



ALBEMARLE AMATEUR RADIO CLUB

AUGUST 1997

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☞ **Remember, no regular meeting at NRAO this month...see you at the picnic! (McIntire Park Shelter #1, starting around 6PM,)**

**Picnic Plans**

Jessie Preston, KE4OID

Well, you've done it again. Had food, had fun & learned something besides. And I was so happy to be a part of it. As usual everyone was so great with their participation. We have some wonderful cooks in this club. I'm looking forward to our picnic on August 12.

In case you missed Field Day, you will have a second opportunity to enjoy the fun and the food at the Annual AARC Picnic. The club will provide plates (I have these coming out of the ying-yang) as well as utensils, napkins, cups and the ever- present soda. (the non-toxic type)

We request that each family bring a food donation along with them. Please have enough for your family and to share with others. It's called a "Pot luck dinner". As Joe (W2PVY), President of Vice said last month, there should be a grill or two available to cook some burgers or dogs (non barkers) if you should desire to do so. Those you will need to supply for yourself. I would appreciate it if some people could plan to make some large containers of iced tea &/or lemonade as an alternate beverage.

If you have questions, need ideas or whatever, please feel free to call me. Thank you again for your continued support and participation in club activities. It just isn't the same without YOU!!

*(see p. 3 for more on the picnic from our VP, W2PVY)*

**Novice/Technician Class Begins**

**First meeting Wednesday - August 27, 1997 - 6:30 p.m. Charlottesville-Albemarle Technical Education Center, east of the railroad overpass bridge on East Rio Road .**

The 13-week course will cover the information which is tested on the FCC Novice Class and Technician Class License Exams. The length of the course is subject to modification which might make it last for fewer weeks. The Novice and Technician exams have been newly revised and now have 5 more questions each. The textbook has been revised to cover more in depth the RF Safety information emphasized now. For more information Contact: Joe Fritz (KD4RWX) 804 973-1738

Cost: Textbook about \$19. Newly updated for revised exams. If you wish to test for the Novice or Technician Plus license we will obtain CW study materials for you. Code tapes if desired about \$10 Computer code program (IBM or Mac) available.



## The President Speaks

July is now waning and we're preparing to partake of our Picnic meeting at McIntire Park. I am looking forward to the fellowship and good food. We have now put behind us another Field Day and several Public Service events. While there are still several more events to go before our season is officially over for 1997, at least we have a little bit more relaxed pace.

Speaking of Public Service events, I would like to mention one that is not really associated with either the AARC or the VARA, but in which hams play an important role nonetheless - the Tour de Valley. This is a one day bike tour covering 100 miles. A local bike group has been putting this thing together for a few years now and usually some local hams help out. For the past 2 years, Terry, KT4UO, has been basically overseeing the ham operations of this thing, and once again it's time to line things up. I have participated as a communicator in this Tour twice - once 3 years ago and again last year. This tour started as something for the local bike club, but over the past few years is has grown steadily and last year we had riders from NC, DC, MD, and all over Virginia. The folks who sponsor this thing are great folks and really appreciate the safety aspects that Amateur Radio brings them.

One of the things that I really enjoy about working events like this is that you get a chance to get outside and see the countryside. For those of you who have not seen much of the Valley, this is your chance to really get an eyeful. Last years Tour winded its way down to Rockfish Gap and the lunch stop was right on the river. While I'll admit that communications down there were awful, the scenery was nothing short of spectacular. The Tour is always held on the Sunday before Labor Day. This year, that date falls on August 31. If you're not going to be out of town or doing anything special, why not take a little drive, see the Valley, and help out. If you're interested, get hold of Terry. I'm looking forward to it....hope to see some of you there.

On another note - While we have had a relatively dry past few weeks, the thunderstorms have been cranking up this past week so I would like to take a few moments to remind everyone that if you hear any thunder or see any lightning - UNPLUG YOUR SHACK! Going to work for the day and the weatherman calls for possible rain or thunderstorms - UNPLUG YOUR SHACK! Going to the store and your "inclement weather" (see *PRESIDENT*, p. 3)

## VEEP CORNER

I enjoyed Field Day! If you did, we'll almost have a repeat of it in August when our club has its Annual Picnick. I guess the difference between Field Day and the Picnick is that we won't have all those tents and stations set up, but there will be plenty of food and fun.

Speaking of Field Day, we want to make this event better each year. Tell any Board member what you liked or what you would like improved. This IS your club, and we really want you to get the most from what goes on in it!

We're in an "idling" mode for a bit; there are no public service events that I know of (for now). We have no "fox hunts." We do have some excellent meetings coming along, however. See Upcoming Events elsewhere in this issue.

It takes manpower to plan and present monthly programs. It takes manpower to run public service activities. It takes manpower to prepare our newsletters. It takes manpower to write articles which you read each month.

Where am I going with this? It's very simple. The more members we have, the larger the pool we can draw from to supply all of this "manpower." (Woman power is great, too, and very much needed!) During almost every meeting we add new members and that's wonderful. Somewhere along the way, however, we lose members, and that's not wonderful. There are many reasons for this, including the fact that some members move out of the area. Others remain, and we really hate to see them leave us. You, who are reading this, may know someone who didn't renew his membership this year. If you do, would you please consider taking the time to ask him what happened. We know that, when he joined, he was excited! Where did the excitement go? Did we fail to encourage him in developing his interesting in our hobby? W2HD and others have written much about "elmering." Well, an "elmer" can sometimes be the gal or guy who says just the right word at the right time. That word could mean the difference between a member staying with us and one who leaves us. In the long run everybody in the club will thank you for taking time to talk to a former member. No, don't get out the sledge hammer and beat on him. Just a word to show we miss that person is fine.

Oh yeah! While you're at it, try to encourage members in their activities so they will feel a part of (see *VEEP*, p. 3)

## VEEP

(from p. 2) us. Have you ever been in a large group of folks who were enjoying an evening, but you seemed to be a "square peg in a round hole?" I sure have known that feeling, and maybe you have, too. That's why each of us should make those in our group feel that they are ONE OF US.

73 de Joe, W2PVY sk sk

## Upcoming Programs...

- ▶ The program for the AARC August meeting is... well, there is really no meeting and no program!! No! Don't stay home on August 12 or you'll miss our Annual AARC Picnick, to be held at McIntire Park, Shelter 1. There will be lots of daylight so be sure to bring the whole family. We'll start gathering around 6 to 6:30 P.M. We will supply sodas, plates, cups and utensils. Bring whatever you would like, and, if desired, a little extra to share with others. We will have a grill or two, but they will not be set up till about 7 P.M. Bring your appetite, and be prepared to have a wonderful evening of fun and food.
- ▶ If you attended Field Day, you know you won't want to miss the September meeting. It features a discussion of Amateur Satellite Communications, presented by one who knows his "birds," W4SM.
- ▶ The October presentation will deal with U.S. Coastguard communications, given by Jim WB4HMW. We have some idea about ARES communications, but perhaps we don't know all that much about Coastguard communications.
- ▶ November brings back a familiar face. This "face" will give us the latest "scoop" about APRS. GPS and packet. They all hang out together. If you come to the November meeting ( and who would stay home), you'll find out how.

## PRESIDENT

(from p. 2) knee starts acting up - UNPLUG YOUR SHACK! Do you see a pattern here? Antennas, towers, rotators, coax, etc will have to take their chances, but your new Kenwood TS-870 doesn't. The thunderstorm season isn't over yet so be prepared.

That's it for now...see everyone at the picnic.

KC4TQF

## Lady Ham Scales Repeater Tower

Joe Fritz, KD4RWX

Mike (AC4ZQ), Tom (AD4AD), Joe (KD4RWX) and Nancy (KF4MEF) recently made a trip to check out the repeater site and do some measurements for coax lengths which may be required for the repeater system's refurbishment. During the activity, Nancy (KF4MEF) climbed the old Forestry watchtower where the antennas are mounted. The climb was done to facilitate the determination of height of the antenna connection point above ground level. In doing so, Nancy may have become the first female Ham to scale the tower. She went up to about the 50-60 foot level. Three quivering male Hams were left standing on the ground reluctant to make the climb. They shall remain nameless even though they enjoyed the view of Charlottesville that same day.

Nancy is from Charlottesville and remembers when her brother and his male friends used to "run" up and down the mountain along a power line right-of-way cleared of trees. This was a "boy" thing - No girls allowed. My bet is that most of them would shy away from the walk up the tower now.

Nancy's gutsy climb was very much appreciated. Unfortunately, no picture is available. The camera did not have any film in it.



Reprinted courtesy October, 1947 QST



## HOW'S MY SIGNAL?

That's a familiar question asked on the air, whether it be on our local repeaters or on the HF bands. It's a

very good question, too, because we should be concerned about the quality of those radio signals transmitted by our equipment, whether they be C.W., S.S.B., FM, digital or whatever.

There are several methods which you can use even before you pose the question on the air to a fellow Ham. If you have a monitor receiver... a scanner, another HT, or some other equipment with the ability to hear your transmission... you can place a simple tape recorder near that device and record yourself. You can then listen to the recording and be very critical of your own signal. This method is even better than requesting someone else to tell you how you sound. You can be your own critic!

There are a few precautions to take when using the tape recording approach. You should be far enough from the transmitting signal so that you don't overload the receiver or "desense" it as you so often hear said on FM. The situation is similar when you monitor your C.W. or S.S.B. signal. You may even want to disconnect any antenna from the monitoring receiver.

Some modern transceivers have a "Monitor" arrangement where it is possible to monitor the transmitted signal. While you can listen to yourself talking, this isn't really a good method because you tend to hear your own voice resonances which confuse monitoring. However, it is possible to hear distortion or hum on the signal and they are often the problems you may wish to detect.

Personally, I use a monitor scope on the HF bands which permits a signal to be viewed in real time, whether C.W. or S.S.B. In this manner, any "flat-topping" can be readily detected and any clicks can be easily seen on C.W. The offer stands as frequently stated on the air: If you have a new rig or one you contemplate buying as used, it will be a pleasure to check power output and signal characteristics here at my "shack." There's actually a special motive for this offer other than helping your evaluation and it's an opportunity for me

to see new or unfamiliar gear in operation. Kinda like a "Consumer's Report" atmosphere!

Don't ever hesitate to ask for a critical report on your signal. If you don't ask, you may find that the situation is something on the order of "even your best friends won't tell you!" That's not going to help you one single bit. Soooooo, when are you going to ask, "How's my signal?" BCNU and 73...

/s/ Harry, W2HD

## Funshine Express!

Looking for something different? Want to explore the FUN side of Amateur Radio? Get involved in Funshine Express! Good with words? Volunteer to write a monthly Funshine Express column for the *AARC Bulletin*. Like to take pictures? Be our photographer! Into nostalgia? Keep the scrapbook.

On the list of upcoming activities are: contests, T-hunts, trips, youth activities, public relations events, and anything else the ideas committee comes up with. But to make it work, we need YOU!

To get involved, contact Dave Narducci, KF4NOP, at 973-6950 (home), 293-6500x6505 (work) or [dave.narducci@cho.ge.com](mailto:dave.narducci@cho.ge.com)

## Bits and Pieces

**Changes to Note** - Richard Dale's new call is K8EV (former call was KO4EV)

Grayson Dowell (KF4FYI) wishes to publish the following: phone #: 804 263-8552

Email address: [kf4fyi@aol.com](mailto:kf4fyi@aol.com)

**Greet the New Folks!** - Listen for new members Edward Searls (WA3SMG), Joe Gowdey (KF4IPL), Andy Emert (KF4RKQ) and Tony Moyers (KF4RKT)

**More Local Hams Find Media Fame** - Check the photos in the August issue of *QST* for a view of KF4NOP and KF4NOQ and their parade-sized HT. That's two months running AARC members appeared in *QST*!

# New Ham Partner

Part 3 in a series of articles for new hams by Gerry Crenshaw, WD4BIS, from Garland, Texas. Additional articles from Gerry will be coming your way as space in the AARC Bulletin permits.

## What's All This COAX Stuff, Anyway?

Gerry Crenshaw, WD4BIS, Garland, Texas

What's all this Coax stuff anyway? What type of Coax do I use? What do the Coax type numbers tell me? Why 50 Ohm coax?

Most of us use coax every day. We bought the antenna with coax attached or the radio instruction book said to use it. But why coax and not open line feeder cable in the 300 to 600 ohm range like they used to use? For that matter what's wrong with a wire right from the back of the radio.

A wire from the back of the radio presents some special problems. First the wire from the radio becomes part of the antenna and radiates as well as the antenna. This causes interference as well as affecting the antenna pattern. Second, a high voltage point appears in the antenna wire at, or near the connector. This is a serious fire hazard when you consider that most of us have to pass that wire through a wall of some kind and the wall is usually have wood or some other combustible in them.

Open line feeders solved some of these problems by balancing the currents between the feeder legs. The radiation field also tended to stay contained between the legs of the feeder line until the wire was split into antenna elements or legs. This minimized the interference or strong radiation fields in the shack. Tube amplifiers were also high output impedance devices, on the order of 2000 ohms. (Plate Load = Plate voltage (Typ. 1000v)/Plate current (Typ. 500ma)) so matching a tube amp with an output impedance of 2000 ohms to a 600 feed line only required 3.3 to 1 transformer.

This still leaves us with the problem of high voltage on the antenna line. Assume a power of 1000 watts, an impedance of 600 ohms and remember the formula for Voltage of  $E = \text{square root}(P \times R)$ . This leaves you a voltage of 774.596 volts. If the line Impedance is changed to 50 ohms this reduces the voltage on the antenna line to 223.6 Volts.

Coax came about to eliminate some of the high voltage problems and radiation problems. Coax by design is self shielding since the outside jacket is at ground potential. Because the inside conductor is insulated and shielded, hazardous voltage levels don't appear on the coax except at the antenna connection itself.

### Why 50 ohm Coax?

This is best answered in two parts. First, coax isn't all 50 ohm, it ranges in impedance value from 30 to 90 ohms. Second the lowest possible transmission loss occurs at about 70 to 80 ohms while the highest power handling occurs at about 30 ohms. Because of these factors a compromise between line loss and

power transfer was struck at 50 ohms. This explains however why Cable TV firms who have huge distribution networks still use 75 ohm coax.

### Coax Types

Coax is available to us by different Type Numbers. Most of us are familiar with 50 ohm cable types RG-58, RG-174, RG-213, RG-214, and 9913 and the 75 ohm cable types RG-59 and 783. Cable with a "RG" in the type number means "Registered", and all this really means is someone filled out the forms to register it, by itself this means nothing. Cables that are Mil Spec. qualified for lot certification (Per MIL-C-17D) will be listed as RG-XX/U.

The numbers between the letters were assigned in numerical order, from 1. This can be used to indicate only the products registration. For example an RG-8 coax was registered before the RG-213 coax.

Coax that is marked "RG-8 TYPE" means that these cables are similar in impedance, size, power handling ect. to the Mil Spec. qualified cables, but have never gone through the actual certification. For our application these will work fine.

### What Coax to Buy?

If you have looked at these coax types, they come in several diameters. Generally if you are going to be handling high power (200 plus Watts) or your coax runs are going to be very long (Over 100 feet) you need to be using one of the larger coax's such a RG-8, or RG-213.

If you are working the satellites and low line loss is a major concern, a coax such a 9913 or RG-214 should be used. The RG-214 coax is a double shielded RG-213 type coax and usually is a lot of trouble to find connectors for and work with.

For general use such as short runs for the car, a few jumpers for the shack or a length of coax for emergency use, RG-58 coax is a good choice. RG-58 is the least expensive of the coax types and serves very well for low to medium power applications in the HF to UHF regions.

### Surplus Coax

Coax can be found on the surplus market. But again caution should be the watchword. Much of the coax found on the surplus market are leftovers from the Cable TV industry. Avoid any coax with a Teflon dielectric. These were made for High Temperature/Hostile environment applications and usually have inferior signal handling characteristics compared to standard coax

Hard-line/Heliox type coax can be found in 50 ohm impedance, and there are coax connectors available for this type of coax. About the only application that justifies this type of coax is a repeater installation. Its expensive, hard to bend, hard to connectorize, hard to secure to a tower and its just plain heavy.

Any of the 50 ohm coax will work for our application. Choosing the best coax for you application will enhance your station operation. Using the best coax for your application can make the difference between being heard and being QRM.

73's and GL from WD4BIS, Gerry

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# AARC CODE PRACTICE DEVICE FOR LOAN

Joe Fritz, KD4RWX

The AARC has received a generous donation of an MFJ-411 Pocket Code Tutor from Bob Ross (W2BR). It is for use by Club members who are trying to start learning Morse Code or those who are trying to improve their code speed for upgrading. Joe (KD4RWX) has been chosen to manage the loaning process. Those individuals who wish to borrow the Code Tutor should contact Joe at 973-1738.

In the event of multiple requests, a random drawing will be made from a list of those Hams requesting to check out the unit. The unit may be checked out for a period of one month. It may be rechecked for 15 days if there are no requests pending at the renewal time. Priority will be given to Technicians wishing to pass the 5 wpm exam. The next priority will be for Technician Plus Hams wishing to pass a 13 wpm exam. Persons who already have computer software for code study will have less priority than those who do not have that capability. In absence of any pending requests, the unit may be used in the Novice/Technician class. The borrower is responsible for the safe return of the unit in a timely fashion. The unit has a replacement cost of about \$80. The club will furnish batteries to power the unit.

## GENERAL DESCRIPTION

The MFJ-411 Code Tutor is a microprocessor controlled device that can help a novice learn Morse code at up to sixty words-per-minute. This manual contains over 500 words, names, and call signs used in amateur radio, and a random QSO generator to simulate "on the air" contacts.

### Code Tutor Basic Operation

The Code Tutor has all the features needed for learning Morse Code individually or as part of a group. After the user has decided how to study code, the options may be easily adjusted on the Code Tutor.

### Speed

The word-per-minute speed may be set from 5-60 words-per-minute. The Novice and the Technician Plus levels have a 5 words-per-minute requirement. Both General and Advanced levels have a code requirement of 13 words-per-minute. Extra has a 20 words-per-minute requirement.

### Beginner Options

The beginner options are designed for those users who don't

know any code and need to learn the sounds of the characters. This mode allows selection of any one of seven character sets. The Code Tutor has the same sets as suggested by the ARRL for learning code. The sets are as follows:

C1:	EISHTMO	C5:	12345
C2:	AWJNDB	C6:	67890
C3:	UVGZKRPX	C7:	., ? / + SK =
C4:	FCLQY		

The Code Tutor sends each character set, in the order seen above, three times in succession. This allows the beginner to learn the sound of each character before sending random code. A novice will want to use the advanced options after becoming familiar with all the characters.

### Advanced Options

The advanced options are meant for the user who wants to increase code speed but already knows each character. The settings are as follows:

L: The letters A-Z

n: The numerals 0-9

P: The prosigns. . , ; : ' " / ? - \_ = \$ ( ) AL AR AS SN HH KA SK

ALL: All letters, numerals, and prosigns

rc: Random code words used in amateur radio. When "rc" is selected the Code Tutor will send random words from its internal database. Words like: rig, antenna, contest, mike, tuner, ground, etc.

cq: When cq is selected the Code Tutor sends entire random QSOs with the words in its database. This is the best way to study for a license test because it is the same format as the test! An example would be: CQ CQ DE KB5VKY KB5VKY KB5VKY KB5VKY DE KB5 JUN NAME ES JIM JIM UR 559 559 = QTH STARKVILLE MS = QSL? AR etc.

### Group

The group options set random word length and enable Farnsworth sending. All the characters are sent at 18 words-per-minute in Farnsworth mode but can be spaced to the code speed set with "SPEED." This technique is useful for helping the novice learn the sounds of the code characters instead of memorizing dots and dashes.

n: normal sending (non-Farnsworth)

F: Farnsworth (18 WPM character speed default word speed)

r: random word length (1 - 8 characters)

5: fixed 5 character words

--KD4RWX

## TEST SESSIONS IN VIRGINIA

08/09/97 (ARRL) Harrisonburg. Brown Snyder N4ZHV,  
703-434-3133  
08/09/97 (ARRL) Richmond. Pat Wilson N5PW  
804-932-9424  
08/13/97 (W5YI) South Boston. Charles D Lowery,  
804-572-1581  
08/14/97 (ARRL) Chesapeake. Pat Phelps KE4URC,  
757-421-9598  
08/14/97 (ARRL) Galax. David Roberts, 540-773-2446  
08/16/97 (W5YI) Richmond. Tony Amato, 804-717-2436  
08/16/97 (ARRL) Sterling. Michael Weber, 703-450-2304  
08/30/97 (W5YI) Clintwood. Mark W Mullins,  
540-926-8193

Remember, call ahead for test sessions. Not all sessions accept walk-ins.

### DEADLINE for the September issue of AARC Bulletin is August 20!

Send your articles to Paul (WB9HGZ) or Eileen (WD9EIA) at: 4300 Sylvan Lane, Charlottesville, 22911 (U.S. mail), or at wd9eia.zippo.com (email). To reach us through the club bulletin board, send your messages to Mike, KE4UKX, our resident packet operator, and he'll pass them along.

## AREA HAMFESTS

**July 27** - Baltimore RA Television Society, Timonium, MD. For information, contact: Robert Koblisch, N3HATPO Box 5915, Baltimore, MD 21282. 410-467-4634; E-mail: brats@smart.net

**August 3** - Shenandoah Valley ARC, Berryville, VA. For information, contact: Irvin Barb, W4DHU, Rt. 3, Box 5385, Berryville, VA 22611, 540-955-1745; E-mail: rixy@crosslink.net

**August 16** - Roanoke Valley ARC, Roanoke, VA. For information, contact: Ben Vlug, AD4UR, 239 Lynville Dr., Hardy, VA 24101, 540-890-6782; E-mail: ae4ew@ix.netcom.com

## Public Service Events 1997

Contact Hein, N4FWA, to sign up for events.

**DRL1 Thursday 18 September 1997**  
911 Emergency drill

**BKR7 Sunday 28 September 1997**  
State championships. Walnut Creek Park

**HRS1 Saturday 1 November 1997**  
Montpelier Horse Races

AUGUST 1997						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
© Congratulations to the August Birthday Hams!					1	2 6-m net 50.200 8am
3 ©KF4FRP	4 INFO-NET 7:00 pm 220 Net 8:00 pm ©KA4MCA	5 AARC Board and Technical Session	6 Lunch - Old Country Buffet 11-1 ©KD4NRE	7 ARES Net 8:00 pm ©W6UZ	8	9 6-m net 50.200 8am ©KF4MFL ©W4AVO
10	11 INFO-NET 7:00 pm 220 Net 8:00 pm	12 AARC PICNIC 6 PM	13 Lunch - Old Country Buffet 11-1 ©K4MWV	14 ARES Net 8:00 pm	15 ©KD4WXY ©W1FOX	16 6-m net 50.200 8am ©KE4OID
17 ©KE4YLR	18 INFO-NET 7:00 pm 220 Net 8:00 pm ©N3GLZ	19	20 Lunch - Old Country Buffet 11-1	21 ARES Net 8:00 pm	22	23 6-m net 50.200 8am ©KD4CQX
24	25 INFO-NET 7:00 pm 220 Net 8:00 pm	26	27 Lunch - Old Country Buffet 11-1	28	29	30 6-m net 50.200 8am
31		©KF4JHA		©WD4CEN	©WD4PID	



## CLUB BUSINESS

### AARC Board Meeting

Date: July 1, 1997

Present: W2PVY (presiding), KD4RWX, N4FWA, KO4WQ, KE4OID, KE4YLR

Field Day: A motion was made, modified and passed to create a Special Activities sub-committee under the Activities Committee for the purpose of year-round planning for the special operation activities: Field Day and Special Events. (The Board will establish the charge of the committee and its structure soon.) The Activities Committee Chair is Hein (N4FWA).

Joe (W2PVY) reminded the Board members and all Chairpersons of Committees to begin to write the description of their duties and functions for the purpose of providing written documentation for future officers and chairpersons.

A motion was passed that a system be put into place which ASSURES a regular monthly mowing schedule of the repeater site on Carter's Mountain.

Hein (N4FWA) recommended that the pager not be continued. There was a general agreement on this issue. A final decision will be made later.

Another call for relocating the WA4TFZ Packet Bulletin Board was made. Greg (N4PGS) has continued to run the PBBS for sometime since the last call for volunteers. The Board recommended that the PBBS be shut down as of October 31st if no new site/PBBS Control Operator has been named. Joe (KD4RWX) will initially contact Mike (AC4ZQ) to determine if he is willing to take it over. Mike currently operates his own TCP/IP packet BBS.

FYI: LeRoy Sutter (WA4MHP) sent word on a possible source of connector plugs. (Quantities and cost may be high.)

Joe (KD4RWX) plans to work with Sharon (KO4OC) to refine the Membership renewal notification process.

A future association with Search and Rescue organizations may be developed.

### AARC Regular Meeting Minutes Date: July 8, 1997

The June Minutes were approved.

The following new members were approved:

Edward Searls (WA3SMG)  
Joe Gowdey (KF4IPL)  
Andy Emert (KF4RKQ)  
Tony Moyers (KF4RKT)

Ernie (W2EIU) presented Governor George Allen's Certificate of Recognition for Amateur Radio Week (June 22-29, 1997). This is related to the 1997 Field Day exercise. Thanks Ernie.

Mike Duvall (AC4ZQ) mentioned that there is a need to relocate the WA4TFZ Packet BBS. He is in discussion with a couple of individuals. Greg (N4PGS) has a long-standing request for the PBBS to be relocated. The Board, on July 1st, voted to set an October 31st deadline to relocate this Club station or the PBBS will be shut off. Anyone wishing to volunteer to manage the PBBS should contact Mike Duvall.

Mike also passed around a sign-up sheet for mowing the Carter's Mountain repeater site. Long ago, the AARC accepted the primary responsibility for keeping the site mowed in exchange for letting the Club locate its repeaters in that excellent location. Please volunteer your services for this activity. See Mike Duvall. (Comment: One of the best views of Charlottesville can be seen along that trip. See the related story elsewhere in the August newsletter. "Lady Ham Scales Repeater Tower." p. 3)

A drawing for some equipment and books netted \$43.

Bob Ross (W2BR) donated to the AARC an MFJ-411 Pocket Code Tutor for the purpose of loaning out to persons studying to improve their code speed. Joe (KD4RWX) will manage the loaning process.

Rob (W3DX) presented a very nice program on the building of radio kits. He had nice pictures to show the specific items built and described some important considerations related to the building process. If you have access to the Internet you can find some additional information at the following URL. <http://members.aol.com/w3dx/>

If you visit this site, you will have entered the world of Heathkit Radio. Rob has developed a (*see Minutes, p. 9*)

## Minutes

(from p. 8) very nice site for information related to his activities. Check out his article "Building Your First Transceiver Kit --Ten Tips for the First Time Builder--" He has provided several links to other, more extensive Heathkit sites. If you are interested in the nostalgia of Heathkit radios, please start with Rob's Homepage. You will not be disappointed.

Some other Hams at the meeting showed items they had built, including Dennis (WR4I) and Bob (W2BR). Some of you will remember the presentation by Bob (W2BR) some months ago related to his own building experiences.

The Meeting Adjourned.

Submitted by Joseph D. Fritz, KD4RWX, Secretary of the AARC

## ALBEMARLE AMATEUR RADIO CLUB INC JULY TREASURER'S REPORT

### INCOME

Directory sales	2.00	
Donation		
Packet	5.00	
Repeater	95.00	
Surplus	<u>201.00</u>	
Total Donation		301.00
Dues		1037.50
Raffle		207.00
<b>TOTAL INCOME</b>		<b>1547.50</b>

### EXPENSES

Club banner	214.23
Refreshments	225.00
Corp fee	25.00
Entertainment (winter dinner)	31.00
Equipment	324.86
Pager service	225.60
Postage & publication	502.47****
Picnic shelter	50.00
Telephone	218.76
Class textbooks	5.00
<b>TOTAL EXPENSE</b>	<b>1821.92</b>
<b>TOTAL INCOME/EXPENSE</b>	<b>-274.42</b>
<b>BALANCE FORWARD</b>	<b><u>4067.82</u></b>
<b>TOTAL</b>	<b>3793.40</b>

\*\*\*\* Postage & publication not complete

Treasurer: Sharon Duvall, KO4OC



## CLASSIFIED COLUMN

To list an item in this section that is NOT on the WA4TFZ packet bulletin board, contact Paul, WB9HGZ or Eileen, WD9ELA.

**FOR SALE: HAM/ELECTRONIC/ANTIQUA ITEMS**  
6/29/97 Tom, W4AVU, is offering the following items for sale:

- ▶ E.F. Johnson dirctional coupler & Indicator SWR meter for \$15
  - ▶ Calrad SWR meter for \$7
  - ▶ E.F. Johnson low pass filter, 1kw, 52 homs, 45Mhz cutoff for \$25
  - ▶ Butternut model 2MVCV-5 omni, 3 section colinear gain antenna for 2 meters.
  - ▶ 12 ft of mast & cable incl for \$30
  - ▶ Mag mount 5/8 wave 2 meter antenna w/8 ft of coax for \$20
  - ▶ 40 meter diopole ant w#12 copper, insulators, 50 ft coax & balun for \$10
  - ▶ G5RV multi band 3.5-30 Mhz antenna for \$30
  - ▶ Autek Audio filter, peak, notch, lopass, hipass filter for \$25
  - ▶ 4 microphones & one desk stand for \$5 each
  - ▶ Heath grid dip meter for \$15
  - ▶ Heath condenser checker/bridge for \$15
  - ▶ Heath signal generator, 6 bands from 160kHz to 110MHz for \$10
  - ▶ Pilot FM turner. An antique which still works well for \$25
  - ▶ Military BC 946B broadcast band receiver with ac supply & S-meter for \$25
  - ▶ Webster Electric reel-to-reel recorder/player w/lots of tapes for \$15
  - ▶ RCA transistor/diode checker, type WC-506A for \$5
  - ▶ Precision tube & set checker & some tubes for \$25
- Note: practically all above have manuals & all work  
Also couple of antique telephones, headphones, caps, variable xmit caps, resistors, rf connectors, switches, meters, tubes, semis, plugs, jacks, lamp sockets, fuses, etc..  
If interested, call Tom at 971-9686 after 10 AM any day..

**FOR SALE: 2M MOBILE 7/10/97**

Don, KE4DDR, has for sale an Alinco DR112 2m mobile, 5/50 watt, 20 memories, CTCSS encode/decode. Call him at 804-978-1549

**FOR SALE: 2M MOBILE 7/18/97**

Joe, W2PVY, has for sale a Yaesu FT2400H 2 meter 50 watt mobile with manual, mike, and uninstalled tone decoder board for \$225. Call him at 804-589-1495.

**1997 ALBEMARLE AMATEUR RADIO CLUB**

**OFFICERS AND BOARD MEMBERS**

President	Bill Bearden	KC4TQF
Vice-President	Joe Giovanelli	W2PVY
Treasurer	Sharon Duvall	KO4OC
Secretary	Joe Fritz	KD4RWX
Directors:	Rick Berman	KO4WQ
	Dave Damon	KE4YLR
	Hein Hvatum	N4FWA
	Bob Pattison	K4DU
	Jessie Preston	KE4OID

**COMMITTEE LEADERS**

	<u>Committee Chairman</u>	<u>Director</u>
Activities	Hein Hvatum N4FWA	Dave Damon KE4YLR
Education	Ken Johnson WA4GHY	Bill Beardon KC4TQF
Fundraising	E.J. Bearden KD4IGX	Sharon Duvall KO4OC
Publications	Joe Fritz KD4RWX	Joe Fritz KD4RWX
Public Relations	Janie Narducci KF4NOQ	Joe Giovanelli W2PVY
		Rick Berman KO4WQ
Technical	Mike Duvall AC4ZQ	Hein Hvatum N4FWA
Youth	Noah Hillstrom, KF4JHB	Jessie Preston KE4OID

**OTHER POSITIONS**

ARRL Liaison	Bob Pattison	K4DU
ARES/RACES Coordinator	Dave Damon	KE4YLR
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 7:30PM  
 Meetings are held at the National Radio Astronomy Observatory (NRAO) building, Edgemont Road (UVa area)

**WA4TFZ REPEATERS**

<u>INPUT/OUTPUT</u>	<u>TONE ACCESS</u>
446.160/146.760	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.

Newsline program & general news

Net Control: Harry, W2HD

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

**AARC BULLETIN AUGUST 1997**



TO CORRECT LABEL INFORMATION CALL PHONE 973-1738: Your License expires.. Oct 31, 2004 D Y A  
 KA4JJD G 1997 CURRENT MEMBER

**Michael F. Rein**  
 109 Sturbridge Rd.  
 Charlottesville VA 22901