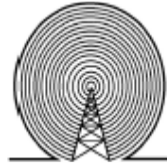


# THE HANNAH RUNNABLE NEWS



Providing Fellowship and Community Service through Amateur Radio Since 1951

December 2014

37<sup>th</sup> Year of Publication



## The Prez Sez...

December is always an exciting time at AARC.

First, we have the election coming up on December 4<sup>th</sup>. There is a good slate of officers to be voted in for 2015. The slate was published in the November News Letter. So come to the meeting to vote and meeting those who will

lead the club for the next year.

Second, is the Annual Holiday Party, on December 12<sup>th</sup>. The party will start at 06:30 pm. and as usual the club will provide the main course and members will provide side dishes, and deserts. Please contact the Party coordinator Mark Bova, W2PAW, (w2paw@w3vpr.org), or (240) 746-6294, with the number of people who will be attending the party so that the proper amount of food can be ordered and what side you will be bringing. Santa may make an appearance, so it is important that the coordinator be notified of all youngsters 12 and under by first name, sex, and age.

If you pay your 2015 AARC, dues, either prior to or at the party you will be eligible for the door prize drawing. This drawing usually includes some nice radios and other interesting prizes. See you at the party.

This will be my last Prez Sez, after three years as a Director, one year as Vice president, and two years as President, I will be stepping down. It is time to allow others to set the direction of the club. While I was President, we have accomplished several important objectives. We cleaned up the club grounds re-cycling old antennas and other trash, completed the grounding ring around the club house, and installed a full building electrical surge protection.

With your help and enthusiasm the club placed First in 2013 and Third in 2014 operating 10A for Field Day. We also placed first for having the most participants in the 2014 at Field Day.

In education we brought a large number of Technician, and General Licenses to the hobby. Along with this goes are VE's who test not only our students but others. They continue to do an excellent job.

The Public Service folks have done a superb job of providing communications for all kinds of events in the community. AARC continues to be the eyes and ears for

these events. Lots of time and effort is involved, sometimes in conditions that are less than favorable. WOW!

We have had some good equipment sales that have allowed members to recycle radio equipment.

Our presentations at the club meetings have been excellent and in some instances involving members in actual construction activities such as the recent antenna building. Others have led to great exchanges of information and others have led to exploration by groups of club members.

The most important factor is the help and cooperation of the club members we all don't do everything but most members do something. Your help has made my job easy and very enjoyable. I leave as the AARC President, knowing that you will provide the new Officers and Directors, the same help and support that you have given me. Thank You! One and All.

73 Jim Goldsberry KB3NQY



*Everyone is welcome to the  
AARC Annual Holiday Party*

*Friday, December 12, 2014 at the  
Ford Hall in the DJRC*

*Please bring a side dish to share.*

*Do not pay your years dues to be eligible  
for the drawings from Santa*

## 2015 AARC 2 Meter Net Control Schedule

Here is the 2015 AARC Two-Meter Net Controller Schedule along with a sample script for the Net Controller. Feel free to use this script, adapt it to your own liking, or use something totally different, I received this script from Chuck, K3ACT when I first started the net and it has served me well.

If something comes up when you find you will not be able to work your scheduled evening, I have found that an email out to this list has always worked in finding someone to cover.

### SAMPLE NET CONTROL OPERATOR'S SCRIPT

(*your callsign*) SCRIPT FOR AARC  
WEDNESDAY EVENING TWO-METER NET

Calling all Amateur Radio Operators. This is (*your callsign*), and the name is (*your name*), acting as Net Control for the Anne Arundel Radio Club weekly two-meter net. This net is conducted each Wednesday at 8:00 P.M., using the Anne Arundel Radio Club repeater, W3VPR, located at Davidsonville, MD. The purpose of this net is to exchange information of general interest to AARC members and other Amateur Radio Operators within reach of this repeater, and to support and advance the general welfare of the Amateur Radio community. All Amateurs are invited to participate in this net. Please state your call sign and your name when checking in. And it would help me greatly if you would give your callsign phonetically, especially if you are not a regular on this net. I believe that the North and South county repeaters are connected, so please leave a second or two after the squelch tail so the repeaters can reset.

BT

Stations with emergency or priority traffic may break in at any time. If there is any station with emergency or priority traffic, please call in now.

BT

Are there any club officers or directors who would like to check in now?

BT

OK, it's time for mobile stations to check in. And as you check in, please let me know if you wish to make an initial contact now, before driving out of range or arriving at your destination. Mobile stations, please check in now. [Take contacts, if any]

BT

OK, now it's time for fixed stations. Fixed stations, please check in now. [Record check-ins]

BT

This is [*callsign*], acting as net control for the

Anne Arundel Radio Club 2-meter net. We now will go through the list, starting with \_\_\_\_\_. [Start initial contacts]

Are there any more check-ins for the Anne Arundel Radio Club weekly two-meter net? If so, please call in now. [Take check-ins, if any]

This is [*callsign*]. Now we will go through the list again. [Start contacts]

Are there any additional check-ins or comments? [Take check-ins and comments, if any]

Hearing no further traffic, I guess it's time to wrap up this session of the net.

Thanks for participating tonight in the Anne Arundel Radio Club weekly 2-meter net, and we hope to hear you again next week, same time and same station,. Until then we'll say 73's to you all, and now we'll close the net and return the repeater to normal operations. (*your callsign*) is now clear.



## UPCOMING HAMFESTS

The new year, 2015, starts a new season. There will be more, but here's what is scheduled so far:

Post Holiday Hamfest

Sunday, January 25, 2015

Location: Odenton Volunteer Fire Department

1425 Annapolis Road

Odenton, MD 21113

Website:

<https://sites.google.com/site/marylandmobileers/hamfests-1/hamfest-2>

Sponsor: Maryland Mobileers Amateur Radio Club

Type: ARRL Hamfest

Talk-In: 146.805/146.205 (PL 107.2)

Public Contact: Bruce McPherson , AB3AC

484 Peach Leaf Court Odenton, MD 21113

Phone: 410-456-2500

Email: [bmcpherson73@verizon.net](mailto:bmcpherson73@verizon.net)



# AARC 2-Meter New Controller Schedule - 2015

|          |        |         |          |        |         |
|----------|--------|---------|----------|--------|---------|
| 01/07/15 | K3MAW  | Mike    | 07/01/15 | N3WYG  | Milford |
| 01/14/15 | KA3EPZ | Ed      | 07/08/15 | K3ACT  | Chuck   |
| 01/21/15 | K1GAF  | Giff    | 07/15/15 | KB3YQK | Tim     |
| 01/28/15 | KN2MUV | Raven   | 07/22/15 | K3MAW  | Mike    |
|          |        |         | 07/29/15 | KA3EPZ | Ed      |
| 02/04/15 | N3WYG  | Milford |          |        |         |
| 02/11/15 | K3ACT  | Chuck   | 08/05/15 | K1GAF  | Giff    |
| 02/18/15 | KB3YQK | Tim     | 08/12/15 | KB3MUV | Raven   |
| 02/25/15 | K3MAW  | Mike    | 08/19/15 | N3WYG  | Milford |
|          |        |         | 08/26/15 | K3ACT  | Chuck   |
| 03/04/15 | KA3EPZ | Ed      |          |        |         |
| 03/11/15 | K1GAF  | Giff    | 09/02/15 | KB3YQK | Tim     |
| 03/18/15 | KN2MUV | Raven   | 09/09/15 | K3MAW  | Mike    |
| 03/25/15 | N3WYG  | Milford | 09/16/15 | KA3EPZ | Ed      |
|          |        |         | 09/23/15 | K1GAF  | Giff    |
| 04/01/15 | K3ACT  | Chuck   | 09/30/15 | KB3MUV | Raven   |
| 04/08/15 | KB3YQK | Tim     |          |        |         |
| 04/15/15 | K3MAW  | Mike    | 10/07/15 | N3WYG  | Milford |
| 04/22/15 | KA3EPZ | Ed      | 10/14/15 | K3ACT  | Chuck   |
| 04/29/15 | K1GAF  | Giff    | 10/21/15 | KB3YQK | Tim     |
|          |        |         | 10/28/15 | K3MAW  | Mike    |
| 05/06/15 | KN2MUV | Raven   |          |        |         |
| 05/13/15 | N3WYG  | Milford | 11/04/15 | KA3EPZ | Ed      |
| 05/20/15 | K3ACT  | Chuck   | 11/11/15 | K1GAF  | Giff    |
| 05/27/15 | KB3YQK | Tim     | 11/18/15 | KB3MUV | Raven   |
|          |        |         | 11/25/15 | N3WYG  | Milford |
| 06/03/15 | K3MAW  | Mike    |          |        |         |
| 06/10/15 | KA3EPZ | Ed      | 12/02/15 | K3ACT  | Chuck   |
| 06/17/15 | K1GAF  | Giff    | 12/09/15 | KB3YQK | Tim     |
| 06/24/15 | KB3MUV | Raven   | 12/16/15 | K3MAW  | Mike    |
|          |        |         | 12/23/15 | KA3EPZ | Ed      |
|          |        |         | 12/30/15 | K1GAF  | Giff    |

**If you cannot take your turn as Net Control Operator, it is your responsibility to find a replacement.**

**If you would like to be used as a replacement Net Control Operator (one that is not scheduled on a regular basis but can fill in where needed) please contact Mike K3MAW.**

**This is a valuable opportunity to learn and hone your operating practices. It is also a good place to try our net equipment to learn how it would work in an 'emergency' environment.**



**AARC**  
**Slate of Officers for 2015**

**President:** Brian Mary, K3HMX

**Vice Pres:** Wayne Precht, AB3RY

**Secretary:** Jonathan Graefe, KB3ZVO

**Treasurer:** Justin Leishman, KC3BJT

**Directors: Vote for 3**

Mark Bova, W2PAW

Giff Hammar, K1GAH

Timothy Nagel, KB3YQK

**Election will be December 4, 2014**

## Free Stuff!

I'm a sucker for free stuff. Below, you'll find links to a free transistor amplifier design program, a free printed circuit board design program, and a free tutorial on antennas. All of these look to be worth a look.

### TransistorAmp 1.1

This is free software for designing bipolar transistor amplifiers. I found the link to this software (<http://en.transistoramp.de/>) on the AMRAD mailing list. Phil, M1GWZ, who posted the link, says, "A transistor circuit that I'm developing needed a 5x voltage gain stage. I could have thrown in a single op amp with split power rails and all that DIL8 real estate, but a single transistor stage would suffice. Trouble is, I'm an EE by inclination, not training, and all those calculations - working out those capacitor reactance values - well, I don't do them often enough for them to be easy. And I want voltage gain, not current. And then I found Transistor Amp 1.1."

"It's a nice piece of software," says Phil, "It installs easily and did the job for me quickly and easily. Oh, and when I built the circuit for real - voltage gain of 5x!"

[[ NOTE: A screen shot of the software that you can use for the article can be found at <http://www.kb6nu.com/wp-content/uploads/2014/11/specify-common-base-circuit.png.....Dan>]]

### Altium CircuitMaker

CircuitMaker (<http://www.circuitmaker.com>) is a free printed circuit board design tool for hobbyists, people like you and me. Maxfield Parrish of EETimes says, "one key aspect of CircuitMaker is its intuitive and easy-to-use interface -- all of the important "stuff" is presented in an easily accessible manner in a ribbon at the top of the display. Another major consideration is that Altium has decided to make CircuitMaker all about "Community," so users can easily share ideas and designs, comment on designs and offer suggestions for improvement, and generally help each other along the way."

### Free antenna tutorial

For a limited time, Rohde & Schwartz and the IEEE Communications Society are offering a free tutorial on Antenna Basics (<http://www.comsoc.org/form/tutorial-registration-antenna-basics>). This tutorial explains the basic functionality of an antenna, starting with Hertz's antenna model. It also includes a short introduction to the fundamentals of wave propagation, the important general characteristics of an antenna and parameters, such as antenna gain, radiation pattern, bandwidth or VSWR. A more detailed explanation of the functionality of some selected antenna types (e.g. dipole or

monopole) is also given.

Maik Reckeweg, Product Manager Antennas, Rohde & Schwarz GmbH, Munich, Germany, who is responsible for all the company's monitoring, measurement and communications antennas is the tutorial's.

The video is kind of dry, but I think Reckeweg does a pretty good job of discussing antenna basics. The video is also accompanied by a white paper that delves into these topics a little more completely. Overall, there's a bit more math than in most amateur radio discussions of antennas, but this makes the discussion a little more comprehensive.

Dan Romanchik, KB6NU

When not scouring the Internet for free stuff, you'll find KB6NU working on updates to his "No Nonsense" study guides, working CW on 40m, or blogging about amateur radio at [www.kb6nu.com](http://www.kb6nu.com).



## **Post Holiday Hamfest** **Sunday, January 25, 2015**

**Location:** Odenton Volunteer Fire Department  
1425 Annapolis Road, Odenton, MD 21113

**Website:**

<https://sites.google.com/site/marylandmobileers/hamfests-1/hamfest-2>

**Sponsor:** Maryland Mobileers Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 146.805/146.205 (PL 107.2)

**Public Contact:** Bruce McPherson, AB3AC

484 Peach Leaf Court

Odenton, MD 21113

Phone: 410-456-2500



## REPEATER FREQUENCIES

|                      |                     |                    |                  |
|----------------------|---------------------|--------------------|------------------|
| <b>Davidsonville</b> | <b>Millersville</b> | <b>Glen Burnie</b> | <b>Annapolis</b> |
| <b>147.105+</b>      |                     | <b>147.075+</b>    |                  |
| <b>223.880-</b>      | <b>224.560-</b>     |                    |                  |
| <b>444.400+</b>      |                     |                    | <b>442.300+</b>  |

### PL: 107.2 for all repeaters

The 147.105 and 147.075 repeaters are frequently linked. Please leave an extra second after the courtesy beep to allow the link to reset as well.

***Visitors are welcome to all meetings and nets.***

*Meetings are held in the Clubhouse at the  
**Davidsonville Family Recreation Center,**  
Queen Anne Bridge and Wayson Roads off  
MD Route 214 near Davidsonville, MD.*

*For en-route directions, make initial contact on the 147.105 repeater.*

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## Wednesday Night Talk Net -- All are welcome

8PM, On the AARC Repeater 147.105

### Other Amateur Radio nets

| Name                         | Frequency               | Day        | Time          |
|------------------------------|-------------------------|------------|---------------|
| Morning Commuter Net         | 147.105+    PL 107.2    | Weekdays   | 0600          |
| AA County ARES Net           | 146.805-Mhz    PL 107.2 | Sunday     | 2000          |
| Baltimore Traffic Net        | 146.670-Mhz             | Daily      | 1830          |
| Maryland Emergency Phone Net | 3.820Mhz                | Daily      | 1800          |
| MD-DC-DE Traffic Net         | 3.557Mhz                | Daily      | 1900 and 2200 |
| Maryland Mobileers Net       | 146.805    PL107.2      | Monday     | 1930          |
| Maryland Slow Net            | 3.563 MHz               | Daily      | 1930          |
| REACT Net                    | 442.300+Mhz    PL107.2  | 1st Sunday | 1930          |



# Anne Arundel Radio Club, Inc.

Anne Arundel Radio Club, Inc.  
P.O. Box 308  
Davidsonville, MD 21035

First Class Mail

