technician, general, advanced or extra). If you would like more than one examination to be sent to you, add extra "generate exam_name" lines as required.

The above works for those who have only E-mail without WWW access: just E-mail the request for an exam and it will be emailed back. Granted, you don't get all the graphics and you have to grade the test yourself, but it works!

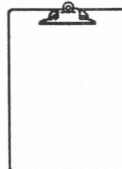
With the rare VE session coming to Charlottesville November 23, let's hit the WWW and see how many upgrades we can generate!



Public Service Events

Contact Hein, N4FWA, to sign up for this event.

HRS1 Saturday 2 November 1996
Montpelier Horse Race.



Microphones

by Joe Giovanelli, W2PVY

One day I was cruising the dial and stumbled on a conversation between two gentlemen, more or less like this:

"Can you tell me the difference between a dynamic mike and a crystal mike?"

"Yeah, the dynamic mike has a magnet and the crystal has glass in it."

I wondered how many people really do know what's in a microphone. This paper is written to fill this possible need.

IS A MICROPHONE A MICROPHONE?

Microphones vary in many ways. Aside from the obvious physical differences in size, weight and color, microphones operate using many different acoustical and electrical designs. There are dynamic, crystal, ribbon, condenser, variable reluctance, carbon, mikes, and who knows how many types I forgot to name?

The purpose of any mike is to convert sound energy into electrical energy suitable for amplification and other processing. Microphones are one kind of "transducer." That's a fancy name for a device which converts one kind of energy into another kind. A loudspeaker is another transducer.

THE DYNAMIC MICROPHONE

In essence, the dynamic mike consists of a diaphragm which is free to move when sound waves strike it. Attached to it is a coil of wire placed in the field of a permanent magnet.

We know that when a coil is moved in the vicinity of a magnetic circuit, a voltage is developed across the coil. This is the principle upon which electric generators operate.

When sound waves strike, or impinge, on the diaphragm, it moves, dragging the coil along with it. Because this coil moves within a magnetic field, a voltage is generated and is available to be amplified. The diaphragm's motion is very small, and so is the voltage developed across the coil (usually called a "voicecoil").

If you said to yourself that this description was just like that of a loudspeaker, you'd have been right. In this instance, a voltage introduced into the coil forces the diaphragm, or cone, to move. That motion forces air to move. The motion of the air is, of course, sound waves, and we hear the audio produced by the loudspeaker.

Dynamic microphones are usually very rugged in design so lend themselves well to mobile amateur radio operation. They can be made to have a reasonably wide and flat frequency response so are well suited for serious recording of music. Mikes used for amateur radio applications, on the other hand, do not need a wide frequency response. A range between perhaps 300 and 3,000 Hz is fine. If there are a few peaks in the upper part of this range, so much the better because these help punch through QRM. The frequency response of mikes used for amateur radio applications are, therefore tailored for communications requirements.

THE RIBBON MICROPHONE

Again we have a coil moving within a magnetic field with voltage produced across it. However, the coil and the diaphragm are one piece. Actually, this is a ribbon of very thin aluminum foil clamped at each end so it can be held within the magnetic circuit. In fact, the thickness of the ribbon is likely to be in the order of 1/10000 of an inch. Widths can range between 1/8-inch and perhaps a half inch.

The structure in front and behind the ribbon is open so that sound waves can strike it from both in front and from the rear. The ribbon moves and a voltage is produced. In effect, this is a coil consisting of a single turn. Because of this, the voltage produced from acoustical energy is very, very tiny. For this reason, the ribbon is connected to the primary of a step-up transformer to bring the voltage to a point where it will be above the electronics noise of amplifier components.

This mike design provides a very flat frequency response. Many serious recordists consider this to be the finest microphone type available. (I'm one of these.) Because the mike is open both in front of and behind the ribbon, its pickup pattern tends to be what is usually called a "figure eight" pattern. This can impose some limitations in its use.

The ribbon is very delicate. If the mike is dropped, the acoustic pressure of the air hitting the ribbon may be sufficient to break it. Strong winds can play havoc with these units, so they are not at all suited for outdoor work. They find little applications for use in amateur radio apparatus, but I mention this kind of mike for the sake of completeness. There are microphones which combine the dynamic and the ribbon elements into a single case. This design takes advantage of the phase relationships between the signal voltage produced by the ribbon and that by the dynamic element in order to obtain a unidirectional pattern with a minimum of acoustical complexity.

Stay tuned--Joe finishes his primer on microphones in next month's AARC Bulletin.

In the past couple of years, the Northern Piedmont Emergency Net (NPEN) has been activated several times. In June of 1995, we were activated for the flooding in Madison County, and shortly after for the flooding that threatened Sugar Hollow Reservoir. We were activated during the severe blizzard of the winter of 1995-1996 and again during heavy rains this spring. More recently, many club members assisted generously during Hurricane Fran. While the net is usually called into action by Kaye Harden, the Director of Emergency Services for the City of Charlottesville, Albemarle County and University of Virginia, it could be activated by any responsible official during an emergency that required additional communication service.

The NPEN meets in a regularly scheduled "on air" session each Thursday evening at 8:00PM local time on the AARC 146.76 repeater. These sessions result from a variety of needs of the amateur radio community. In the preamble which is given in some form each week, the NPEN meets "... for handling traffic, conducting ARES business, and to further the training and preparedness of amateurs so that they will be able to provide organized, efficient, and effective emergency communications." I believe this means that we have an established forum, in time and place, to pass traffic when necessary, present and discuss matters that pertain to ARES (Amateur Radio Emergency Services) and to devise and conduct exercises in emergency communication that help us be better prepared for that day that we are called on in an actual emergency situation.

To our credit over the past 2 years, when called on, the AARC has performed above and beyond to the degree that the feedback we receive from client agencies has never been less than outstanding. Congratulations to all on our performance. The training exercises and other operations of the NPEN are necessary to insure that we maintain that high standard of performance. But in that, the NPEN needs your input and assistance. We must press ourselves to perform in ever expanding ways so that there is nothing that might occur with which we have not had some experience in a training format.

First, the NPEN needs a large core of experienced net controls. Over the past several months, I have run several of the regularly scheduled nets. This was not my intention when I agreed to act as the local Emergency Coordinator. I have learned a lot from acting as net control, but we need others to start gaining this

"hands on" experience. The NPEN has a pool of competent and experienced net controls, particularly N4WJQ, N4PGS, and W2HD, but we need more, and I encourage others to join in this important aspect of training in the future. Second, we need to give serious thought to designing net exercises that stretch our abilities. Which brings me to the topic of the net of October 10.

Are we able to conduct a net exercise on packet? Why would we want to do this? I think that packet has a tremendous potential that we have not yet exploited. In a real and large scale emergency, packet would allow us to transmit large amounts of data that would be nearly impossible to transmit by voice. It would allow the transmission of information that would be more private than voice, could be accomplished in much less time, would not be susceptible to copying errors, and would automatically provide both hard copy and indelible record keeping. I think that it is easy to envision any

number of scenarios where these attributes would make a great deal of difference in our level of emergency communication. Packet has the capacity to provide much more than BBS communication, and we need to explore that capacity, we need to include packet radio in our emergency communication kit.

Many of us own and operate dual band rigs. While one of the capabilities of a modern dual band radio is the ability to cross band repeat, only a small number of club members have ever made use of this capacity. When would this be important? Let's say that we were called on to provide communication in a situation where we needed to have an operator in a position that offered a particularly poor path to the repeater. I recall hearing about a bike event in the valley this fall, where a poor operating position down in some hole was overcome by an amateur who set up a 2M beam, made a series of test transmissions, and found a reflection off a nearby hillside into the repeater. Well, it worked, but we can do better than that! We have many club members that could have stationed a mobile rig on higher ground and could have used that mobile rig to cross band into the repeater that was being used to coordinate the cycling event. But we have to get out and try it, not once, but from time to time, so that if this is the optimum solution to a communication situation, this is just one of the tools in our emergency operations kit.

The NPEN meets at the same time and place each week, and except for the occasional mobile checkin, we're all operating from our home stations. I don't need to point out that many stations (*see NPEN Net, p. 7*)

AARC and the Northern Piedmont Emergency Net

Dave Damon, KE4YLR

Minutes

(from p. 7) It was suggested that the Long Tone Zero project get initiated. A possible \$10 early sign up price and a \$15 price for those who sign up later was suggested. The units (kits) will be assembled by a group of volunteers.

Jessie (KE4OID) moved that we renew the pager service for next year. This device is an integral part of the local emergency procedures. Our club is cooperating in this process.

AARC Regular Meeting Minutes

Date: October 8, 1996

The following is the list of AARC member who were nominated by the Nomination Committee. No additional members were nominated for any position at the Club meeting. The officers were elected, individually, by a motion that the Secretary cast one vote. The Directors were elected by written ballot.

NOMINATIONS WHO WAS ELECTED

President: Bill Bearden, KC4TQF

Elected by motion to have Secretary cast 1 vote. So done.

Vice President: Joe Giovanelli, W2PVY. Elected by motion to have Secretary cast 1 vote. So done.

Secretary: Joe Fritz, KD4RWX. Elected by motion to have Secretary cast 1 vote. So done.

Treasurer: Sharon Duvall, KO4OC. Elected by motion to have Secretary cast 1 vote. So done.

Directors: [five (5) to be elected] Listed alphabetically:

Rick Berman, KO4WQ.....Elected by ballot
Don Bush, KE4DDR

Dave Damon, KE4YLR.....Elected by ballot
Mike Duvall, AC4ZQ

Hein Hvatum, N4FWA.....Elected by ballot
Clay Hillman W4LNT

Bob Kelsey, WB4CLN
Chuck Mills, WB4QKT

Bob Pattison, KM4DU.....Elected by ballot
Jessie Preston, KE4OID.....Elected by ballot

Wil Seay, KJ4XZ

During the Ballot counting, Harry (W2HD) demonstrated a variety of antennas suitable for enhancing the signal reception and transmission above the capabilities of a typical handheld's antenna.

The Red Cross letter was quoted from by the President. It recognized those individuals who

assisted the Red Cross recently. About 15 persons indicated they would like to be part of the Long Tone Zero kit purchasing project.

The Treasurer reported a balance of \$3053.64. The meeting was adjourned.

Respectfully submitted,

Joseph D. Fritz, Secretary of the A.A.R.C.

ALBEMARLE AMATEUR RADIO CLUB, INC. OCTOBER TREASURER'S REPORT

INCOME

Donations:

Hamfest Sales \$146.00

Repeater 140.00

Surplus Equipment 925.00

Total Donations 1211.00

Dues 1192.50

QST Subscriptions 13.00

Textbook Sales 136.00

Raffle 88.00

Total Income 2640.50

EXPENSES

Equipment 1354.32

Refreshments 227.21

Entertainment 715.82

Postage & Publishing 650.23

State Corporation Fee 25.00

Telephone 334.68

Insurance 297.31

Charity (Earlsville FD) 100.00

Field Day Expense 72.37

Recreation 50.00

Textbooks Purchased 157.40

Total Expenses 4054.34

TOTAL INCOME/ EXPENSE -1413.84

BALANCE FORWARD 4917.48

OVERALL TOTAL \$3503.64

Treasurer: Sharon Duvall, KO4OC

From the Editors

Our sincere apologies to anyone inconvenienced by the mistake in the date on last month's meeting announcement. (The trouble with leaving things to the last minute...)

November 21 is the deadline for December's *AARC Bulletin*. Send your articles to us at: 4300 Sylvan Lane, Charlottesville, 22911 (U.S. mail), or: wd9eia.zippo.com (email); or via Mike (KE4UKX) if you're using the club packet bulleting board.

73, Paul (WB9HGZ) and Eileen (WD9EIA)

NPEN Net

(from p. 6) stations. I don't need to point out that many stations have difficulties getting into the 146.76 repeater as a result of the intermod has been quite intense recently, but we are probably going to be asked to operate away from home in less than ideal circumstances. We need to know our own back yards, we need to know where we can and can't have reliable links to the local repeaters other than just the routes we take to work and back home in the evenings. The only way that we are going to gain this first hand knowledge of our own back yards is to get out and travel around the back roads, and we might as well be doing this as a net exercise. That's one more thing that we can put in our emergency communications kit.

The NPEN needs your input, your ideas, your experience. Any two of our club members together can generate more input in a minute than I can in several hours. W2PVY often says that there are no stupid questions, just less intelligent answers. Here too, there are no stupid suggestions, just some that are more practical than others, some that stand on their own, and some that give rise to others, but we need them all. Whatever you might think of, don't hold back, we need all the ideas and suggestions that you have.

Third and finally, for this month at any rate, we need to put this all together into a workable package. N4PGS, AD4TU, KC4UCK and N6AAR have been a great help in focusing my attention toward a long range plan of training. We have had some meetings to discuss these issues and will have more. Currently, N4PGS is preparing a manual for operating at the sites where we have emergency antennas. These are the 911 Center, the Red Cross Center on Rose Hill Drive, the Communications Bus, Martha Jefferson Hospital, the University of Virginia Hospital, Western Albemarle Fire and Rescue Building, and Lake Monticello Fire and Rescue. N4PGS and AD4TU have acted as net control on October 17 and 24 respectively. Anyone who is a member of the AARC or our local ARES/RACES structure is encouraged to consider acting as net control, we may be called on in a situation where we need a large pool of net controls. For some of you, this aspect may not be of interest, but others may have talents in this area that will never be realized until given an opportunity.

Thanks to all the stations that have been participating in the NPEN over that last couple of months. If you haven't been participating, or have been an irregular participant, come on and join the fun. You never can tell what might be happening that evening, it just might be something to which you can make a valuable contribution. We need all our club members in the AARC Emergency Communications Kit.



CLUB BUSINESS

Albemarle Amateur Radio Club
October 1996 MINUTES

AARC Board Meeting Date: October 1, 1996

Members present: Pete, AD4TU; Greg, N4PGS; Joe, KD4RWX; Sharon, KO4OC; Hein, N4FWA; Rick, KO4WQ; Ron, K4RKA; Jessie, KE4OID

A motion was made to have the Club purchase a circulator (currently installed on the 146.925 repeater) from Henry Fuller (KD4CQX) for the amount of \$75 and a 1 year Club membership (1997). The motion passed. The device has been installed, while on loan, for some time.

Grass cutting at the Carters Mountain repeater site needs to be better organized for the 1997 season. Look for a more structured mowing schedule. There will be a need for volunteers on a regular basis. This is our cost for a great repeater site. Your work is better than money!

It was suggested that letters be sent to:

- Dave (WG4T) for services he has rendered to the Club for work done at the 146.925 repeater site
- The Director of NRAO for permitting the A.A.R.C to continue to use the NRAO facilities for Club meetings.

Pete, AD4TU, will formulate the letters and pass them to the Secretary to complete.

Notice is given that caution should be used in plugging additional equipment at the repeater site. The circuit breaker at the site should not be tripped due to trying to add too much load to the circuit. Current fuses are to be changed to make sure the equipment installed does not trip the breaker. In a word - no saws, drills, or new electrical devices should be connected to the ac outlet. Bring auxillary powered devices to use.

Plans are to add a preamp and a can to the 146.760 repeater.

A request from Sgt. Martin for our assistance in the modification of several pieces of equipment for speaker cutoff when headphones are attached. He offers to demonstrate the communication bus at some future meeting (recommended that the incoming Vice President look into this for a spring meeting).

A letter from the Red Cross concerning thanks for several of our Club members' assistance during their recent activity when hurricane Fran visited our area. (See Minutes, p. 8)



CLASSIFIED COLUMN

To list an item in this section that is NOT on the WA4TFZ packet bulletin board, contact Paul, WB9HGZ or Eileen, WD9EIA.

Amateur Radio Exam Dates for Virginia

- 11/02/96 (W5YI) Ben Hur. Charlie Poe, 540-546-2323
- 11/02/96 (ARRL) Portsmouth. Arthur A Thiemens, 804-484-2857
- 11/08/96 (ARRL) Galax. James Blythe, NX4B, 703-236-8672
- 11/14/96 (ARRL) Chesapeake. Pat Phelps, KE4URC, 757-421-9598
- 11/17/96 (ARRL) Lynchburg. Charles L Beard, AD4ST, 804-386-4651
- 11/17/96 (ARRL) Roanoke. Terrance V Vlug, 540-890-6782
- 11/18/96 (ARRL) Coeburn. Clinton W Hawkins Jr, 540-395-6595
- 11/23/96 (ARRL) Charlottesville. John D Gray, 804-973-1094
- 11/23/96 (ARRL) Fredericksburg. Carolyn or John Cavanagh, 540-373-7076
- 11/23/96 (ARRL) Manassas. Harry Vorhauer, 703-368-6050
- 11/23/96 (ARRL) Sterling. Michael Weber, 703-450-2304
- 11/30/96 (W5YI) Gloucester. Harry Kepley, N4THN, 804-642-3517

FOR SALE: TS430S HF TRANSCEIVER (9/5/96) Bob, KB4YQC, wants to sell a Kenwood TS430S hf transceiver with cw filter, ssb filter, and MARS modification. If interested call him at 293-9720.

FOR SALE: TH47 450 HANDHELD (9/5/96) Pete, KC4UCK, wants to sell a TH47 440 hand held with 2 batteries & leather carrying case for \$150. If interested, call him at 973-2941.

FOR SALE: SB101 HF TRANSCEIVER (9/12/96) Chuck, KS4NW, has for sale a SB101 hf xcvr w/pwr sup, mobile mount & suppy, manual and extra tubes. Good condition. If interested call 804 978-2865.

FOR SALE: ICOM 551D 6M RIG (10/10/96) Bob, N6AAR, wished to sell an Icom 551D all mode 6m rig with fm board, mobile mtg bkt & manuals. 977-1256.

WANTED: 15 VDC POWER SUPPLY (10/10/96) Brian, KF4FRP, is looking for a 15 VDC 1.5 Amp power supply to operate a Librex computer. Please call 804-589-7073.

FOR SALE: 2 METER MOBILE (10/17/96) Joe, W2PVY, wants to sell a Kenwood 7950 2m fm mobile xcvr, 5/50 watt, tone board, & mike for \$150. 804 589-1495.

FOR SALE: Complete HF station for \$600 firm. Consists of: Kenwood TS 430-S HF Transceiver, Astron RS-20A Power Supply, Kenwood SP-430 Speaker; Kenwood MC-60A matching Desk Microphone, and MFJ-941C Versa Tuner II Antenna Tuner. All like new. Call 804-589-2177. Franklin, KB4MUF

Remember, if you are interested in taking an Amateur Radio exam at any of these sites, CALL AHEAD for information. Not all test sites accept walk-in registrations.

NOVEMBER 1996						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
© Congratulations to the November Birthday Hams!					1	2 6-m net 50.200 8am HRS1- Montpelier Horse Race
3	4 INFO-NET 7:00 pm 220 Net 8:00 pm	5 Board and Technical Meeting 7:30 p.m. Election Day	6 Lunch Old Country Buffet 11-1	7 ARES Net 8:00 pm ©KD4TOR	8 ©W4CZY ©KC4UCK	9 6-m net 50.200 8am
10 ©KE4NNT ©KE4UKZ ©WA3ULH	11 INFO-NET 7:00 pm 220 Net 8:00 pm Veteran's Day	12 AARC Meeting 7:30 pm ©KD4NNL	13 Lunch Old Country Buffet 11-1	14 ARES Net 8:00 pm	15	16 6-m net 50.200 8am
17	18 INFO-NET 7:00 pm 220 Net 8:00 pm ©N4WJQ	19	20 Lunch Old Country Buffet 11-1	21 ARES Net 8:00 pm	22	23 6-m net 50.200 8am Amateur Radio Test Session 9 a.m. ©N2YDW
24 ©KD4CUA	25 INFO-NET 7:00 pm 220 Net 8:00 pm	26	27 Lunch Old Country Buffet 11-1	28 ARES Net 8:00 pm ©W4LNT Thanksgiving	29 ©KF4MEF	30 6-m net 50.200 8am

1996 ALBEMARLE AMATEUR RADIO CLUB

OFFICERS AND BOARD MEMBERS

President	Pete Wildman	AD4TU
Vice-President	Greg Faust	N4PGS
Treasurer	Sharon Duvall	KO4OC
Secretary	Joe Fritz	KD4RWX
Directors:	Rick Berman	KO4WQ
	Mike Duvall	AC4ZQ
	Hein Hvatum	N4FWA
	Jessie Preston	KE4OID
	Ron Richey	K4RKA

COMMITTEE LEADERS

	<u>Committee Chairman</u>	<u>Director</u>
Technical	Mike Duvall AC4ZQ	Hein Hvatum N4FWA
Education	Harry Dannals W2HD	Rick Berman KO4WQ
Fundraising	Bob Pattison KM4DU	Sharon Duvall KO4OC
Activities	Hein Hvatum N4FWA	Rick Berman KO4WQ
Awards	Joe Fritz KD4RWX	n/a
Recycling	Mike Duvall AC4ZQ	Ron Richey K4RKA
Digital	Greg Faust N4PGS	Mike Duvall AC4ZQ
Publication	Joe Fritz KD4RWX	

OTHER POSITIONS

ARRL Liaison	Brian Fox	KE4HIA
ARES/RACES Coordinator	Hein Hvatum	N4FWA
ARRL VE Coordinator	John Gray	W6UZ
Trustee (WA4TFZ)	Morris Jones	NM4R
Newsletter Editors	Paul Dean	WB9HGZ
	Eileen Dean	WD9EIA

CLUB MEETINGS

Regular Meeting: Second Tuesday of each month at 7:30 PM
 Board & Technical Meetings: First Tuesday of each month at 7:30 PM

Meetings are held at the National Radio Astronomy Observatory (NRAO) building, Edgemont Road (UVa area)

WA4TFZ REPEATERS

INPUT/OUTPUT	TONE ACCESS
146.160/146.760	88.5 (if enabled, DTMF 325* will produce temporary Tone off and 326* will turn Tone back on)
Door alarm OFF.....	DTMF 100*
Emergency Autopatch to access 911 Center.....	DTMF 911*
Emergency Autopatch to access VA State Police.....	DTMF 918*
Autopatch exit.....	DTMF 0*
Time.....	DTMF 10*
Tone status of repeater.....	DTMF 700*
146.325/146.925	88.5 Hz (if enabled) 223.160/224.760 no tone
449.250/444.250	151.4 Hz (if enabled) 145.030 MACHO node
145.030 CHO	WA4TFZ Packet Bulletin Board

NETS

Northern Piedmont Emergency Net

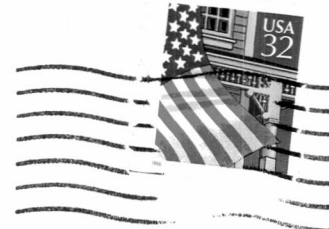
146.76 repeater Thursday 8:00 p.m.
 Plus Swap/Trade & Technical Sessions
 Net Control: Morris, NM4R

Information Net

146.76 repeater Monday 7:00 p.m.
 Newslines program and general news
 Net Control: Mark, N4TZE

Albemarle Amateur Radio Club
 P.O. Box 6833
 Charlottesville, VA 22906

AARC Bulletin
 November 1996



CORRECTION OF LABEL INFORMATION REQUESTED ---TO CORRECT CALL PHONE 973-1738 Y D
 KA4JJD N 1996 CURRENT MEMBER

Michael F. Rein
 109 Sturbridge Rd.
 Charlottesville VA 22901